UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICIAL BUSINESS

Secretary to Operating Committee
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE $300
(PMGC)

Docket Copy

RECEIVED
OCT 28 1956

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 5

It is agreed this 22nd day of August, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-2453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading "Estimated Costs of the Project," the items of Diamond Drilling under the subheading "Agreed Unit Costs" are revised to read as follows:

Area Southeast of Pit 3 holes, 1162 ft. @ $5.02 per ft.	$ 5,833.24
North Tunnel Area 2 holes, 951 ft. @ $4.10 per ft.	3,899.10
Heneessey Creek Area 2 holes, 586 ft. @ $5.10 per ft.	2,988.60
Airport-Scout Ridge Area 4,149 ft. @ $4.73 per ft.	19,624.77
Driving pipe on surface for drill holes 862 ft. @ $9.00 per ft.	7,758.00
Reaming and casing drill holes 925.77 ft. @ $2.65 per ft.	2,453.29
Total	$42,557.00

The Government will contribute to the costs of the above-specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs.

These unit costs include all costs of the work whatsoever except those actual costs scheduled hereinafter.

* * * * * *

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum", nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. P. Mitchenson
Administrator, Defense Minerals
Exploration Administration

Corbin
Hoffhund
"Appd. Sol. Off."
Ching
Ellis
Talbutt
Selfridge
H. Johnson 10/14/55

BRADLEY MINING COMPANY

By James P. Bradley
Vice President

Docket copy

RECEIVED
FEB 10 1955

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMRA-2636

AMENDMENT NO. 4

It is agreed this 7th day of January, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-12453 (Docket No. DMRA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

1. In Article 3 of the contract, the period for completion is extended from "24 months" to "33 months." (Amendment No. 1 extended the period from "14 months" to "24 months.")

2. In Article 9 of the contract, as amended by Annex II to Amendment No. 2, substitute the period "twelve years" for the period "ten years."

3. In Article 10 of the contract, that part of the second sentence beginning with the word "Provided" is deleted.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum," nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

RECEIVED
JAN 31 1955
U. S. G. S.
SPOKANE

By C O Mitteauer
Administrator, Defense
Minerals Exploration
Administration

Boston
Hoffman
Ching
F Thomas
Talbott
Selfridge
F E Johnson

BRADLEY MINING COMPANY

By John D Bradley

Docket copy

Defense Minerals Exploration Administration
OCT 22 1954

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 3

It is agreed this 1st day of October, 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-2453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract add the letter "E" after the letter "D" and add "Geologic map of Scout Ridge Area" before the words "attached hereto and made a part hereof."

2. In Annex I add the following claims:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
Meadow Quartz No. 13	12	490
Meadow Quartz No. 14	12	491
Meadow Quartz No. 15	12	493
Meadow Quartz No. 16	12	494
Meadow Quartz No. 17	12	473
Meadow Quartz No. 18	12	475
Meadow Quartz No. 19	12	510
Meadow Quartz No. 20	12	509
Meadow Quartz No. 21	12	508
Meadow Quartz No. 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14, and 15, T. ~~16~~ 18 N., R. 9 E., Boise Meridian, Valley County, Idaho.

3. In Exhibit "A" under the heading "Description of the Work" delete the word "four" in the third line of the first paragraph and substitute the word "five."

4. In Amendment No. 2, item 3, add "and Exhibit 'E'" after the words "Exhibit 'B'" in lines two and four of the paragraph in quotes.

5. In Exhibit "A" under the heading "Estimated Costs of the Project, subheading "Agreed Unit Costs," add "and Scout Ridge Area" after the words "Stibnite Airport Area."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Administrator, Defense Minerals
Exploration Administration

Hoffhund

Ching
Chamberlin
Selfridge
Ellis

BRADLEY MINING COMPANY

By John D. Bradley

Docket Copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 2

It is agreed this 21st day of August, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company, that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract, delete Exhibit "C" and the title thereof, and substitute Exhibit "D" entitled "Bradley Mining Co. - Map of Central Area - Yellow Pine Property," attached hereto.

2. In Annex I, delete the claims C.D.H. Nos. 1 through 9, inclusive, and delete Section 27 referred to in the first paragraph; and add the following claims, located in Sections 15 and 16, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho, owned by the Operator:

Patented Claims	Patent No.
Meadow Creek No. 1	974,550
" " No. 4	974,550
" " No. 5	974,550

Unpatented Claims	Book	Page
Meadow Creek No. 6	6	228
" " No. 11	6	232
" " No. 12	6	233
" " No. 16	6	234
Meadow Quartz No. 1	6	237
" " No. 2	6	238
" No. 5	6	240
" " No. 6	6	241
" " No. 7	6	248
" " No. 8	6	249
" " No. 9	12	487

Note: Five of the above-listed claims are also included in Contract Idm-E173 (DMEA Tunnel Project), namely:

Meadow	Creek	No. 1
"	"	No. 4
"	"	No. 5
"	"	No. 6
"	"	No. 11

3. In Exhibit "A," under the heading "Description of the work," delete the second sentence of the first paragraph and substitute the following sentences:

> "The proposed drill holes are shown on the map Exhibit 'B,' and in part on the map Exhibit 'D.' The drill holes shown on the map Exhibit 'B' may be changed as to number, location, direction, or depth as a result of new data obtained in the drilling program, subject to prior Government approval. The approximate position of the first drill hole only is shown on the map entitled Exhibit 'D,' and may be changed with Government approval; the number, location, direction, and depth of additional drill holes in the area outlined in Exhibit 'D' will depend upon the results of the first hole and are subject to prior Government approval."

4. In Exhibit "A," under the heading "Estimated Costs of the Project," subheading "Agreed Unit Costs," delete the first item, "C.D.H. Group of Claims," and substitute "Stibnite Airport Area."

5. Annex No. II, attached hereto and made a part hereof, is substituted for that part of Article 9(a) which precedes the colon.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C O Mittendorf
Robin Hoffman Chamber
Administrator, Defense
Minerals Exploration
Administration

BRADLEY MINING COMPANY

By John D Bradley

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. [illegible]-2036

ANNEX [illegible]

The following provisions are in lieu of all of paragraph (a) of Article [illegible] which precedes the colon:

If the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after a sufficient, complete, final report and final account referred to in the contract has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development, The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

(Amendment to Change Starting and/or Completion Dates)

AMENDMENT NO. 1

It is agreed this 15th day of December 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration and Bradley Mining Company, 425 Crocker Building, San Francisco, California

(Yellow Pine - Docket DMEA-2636)

each acting in consideration of the agreement to the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E453 dated November 25, 1952 between the parties hereto be modified and amended to change the starting date from 60 (No. of days) to within 180 (No. of days) of the date of the contract and the completion period from 14 (No. of months) to 24 (No. of months) from the date of the contract. The effective date of this amendment shall be December 15, 1952.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region II, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum".

Executed in sextuplicate the day and year first above written.

Bradley Mining Company
(Operator)

By John D. Bradley

THE UNITED STATES OF AMERICA

By A. E. Weissenborn
A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

Bradley Mining Company
Exploration Project Contract Idm-8453
Docket [illegible]-2630

Justification for Amendment No. 1

This amendment is necessary because the Operator is unable to commence work according to terms of the contract owing to winter weather conditions. The contract has therefore been amended to extend the starting date for a period of six months. The completion date of the contract has also been extended to six months.

MF-200
(June 1951)
(Revised Feb. 1952)

Doc[illegible] No. DMEA [illegible]

COMMODITY [illegible]

Docket Copy

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

EXPLORATION PROJECT CONTRACT [1]

IT IS AGREED this 25th day of November, 195[illegible], between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] [illegible]

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of [illegible], County of [illegible], described as follows: [3] [illegible]

the Operator represents and undertakes: [4]

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: [illegible]

(*b*) ~~That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lease is attached.~~

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within [illegible] days from the date of this contract shall commence work on a project of exploration for [5] [illegible]

in or upon the described land; and shall bring the project to completion within a period of [illegible] from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following:

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related ~~initial~~ allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A." All of these items are allowable maximums.

(7) *Miscellaneous.*—Repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance and payroll taxes.

(8) *Contingencies.*—Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A," as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay [illegible] percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $[illegible], which is [illegible] percent of $[illegible], the agreed, estimated total cost of the project in which the Government will participate; *Provided,* that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* ....

....

....

....

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. O. Mittendorf

Administrator, Defense Minerals Exploration Administration

[illegible]
(Operator)

By John D Bradley

I, ______________, certify that I am the ______________ secretary of the corporation named as Operator herein; that ______________, who signed this contract on behalf of the Operator, was then ______________ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

....

[CORPORATE SEAL]

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

ANNEX I

The property referred to in Article 2 consists of the following patented and unpatented lode mining claims, located in Sections 3, 10, and 27, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho.

Patented Lode Mining Claims

Claim	Patent No.
Hennessey No. 2	1,111,588
" No. 3	"
" No. 4	"
" No. 5	"
" No. 6	"
Homestake No. 5	
Monday No. 2	1,120,542
" No. 3	"
" No. 6	"

Unpatented Lode Mining Claims
Recorded at County Seat at Cascade, Idaho

Claim	Book	Page
Monday No. 1	6	210
" No. 4	6	213
" No. 5	6	292
" No. 7	6	215
" No. 8	6	293
" No. 9	6	216
" No. 10	6	217
" No. 11	6	218
" No. 12	6	219
" No. 13	6	294
" No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208
M. W. No. 1	12	504
M. W. No. 2	4	503
A No. 2	12	472
" No. 4	6	202
" No. 5	12	479

Claim	Book	Page
A No. 6	6	204
" No. 7	12	481
C.D.H. No. 1	12	460
" No. 2	12	461
" No. 3	12	463
" No. 4	12	464
" No. 5	12	465
" No. 6	12	467
" No. 7	12	468
" No. 8	12	469
" No. 9	12	470

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

EXHIBIT "A"

Description of the Work

The object of this work is to explore for antimony ores by diamond drilling from the surface and underground an estimated 6,500 feet in four areas known to be geologically favorable. The proposed drill holes are shown on the maps, Exhibits "B" and "C" but with Government approval, their number, location, direction or depth may be changed as a result of new data obtained in the drilling program.

The diameter of the drill holes will depend on the character of the ground, but will at all times be sufficient to provide the geologic information required. Sites for the location of the drill for surface holes will be prepared by bulldozer.

Estimated Costs of the Project
(*Indicates allowable maximum)

AGREED UNIT COSTS

Diamond Drilling

C.D.H.Group of Claims				
4 holes	3,000 ft. @ $4.73 per ft.	$14,190.00		
Area South East of Pit				
4 holes	1,500 ft. @ $5.02 per ft.	7,530.00		
Hennessey Creek Area				
1 or 2 holes	500 ft. @ $5.10 per ft.	2,550.00		
North Tunnel Area				
3 holes	1,500 ft. @ $4.10 per ft.	6,150.00		
Driving Pipe on surface				
for drill holes	215 ft. @ $9.00 per ft.	1,935.00		
Reaming and Casing				
drill holes	3,850 ft. @ $2.65 per ft.	10,202.00	$42,557.00	

The Government will contribute to the costs of the above specified work on the basis of the above agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

(1) Independent Contracts

None

(2) Labor, Supervision, Consultants

Technical services		$ 1,000.00 *
Consultants		1,150.00*

(3) Operating Materials and Supplies

1500 ft. 1-inch pipe	$270.00	
500 ft. 2-inch pipe	225.00	
4000 board ft. lumber	300.00	
500 ft. ½-inch cable	95.00	
Miscellaneous nails, wire, wrenches, etc.	100.00	
200 drill core boxes	800.00	1,790.00

(4) Operating Equipment

To be furnished by Operator

1 - Compressor, 315 cfm Value $10,800.00 (Depreciation allowed for actual time used not to exceed two months)	360.00 *

(5) Rehabilitation and repairs

None

(6) New Buildings, Improvements, Installations

Drill site preparation for surface holes, 20 days caterpillar work including labor, supplies, maintenance, at $64.00 per day	1,280.00 *

(7) Miscellaneous

Analytical Work	$1,325.00	
Accounting	500.00	1,825.00

(8) Contingencies	3,038.00
Total Estimated Cost of the Project	$53,000.00*
Government Participation @ 75%	$39,750.00*

DMA Fo[illegible]1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2636

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION PROJECT

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip **Copies to USBM and USGS. One copy retained by Region II.**

To:	Code 700, Rm. 4640	Date	7-31-52
To:	Open Com	Date	11-24-52
To:	Open Com	Date	1-6-55
To:	Open Com	Date	8-18-55
To:		Date	
To:		Date	
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CONTROLLED DOCUMENT

700

FILE COPY
Surname:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.

JUL 27 1956

Mr. John D. Bradley
Executive Vice President
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Bradley:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/gla/izm 7-24-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching
Mr. Johnson
Contract Adm. & Audit Div.
DMEA Field Team, Reg. I, NW Dist. (2)

R.C.S.

Docket Copy
700
Ilkuom

Project Summary Report

By: Michael Ching Date: July 24, 1956

1. Docket No. DMEA-2636
   Contract No. Idm-E453

   Operator - Bradley Mining Company, a California corporation
   1022 Crocker Building
   San Francisco 4, California

   Property - Yellow Pine Mine, consisting of 12 patented and 43 unpatented lode mining claims as follows: Patented claims Hennessey Nos. 2-6, Homestake No. 5, Monday Nos. 2, 3, and 6, Meadow Creek Nos. 1, 4, and 5. Unpatented claims Monday Nos. 1, 4-5, 7-14, S. J., S. J. No. 2, M. W. Nos. 1-2, A Nos. 2, 4-7, Meadow Creek Nos. 6, 11-12, 15, 16, and Meadow Quartz Nos. 1-2, 5-10, 13-21, 27; all in secs. 3, 10, 15, and 16, T. 18 N. R. 9 E., B.M.&B., Valley County, Idaho.

   Operator's Property Rights - Operator is the owner. The contract states that the Subordination Agreement of United Mercury Mines Co., holder of a 5% royalty claim, is attached, but no such agreement is in the files. In a letter dated Jan. 15, 1953, A. E. Weissenborn sent copies of a Guaranty to the Operator for signature, but there is no evidence in the files that a Guaranty was supplied. A rough memo, dated Nov. 12, 1952, by F. S. Schmidt indicated that the Operator's financial standing, stability and integrity can be considered a sufficient guarantee.

2. Contract - dated November 25, 1952 (Long Form)

   Work Authorized (As Amended):

Agreed Unit Costs - Diamond Drilling		
Area Southeast of Pit, 3 holes, 1162 ft. @ $5.02/ft.	$5,833.24	
North Tunnel Area, 2 holes, 951 ft. @ $4.10/ft.	3,899.10	
Henessey Creek Area, 2 holes, 586 ft. @ $5.10/ft.	2,988.60	
Airport - Scout Ridge Area, 9 holes, 4149 ft. @ $4.73/ft.	19,624.77	
Driving pipe on surface, 862 ft. @ $9.00/ft.	7,758.00	
Reaming and casing drill holes, 925.77 ft. @ $2.65/ft.	2,453.29	
TOTAL		$42,557.00

Actual Costs

Labor, supervision, consultants	$2,150.00	
Operating materials, and supplies	1,790.00	
Operating equipment	360.00	
Installations	1,280.00	
Miscellaneous	1,825.00	
Contingencies	3,038.00	
TOTAL		$10,443.00

Estimated Total Cost of Project $53,000.00
Government Participation @ 75% $39,750.00

Amendments

No. 1 - dated December 15, 1952. Extends starting date from 60 to 180 days, and completion date from 14 months to 24 months from date of contract.

No. 2 - dated August 21, 1953. Deleted map (Exhibit C) and substituted map (Exhibit D). In Annex I deleted the C.D.H. claims in sec. 27 and added 7 Meadow Creek and 7 Meadow Quartz claims in secs. 15 & 16, T. 18 N., R. 9 E. In Exhibit "A" amended the description of the work and under "Agreed Unit Costs" deleted the "C.D.H. Group of Claims" and substituted the "Stibnite Airport Area." Substituted Annex No. II for that part of Article 9(a) preceeding the colon.

No. 3 - dated October 1, 1954. In Article 2 added "Exhibit E, Geologic map of Scout Ridge Area." In Annex I added 1 Meadow Creek and 11 Meadow Quartz claims in secs. 10, 11, 14, and 15, T. 18 N., R. 9 E. In Exhibit "A" amended description of the work by increasing areas to be explored from four to five and adding map (Exhibit E) to map (Exhibit B). Under "Agreed Unit Costs" added "Scout Ridge Area" to "Stibnite Airport Area."

No. 4 - dated January 7, 1955. Completion period extended from 24 months to 33 months. Repayment period extended from 10 years to 12 years. In Article 10 that part of 2nd sentence beginning with the word "Provided" is deleted.

No. 5 - dated August 22, 1955. "Agreed Unit Costs" under Exhibit "A" revised as in "Work Authorized," above.

Work Completed

Agreed Unit Costs - Diamond Drilling

Area Southeast of Pit - as authorized above	$5,833.24	
North Tunnel Area - " " "	3,899.10	
Henessey Creek Area - " " "	2,988.60	
Airport - Scout Ridge Area " "	19,624.77	
Driving Pipe - " " "	7,758.00	
Reaming & Casing, 919 ft @ $2.65/ft.	2,435.35	
TOTAL		$42,539.06

Actual Costs

Labor, supervision, consultants	$2,150.00	
Operating materials, and supplies	514.00	
Operating equipment (depreciation)	301.94	
Improvements and installations	1,014.43	
Miscellaneous	2,631.14	
Contingencies	1,873.87	
TOTAL		$8,485.38
TOTAL		$51,024.44

The project work was started in June, 1953 and completed in August, 1955. A total of 16 holes totaling 7,710 feet were drilled. Two of the holes were drilled from underground in the North Tunnel.

3. Audit Report

Total Cost as Billed by Contractor	$50,842.91
Additional Costs Allowed	181.53
TOTAL	$51,024.44
Exceptions	None
Total Accepted Cost	$51,024.44
Government Participation @ 75%	$38,268.33

4. Certification of Discovery - None

5. Results and Comments:

The Operator conducted all phases of the project in a competent manner. Considerable delays were met but these were due almost entirely to long severe winters and the fact that most of the work was done on the surface.

Quartz monzonite and related rocks of the Idaho batholith, locally containing large roof pendants of metamorphosed sedimentary rocks, are the principal rocks of the area. Intense and widespread faulting has been accompanied by much shearing in the quartz monzonite. Dikes of basalt, quartz latite prophyry, trachyte, and rhyolite were intruded after the main faulting.

The main ore bodies at the Yellow Pine and Meadow Creek mines occur along the Meadow Creek fault, a shear zone as much as several hundred feet wide, at points where there are northeast-striking branch faults.

The subject exploration was largely directed toward exploring such fault intersections. Three holes in the Area Southeast of Pit

were drilled to test the Home Stake fault. Only minor amounts of gold, stibinite and antimony were present. Two holes in the Henessey Creek Area were drilled in search of the intersection of the "L" and Meadow Creek faults. No intersection was found and both holes were essentially barren. Two underground holes in the North Tunnel Area were designed to test theintersection of the Fiddle Creek and Meadow Creek faults, but no intersection and no worthwhile mineralization were found.

Three holes were drilled in the Airport Area but they appear to be too far east to locate any ore body that might lie at the intersection of any northeast-striking fault and the Meadow Creek fault. Zones of altered granite containing minor amounts of gold and antimony were present in two holes, and one hole was barren.

Six holes were drilled some 4,000 feet east of the Meadow Creek Fault, in the Scout Ridge Area. Three were barren. One cut a zone 30-35 feet thick averaging 0.109 ounce gold per ton and 0.61% antimony. Another cut a 30-foot zone averaging 0.115 ounce gold per ton and 1.62% antimony. The sixth hole cut a 5-foot zone that assayed 2.60% antimony. This was the most encouraging area explored but it is very unlikely that the material found could be mined economically by underground methods. A certification of discovery is not recommended.

Because mineralization is widespread in the area and geological condidtions are favorable for ore deposits it is probable that minable ore bodies exist in the area. Further work by the Government is not warranted unless better targets are established by additional geological investigations.

Michael Ching

Michael Ching

RECEIVED
MAY 28 1956

XXXXXXXXXXXXXXXXXX
1201 N. Division Street
Spokane 2, Washington
May 24, 1956

Mrs. Myrtle Purdy, Certifying Officer
DMEA Field Team, Region I, NW District
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA 2636
Contract No. Idm-E453
Bradley Mining Company

Dear Mrs. Purdy:

Work under the subject contract has been completed to the satisfaction of the Government. A final report evaluating the results of the exploration program has been presented by the Operator and accepted by the Executive Officer.

A Certification of Discovery or Development covering this project will not be recommended by the Field Team.

A final audit certificate and report by DMEA Auditor C. A. Turner has been received.

As all contract requirements have been met, it is requested that final settlement of our account with the Operator be made.

Sincerely yours,

cc: DMEA (2)
USGS (2)

Wing G. Agnew, Acting Exec.
Officer, DMEA Field Team,
Region I, NW District

RECEIVED
MAY 25 1956
U. S. G. S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 28 1956

So. 157 Howard Street
Spokane 4, Washington

May 24, 1956

Bradley Mining Company
Room 515
660 Market Street
San Francisco, California

Re: Docket No. DMEA-2636 (Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Gentlemen:

Enclosed are copies of the Audit Certificate and the Audit Report for the period November 25, 1952 to August 31, 1955, for your information and files.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Turner
Kellum

Talbert

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Audit Report
IAm-E453, DMEA-2636
Bradley Mining Company

Dear Mr. Turner:

The final Audit Report and Audit Certificate covering the referenced project is acceptable and normal distribution is authorized.

For your guidance in the preparation of future audit reports, I wish to call your attention to a relatively unimportant error in cost distribution. In this report you transferred accounting costs from category (7) Miscellaneous, as properly reported by the Operator, to category (2) Labor and Supervision. Article 6 (a) of the contract specifies that category (7) includes accounting. Also, page 3 of the Contract Interpretation Guide, which follows page 21 of the audit manual, indicates that accounting is classified under category (7).

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

EDTalbert/wb
May 17, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 27 1956

April 25, 1956

Mr. K. G. Wallace, Assistant Manager
Bradley Mining Company
Stibnite, Idaho

Re: Docket No. DMEA-2636 (Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-8453

Dear Mr. Wallace:

This will acknowledge receipt of your final report on the diamond drilling exploration project carried out under Contract Idm-8453.

The report is considered acceptable under the terms of the contract, and as soon as the audit is completed, settlement of your account can be made.

By Field Team, Region I, NW Dist.

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2)
USGS (2)
USBM (AD)
Nicholson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 27 1956

April 25, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

Enclosed are the original and one copy of the Operator's final report on a completed diamond drilling project at the Yellow Pine mine.

The Field Team's final report was submitted to Washington January 24, 1956.

By Field Team, Region I, NW Dist.

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure 1 (in dupl.)

cc: USBM (2)
USBM (AD)
Nickelson

RECEIVED
APR 27 1956

FINAL REPORT

By The

BRADLEY MINING CO.

To The

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No. DMEA-2636 (Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E 453

By K. G. Wallace

April 7, 1956

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APR 19 1956
U. S. G. S.
SPOKANE, WASH.

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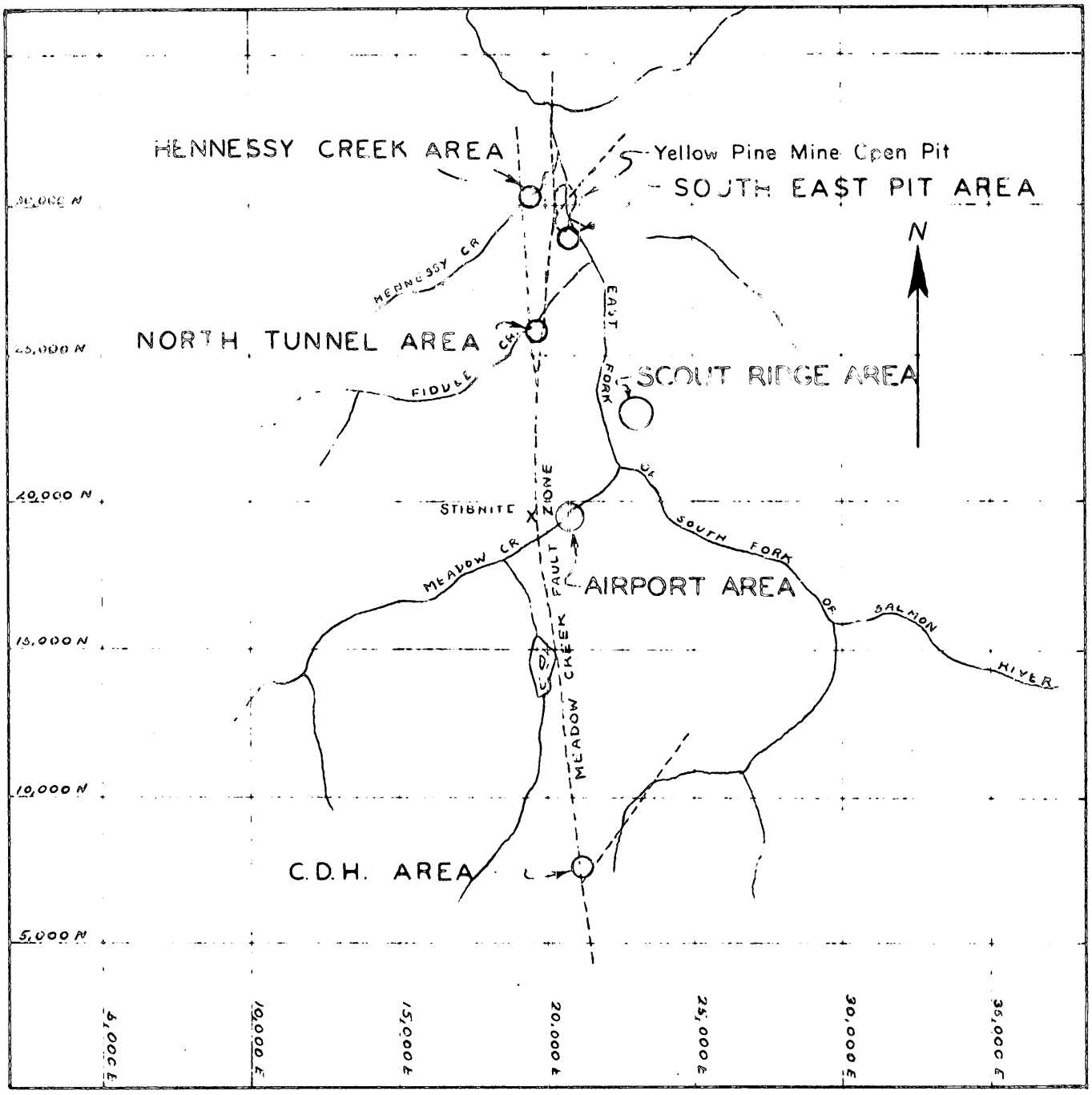
APR 27 1956

INDEX MAP

STIBNITE DRILLING PROGRAM

D.M.E.A. CONTRACT IDM-E453



SCALE

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APR 27 1956

Summary

Several areas in the vicinity of Stibnite, Idaho, were explored by diamond drilling. The work was primarily intended as an exploration project for antimony, but it was believed opportunities for finding tungsten and gold should also be good.

Work on the project started in June 1953 and was completed in August 1955.

Sixteen holes totaling 7710 feet were drilled. Five areas were prospected. The maximum allowable contract cost of the project was $53,000.00. The total allowable cost as approved by the D.M.E.A. was $50,842.91. The government paid seventy-five percent of the approved allowable cost, or $38,132.19.

In only one of the areas drilled (the Scout Ridge area) were results encouraging. Even in this area, however, no ore reserves were developed.

Objectives of Exploration Project

The project was based on recommendations made by consulting geologist Carlton D. Hulin. Four areas considered favorable for the occurrence of antimony and gold, and possibly tungsten, were proposed to be diamond drilled. The areas were believed to be promising primarily on the basis of structural intersections along the major north-south Meadow Creek fault zone. Dr. Hulin's theory of vertical zonal distribution of ore minerals in the area was also an important factor in the selection of favorable targets for exploration.

The four areas to be explored were (1) the C.D.H. area; four miles south of the Yellow Pine Mine open pit; (2) the North Tunnel area about one-half mile south of the open pit; (3) the Southeast of Pit area, adjacent to the open pit; and (4) the Hennessy Creek area several hundred feet west of the open pit. All of these areas are along or near the Meadow Creek fault zone, and all are in areas of supposed intersections of cross-structures with the Meadow Creek fault zone.

The North Tunnel area was to be drilled from underground in the North Tunnel. The other three areas were to be drilled from the surface.

After some of the drilling was completed in other areas it was decided not to do the drilling in the C.D.H. area. Instead, the drilling footage allocated for the C.D.H. area was transferred to the Airport area. Later, additional footage was authorized for another area, the Scout Ridge area (in the exploration contract this area was combined with the Airport area and the name "Airport-Scout Ridge Area" was applied to both.

The decision to drill the Airport and Scout Ridge areas rather than the C.D.H. area was based on several factors. The exploration along the Meadow Creek fault zone in the first areas drilled did not locate ore. Also, to a very great extent the program in the C.D.H. area was based on a theory of vertical epithermal zoning of metals deposition. This theory was becoming suspect as a result of the lack of demonstrable support for it in earlier drilling. Reappraisal of the geology of the entire area led to the belief that perhaps shear zones parallel to the Meadow Creek fault zone might be equally as important structural controls of ore deposition as the Meadow Creek fault itself. The results of the drilling in the Scout Ridge area, some 4000 feet east of the Meadow Creek fault, in part at least later justified the change of exploration targets.

Contract Provisions

The exploration contract, dated November 25, 1952, provided for drilling in the various areas at a flat unit cost per foot of drilling, with a different unit cost for each area (ranging from $4.10 per foot in the North Tunnel area to $5.10 per foot in the Hennessy Creek area). Pipe driving through overburden and reaming and casing were also reported on a unit cost basis ($9.00 and $2.65 per foot, respectively). The total estimated allowable cost of the unit cost part of the contract was $42,557.00. Such items as technical services, consultants' fees, drill site preparation, assaying, etc., were provided for with an additional contract amount of $10,443.00.

The total allowable cost of the project was $53,000.00. The total estimated drill footage was 6500.

Although several amendments were made to the contract, none changed the total allowable cost of the project. However, additional drilling beyond the 6500 feet specified in the contract was allowed, within the total maximum contract cost of $53,000.00.

Work Done

Drilling under the contract started in June 1953. Most of the drilling was done during the summer and fall months of 1953 and 1954. The project was completed in August 1955.

The Southeast of Pit area was first drilled with three holes totaling 1162 feet of drilling.

Next, the Hennessy Creek and North Tunnel areas were drilled. Two holes were drilled on Hennessy Creek; total footage was 636. Two holes were drilled from underground in the North Tunnel; total footage was 951.

Three long holes were drilled in the Airport area. Exceptionally deep overburden was encountered in this drilling -- one hole was in overburden 273 feet before reaching bedrock. The total length of the three holes was 2200 feet.

Six holes were drilled in the Scout Ridge area. One of these holes failed to reach bedrock; it was stopped at 174 feet while still in overburden. Drilling at Scout Ridge totaled 2761 feet.

During the three-year life of the exploration project sixteen holes were drilled, totaling 862 feet of pipe driving and 6848 feet of drilling, or a total footage (both pipe driving and drilling) of 7710 feet.

With the exception of the last two holes in the Scout Ridge area, which were drilled by the Bradley Mining Co., all drilling was done under contract by the Nichols and Thompson Core Drilling Co. of Boise, Idaho.

Project Costs

The total of all allowable costs of the project as approved by the D.M.E.A. was $50,842.91. The government paid seventy-five percent of this total, or $38,132.19.

The actual total cost of the project (including costs not allowable under the contract) was $58,572.87. Thus the government paid for 65.1 percent of the actual total cost of the project.

The overall actual average unit cost of the drilling was $7.60 per foot. This average cost includes the costs of pipe driving, drill site preparation, assaying, engineering, and all other fringe costs as well as those costs directly attributable to the actual drilling.

Project Results

Other than moderately encouraging results in the Scout Ridge area, all of the areas drilled proved to be virtually barren.

All three holes in the Southeast of Pit area cut wide zones of alteration and brecciation, with accompanying very low grade antimony-gold mineralization. One of the holes cut an apparently isolated area of antimony (stibnite) mineralization 15 feet wide averaging 2.10 percent antimony.

Other than some areas of altered quartz monzonite carrying minor antimony-gold mineralization, nothing of interest was found in the Hennessy Creek drilling.

The first hole drilled from the North Tunnel disclosed low antimony-gold values throughout most of its length. The highest assays were 0.29 percent antimony and 0.050 oz/ton gold. Wide areas of intensive alteration were found in the first part of the hole. The second hole was in essentially unaltered rock for most of its length, with only traces of antimony and gold present.

None of the three Airport area holes encountered rock of commercial grade. The first two holes cut rather extensive sections of very lean gold mineralization and minor antimony in altered quartz monzonite. The third hole cut only a few narrow patches of altered quartz monzonite.

Four of the six Scout Ridge holes cut a mineralized shear zone trending north-south along the east flank of Scout Ridge. The zone was traced for a distance of 800 feet. The target of this drilling was a wide sheared and altered zone in quartz monzonite having an inner core of metalization about 35 feet wide and averaging 0.81 percent antimony and 0.066 oz/ton gold. These metal values are considerably lower than would be necessary for the zone to be attractive commercially.

Ore Reserves

No ore reserves were developed as a result of this exploration project.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

RECEIVED
APR 9 - 1956

1201 N. Division St.
Spokane 2, Washington
March 29, 1956

Mr. B. F. Mahoney, Manager
Bradley Mining Company
Bradley Field
Boise, Idaho

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mr. Mahoney:

Mr. Charles A. Turner, DMEA auditor, accompanied by Mr. Bardill, will plan to make a review of the agreed unit cost portion of the subject contract and an audit of the actual costs early in April.

Since it is our understanding that your guest and boarding houses are temporarily closed, we suggest that it might be more convenient for all concerned to have your accountant meet Mr. Turner in Boise with his records. Normally, Mr. Turner would go to Stibnite for the audit. Subject to your approval, he will tentatively plan to be in Boise by noon, April 9, at the Boise Hotel. If this suggestion does not meet with your approval he will plan to fly to Stibnite the following day, subject to weather conditions. Mr. Bardill will accompany him to assist in answering any technical questions which may arise.

Mr. Turner will require the following records to support claims made on Monthly Voucher Forms MP-104:

(2) <u>Labor and Supervision</u>

Monthly payrolls supported by individual time cards which indicate the shifts worked, location of work, classification and rate of pay.

Work sheets indicating method of proration between the DMEA work and other mining activities.

Consultants and technical service for labor not on Bradley payroll to be supported by invoices or other means of presenting their claims.

(3) Operating Materials and Supplies

To be supported by vendors' invoices, the store's withdrawal records for items used, and method of proration on prorated items.

(4) Depreciation

To be supported by record of time used.

(5) Initial Rehabilitation and Repairs

None.

(6) New Buildings, Improvements, Installations

To be supported by labor and supply items.

(7) Sampling and Analysis

To be supported by an analysis of this account, similar to the one supplied for Contract Idm-E173.

Accounting

To be supported by payroll items.

(8) Preparatory Work

To be supported by labor and supply items.

Other items needed

Cost ledger.
Employer's quarterly federal tax returns.
State of Idaho Employment Security Reports.
State of Idaho Insurance Fund Policy and Reports; or if insured by private company, the insurance company policy and report of premiums paid.
Wage schedules.

Please advise whether you prefer to have your accountant meet Mr. Turner in Boise or have him go to Stibnite, and whether the 9th of April is a convenient date.

Sincerely yours,

Wing O. Agnew
Acting Executive Officer
DMEA Field Team, Region I
Northwest District

cc: Bradley Mining Company
1022 Crocker Bldg.
San Francisco, Calif.

DMEA (2)--USGS (2)--Turner

2/17/56 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
FEB 17 1956

February 16, 1956

Memorandum

To: E.W. Ellis, Defense Minerals Exploration Administration

From: Abbott Renick, Branch of Base Metals

Subject: Review of Field Team Final Report on the Bradley Mining Company's Yellow Pine Mine, Valley County, Idaho, DMEA Docket 2636 (Antimony)

The purpose of the project was to diamond drill on the Yellow Pine property hoping to find minable bodies of stibnite and scheelite ore.

The contract was approved November 25, 1952 for about $53,000.00, of which approximately $50,850.00 was expended with the Government participating in 75 percent of that amount.

The writer concurs with the Field Team Final Report of Messrs. John D. Bardill, Metallurgist, Bureau of Mines, Verne C. Fryklund, Jr., and Donald F. Kellum, Geologists, U. S. Geological Survey, dated January 1956 recommending:

> "No Certification of Discovery or Development should be made. The area is worthy of further exploration, but Government participation is warranted only if new geologic evidence is presented that indicates the presence of new ore bodies on the property or in the Yellow Pine area."

Abbott Renick

Abbott Renick

Copy to Division of Minerals
R.W. Geehan, Room 3608
T.H. Kiilsgaard, Room 5224
Branch of Base Metals (2)
FILES

Invoice

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 15 1956

AIR MAIL

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Contract Idm-2453
Docket No. DMEA-2636
Bradley Mining Company

Dear Mr. Turner:

By letter dated February 6, 1956, I requested advice from you as to your audit plans relative to contracts Idm-2173 and Idm-2427 with the Bradley Mining Company. Since writing that letter there has come to my attention the need for an audit of another contract with this Operator, i. e., contract Idm-2453.

A recently received Field Team Final Report states that this project was completed during August 1955. Prior to receipt of this report I was not aware that the project had been completed inasmuch as the last MF-104 received in this Division covers December 1954 work and your Monthly Work Load Reports have not programmed an audit.

Please advise me in regard to your audit plans for this contract.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

EDTalbert/wb
February 15, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers

R.G.L.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

February 6, 1956

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team Final Report on the Bradley Mining Company's Yellow Pine Mine, Valley County, Idaho, DMEA Docket 2636 (antimony).

A diamond drilling exploration program, consisting of 16 holes and totaling 7,710 feet of drilling, has been completed at the Yellow Pine mine. The drilling results were negligible and the Field Team recommends that no Certificate of Discovery or Development be issued to the operator.

I concur with the Field Team's recommendations. As described on page 8 of the report, core from several of the holes found minor amounts of antimony and gold mineralization but none of core approached ore grade. Hole DDH MC58 appears to have been the best hole drilled. It found a 30-foot zone from 685 to 715 feet, averaging 0.109 ounce of gold per ton. The same zone from 680 to 715 feet averaged 0.61 percent antimony. This grade of mineralization approaches that of ore mineral in the Yellow Pine open pit, but it could not be considered as ore in an underground operation.

Although project drilling was unsuccessful the Yellow Pine area warrants further Government participation in exploration, if the operator should apply for more exploration assistance and if he should present sound evidence that work done on company account had definitely indicated new targets. The possible antimony-bearing parts of the Yellow Pine area are large, are structurally favorable for the formation of ore deposits, and have produced substantial amounts of metal. From a geological standpoint, there is reason to believe that there are more ore deposits in the area.

RECEIVED
FEB - 7 1956

T. H. Kiilsgaard
T. H. Kiilsgaard

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JAN 31 1956

January 25, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

Enclosed are four copies of a Field Team Final Report written by John D. Bardill, Metallurgist, U. S. Bureau of Mines, and Verne C. Fryklund, Jr., and Donald F. Kellum, Geologists, U. S. Geological Survey, on the Yellow Pine Mine.

The authors state that no Certification of Discovery or Development should be made but that the area is worthy of further exploration; however, Government participation is warranted only if new geologic evidence is presented that indicates the presence of new ore bodies on the property or in the Yellow Pine area.

By Field Team, Region I, NW District

A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

Wing G. Agnew
Wing G. Agnew, Member
(U. S. Bureau of Mines)

Enclosures
cc: USBM(2)
Fryklund-Kellum

Reviewed by
DMEA OPERATING COMMITTEE
2-3-56
(date)

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 31 1956

FIELD TEAM, REGION I
Northwest District

FINAL REPORT

Contract Idm-E453

by

John D. Bardill
Metallurgist
U. S. Bureau of Mines

Verne C. Fryklund, Jr., and
Donald F. Kellum, Geologists
U. S. Geological Survey

BRADLEY MINING CO.
1022 Crocker Building
San Francisco 4, California

Docket No.:	DMEA 2636
Commodity:	Antimony
Contract date:	November 25, 1952
Completion date:	August 31, 1955

Reviewed by
DMEA OPERATING COMMITTEE
2-3-56
(date)

YELLOW PINE MINE
Yellow Pine Mining District
Valley County, Idaho

Spokane, Washington

January 1956

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Drill Logs — In Pocket

ILLUSTRATIONS

Figure

1 Simplified Geologic Map Showing Diamond Drill Holes, Stibnite Area — In Pocket

FINAL REPORT

BRADLEY MINING CO.
Yellow Pine Mine
Yellow Pine Mining District
Valley County, Idaho

Contract Idm-E453

✿ ✿ ✿ ✿

INTRODUCTION

This report describes an exploration project conducted jointly by the Bradley Mining Co. and the Defense Minerals Exploration Administration at the Yellow Pine mine, Valley County, Idaho.

Summary

The purpose of the project was to explore for antimony ores by diamond drilling from surface and underground locations in five areas at the Yellow Pine mine. Sixteen drill holes totaling 7,710 feet of diamond drilling were completed. Only Drill Holes MC58, MC60, and MC63, in the Scout Ridge area, cut anything that approached the grade of material mined in the open pit. There is some question whether this material could be mined underground at a profit.

Recommendations

No Certification of Discovery or Development should be made. The area is worthy of further exploration, but Government participation is warranted only if new geologic evidence is presented that indicates the presence of new ore bodies on the property or in the Yellow Pine area.

LOCATION AND ACCESSIBILITY

The property is in secs. 3, 10, 15, and 16, T. 18 N., R. 9 E., B. M., Valley County, Idaho.

Two roads provide access to the mine. The old road leaves State Highway 15 at Cascade and passes through Landmark Ranger Station and Yellow Pine enroute to Stibnite. The new road leaves State Highway 15 at McCall and joins the old road at Yellow Pine. Both roads are gravel surfaced, are narrow and winding in places, and may be blocked by snow during the winter. The road to McCall is the shorter and crosses only one pass. Access to the area in winter is usually by airplane, from either Boise or McCall to an airstrip in Stibnite.

PROPERTY

The property in the original contract consisted of the following lode mining claims in secs. 3 and 10, T. 18 N., R. 9 E., B. M., Valley County, Idaho.

Patented Lode Mining Claims

Claim	Patent No.
Hennessey No. 2	1,111,588
" No. 3	"
" No. 4	"
" No. 5	"
" No. 6	"
Homestake No. 5	"
Monday No. 2	1,120,542
" No. 3	"
" No. 6	"

Unpatented Lode Mining Claims
Recorded at County Courthouse at Cascade, Idaho

Claim	Book	Page
Monday No. 1	6	210
" No. 4	6	213
" No. 5	6	292
" No. 7	6	215
" No. 8	6	293
" No. 9	6	216
" No. 10	6	217
" No. 11	6	218
" No. 12	6	219
" No. 13	6	294
" No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208
M. W. No. 1	12	504
M. W. No. 2	4	503
A No. 2	12	472
A No. 4	6	202
A No. 5	12	479
A No. 6	6	204
A No. 7	12	481
C.D.H. No. 1	12	460
" No. 2	12	461
" No. 3	12	463
" No. 4	12	464
" No. 5	12	465
" No. 6	12	467
" No. 7	12	468
" No. 8	12	469
" No. 9	12	470

Amendment No. 2, dated August 21, 1953 (effective November 25, 1952), deleted C.D.H. Nos. 1 through 9 claims in sec. 27 and added the following claims owned by the Operator located in secs. 15 and 16, T. 18 N., R. 9 E., B.M., Valley County, Idaho.

Patented Claims	Patent No.
Meadow Creek No. 1	974,550
" " No. 4	"
" " No. 5	"

Unpatented Claims	Book	Page
Meadow Creek No. 6	6	228
" " No. 11	6	232
" " No. 12	6	233
" " No. 16	6	234
Meadow Quartz No. 1	6	237
" " No. 2	6	238
" " No. 5	6	240
" " No. 6	6	241
" " No. 7	6	248
" " No. 8	6	249
" " No. 9	12	487

Amendment No. 3, dated October 1, 1954 (effective November 25, 1952), added the following unpatented lode mining claims located in secs. 10, 11, 14 and 15, T. 16 N., R. 9 E., B.M., Valley County, Idaho:

Claims	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
" " No. 13	12	490
" " No. 14	12	491
" " No. 15	12	493
" " No. 16	12	494
" " No. 17	12	473
" " No. 18	12	475
" " No. 19	12	510
" " No. 20	12	509
" " No. 21	12	508
" " No. 27	12	476

The contract and amendments indicate Bradley Mining Company is the owner of the claims but subject to a 5 percent royalty on net smelter returns payable to United Mercury Mines Company.

The only mine workings with which the project was concerned are the east and west crosscuts of the North Tunnel where Holes FC-1 and FC-2 were drilled from underground sites.

GEOLOGY

Description of the general geology and ore deposits of the Stibnite area may be found in the following publications:

Cooper, John R., 1950, Geology of the tungsten, antimony, and gold deposits near Stibnite, Idaho: U. S. Geol. Survey Bull. 969-F, p. 151-152.

White, D. E., 1940, Antimony deposits of the Yellow Pine district, Valley County, Idaho: U. S. Geol. Survey Bull. 922-I.

_____, 1942, Memorandum report on tungsten and antimony at Yellow Pine mine, Valley County, Idaho, unpublished.

_____, 1946, Geologic map of the Yellow Pine area, Valley County, Idaho: U. S. Geol. Survey strategic min. investig. preliminary map (scale 1:48,000).

The abstract of Cooper's report is quoted below.

"The deposits of tungsten, antimony, silver, and gold described in this report occur in an area about a mile wide and 3½ miles long near the town of Stibnite, Valley County, Idaho. Ore has been mined from only two deposits in the area, the Yellow Pine and Meadow Creek mines of the Bradley Mining Co. The Yellow Pine mine was the largest source of tungsten and antimony ores in the United States from 1942 to 1944. Gold and silver ores also are taken from this mine. Only gold, antimony, and silver ores were mined in the Meadow Creek mine, which was closed in 1938.

"Quartz monzonite and related rocks of the Idaho batholith, locally containing large roof pendants of metamorphosed sedimentary rocks, are the principal rocks of the area. Intense

and widespread faulting, controlled in part by older structures in the sedimentary rocks, has been accompanied by much shearing in the quartz monzonite. Dikes of basalt, quartz latite porphyry, trachyte, and rhyolite were intruded after the main faulting but before the final fault movements.

"Metalization took place in three stages, with intervening periods of fracturing. The first stage is represented by extensive replacements by gold-bearing pyrite and arsenopyrite, the second by less extensive replacement by scheelite within the gold ore bodies, and the third and final stage by replacements by stibnite and silver, localized in part by the same fractures that localized the scheelite.

"The main ore bodies occur along the Meadow Creek fault, a shear zone as much as several hundred feet wide cutting the quartz monzonite. The ore bodies are localized by changes in strike or dip of the main fault zone and by intersecting subsidiary faults associated with these changes. The tungsten-antimony ore body at the Yellow Pine mine has the general shape of a flat upright funnel flaring to its widest diameter at the surface and tapering to a narrow neck, which extends below the bottom of the minable tungsten ore. The under side of the ore body is very irregular in detail. The highest grade of tungsten ore was concentrated toward the center of the mass and was surrounded by an envelope of antimony ore containing only a little tungsten. The richer gold ore bodies not only are clustered around the antimony 'funnel' but are distributed elsewhere in and near the fault zone where there is little associated tungsten and antimony ore.

"Ore mined at the Meadow Creek mine contained 0.23 ounce of gold per ton and 1.6 percent of antimony. That mined at the Yellow Pine mine contained less gold but about 4 percent of antimony and 2 percent of WO_3.

"The tungsten ore body at the Yellow Pine mine was exhausted in 1945. A total of 831,829 units of WO_3 were contained in the tungsten concentrates produced. Antimony and gold are still being produced from the mine.

"Reserves of antimony at the Yellow Pine and Meadow Creek mines were estimated on June 1, 1943, at nearly 40,000 tons of metallic antimony contained in indicated ore averaging more than 1 percent of antimony, and more than 20,000 tons in indicated gold ores averaging less than 1 percent of antimony. Additional amounts may be produced from now undeveloped prospects in the area.

"The antimony at the Yellow Pine and Meadow Creek mines, and presumably that in the other deposits, contains silver in the approximate ratio of half an ounce of silver to 20 pounds of antimony.

"The Yellow Pine mine will probably be a gold producer for many years to come because of its sizable reserve of indicated gold ore. Other mines and prospects in the area should add to the total gold output. The district is believed to contain nearly 600,000 ounces of gold in indicated ore averaging 0.1 ounce per ton or better, and about 140,000 additional ounces of recoverable gold in antimony ore."

THE PROJECT

The Stibnite mine was the largest tungsten producer in the United States during World War II; the mine was also the largest antimony producer in the United States. It was hoped that diamond drilling would find other minable bodies of stibnite and scheelite ore. The project was strongly recommended by Ira B. Joralemon and Carlton D. Hulin, consultants for the company; subsequently a recommendation for such exploration was made by A. E. Weissenborn, Geological Survey, in a memorandum dated August 25, 1952.

The original proposal by the applicant in July 1952 was to drill four diamond drill holes totaling 3,000 feet in the C.D.H. Group, three holes totaling 1,500 feet in North Tunnel Area, four holes totaling 1,500 feet in the Southeast of Pit Area, and one 500-foot hole in the Hennessey Creek Area. Estimated total cost of the project was $49,962.50.

The contract was approved November 25, 1952, essentially the same as the application in the amount of $53,000.00. The diamond drilling was to be done on an agreed unit cost basis with allowances for supervision, materials and supplies, and contingencies. Government participation in the cost of the project was to be 75 percent.

Amendment No. 1, dated December 15, 1952, extended the starting time from 60 to 180 days because of the severe winter weather conditions.

The diamond drilling was started in June 1953.

Amendment No. 2, dated August 21, 1953 (effective November 25, 1952), deleted the C.D.H. mining claims and drilling in that area and substituted claims and drilling in the Stibnite Airport Area.

Amendment No. 3, dated October 1, 1954 (effective November 25, 1952), added drilling in the Scout Ridge area comprising 12 claims. This area was added because it was believed to be more favorable geologically for discovering ore.

Amendment No. 4, dated January 7, 1955 (effective November 25, 1952), extended the time for completing the contract from 24 months to 33 months to allow a recess during the winter.

Amendment No. 5, dated August 22, 1955 (effective November 25, 1952), adjusted some differences in drilling footages and costs in the contract.

The contract drilling was completed in August 1955.

Description of Work Completed

Diamond drilling done under the project is summarized in the following tabulation:

Hole No.	Length (feet)	Inclination	Bearing	N. Coord.	E. Coord.	Collar Altitude (feet)
B217	371	-22°	S. 12° E.	29,901	20,633	6,070
B218	500	-10°	S. 25° E.	29,589	20,388	6,072
B219	291	-10°	S. 87° E.	29,593	20,391	6,072
B220	278	-60°	S. 4° E.	30,182	19,516	6,366
B221	358	-60°	S. 63° W.	30,175	19,510	6,367
FC1	476	+ 1°	S. 62° E.	25,937	20,019	6,523
FC2	475	-18°	N. 53° W.	25,968	19,683	6,525 ±
MC55	750	-50°	S. 47°30' E.	19,952	20,419	6,546
MC56	748	-50°	S. 47° E.	19,723	20,098	6,550
MC57	703	-47°30'	N. 47° W.	19,169	21,029	6,548
MC58	735	-20°	N. 75° E.	23,396	22,607	6,445
MC59	135	-50°	N. 75° E.	23,361	22,484	6,430
MC60	488	-45°	N. 77° E.	23,627	23,028	6,570
MC61	174	-47°	N. 86° W.	24,028	23,378	6,566
MC62	510	-40°	N. 75° E.	23,918	23,011	6,518
MC63	613	-49°	East	24,348	23,161	6,554

The drill holes are shown on the accompanying map (fig. 1); the Operator's logs and assays are in the pocket.

DDH B217 was drilled to test the Home Stake fault. Minor amounts of gold and stibnite were present in much of the hole but there was nothing approaching ore grade. Minor amounts of gold and antimony were in DDH 218 and 219.

DDH B220 and B221 were drilled in a search for the intersection of the "L" fault and the Meadow Creek fault. No such intersection could be found and both holes were essentially barren.

DDH FC1 was drilled underground from the North Tunnel. The hole was drilled to the southeast but only minor amounts of gold and antimony were found. DDH FC2, also an underground hole, was supposed to cut the Meadow Creek fault near its intersection with the Fiddle Creek fault, based on the assumption that the Meadow Creek fault lies west of the North Tunnel. This assumption was not valid as the hole was in unaltered, barren rock.

DDH MC55 was drilled to explore beneath the alluvial flat that forms the airport area. Zones of altered granite containing minor amounts of gold and antimony were present. DDH MC56 was drilled for the same reason as DDH MC55, and with the same results. The highest assays were 0.095 ounce of gold per ton, and 0.12 percent antimony. DDH MC57 drilled in the same area was essentially barren.

DDH MC58 was drilled in the Scout Ridge area. A 30-foot zone, 685 to 715 feet, averaged 0.109 ounce of gold per ton and a 35-foot zone, 680 to 715 feet, averaged 0.61 percent antimony. According to the Operator this approaches the value of ore mined in the open pit.

DDH MC59, in the same area, was barren. It tested the granite-quartzite contact on the west flank of Scout Ridge.

DDH MC60 was drilled to test the zone cut in DDH MC58. A 30-foot zone, 315 to 345 feet, averaged 0.115 ounce of gold per ton and 1.62 percent antimony.

DDH MC61 was collared in alluvium. It was abandoned at 174 feet still in gravel.

DDH MC62 was designed to cut the ore zone cut in DDH MC58 and MC60. The ore zone was not present.

DDH MC63 cut a zone from 245 to 250 feet that assayed 2.60 percent antimony; otherwise this hole was also barren.

Summary of Factual Data

Sixteen holes were drilled, aggregating 7,710 feet; this included 862 feet of driving pipe and 926 feet of reaming and casing.

The total amount of the contract was $53,000.00, of which approximately $50,850.00 was expended with the Government participating in 75 percent of that amount.

The following is the approximate cost of the project, subject to final audit:

Item	Total Cost	Cost per ft. of diamond drilling (6848 feet)
(1) Independent Contracts:		
Agreed Unit Costs		
Area Southeast of Pit, 3 holes 1,162 feet @ $5.02/ft.	$ 5,833.24	
North Tunnel Area, 2 holes 951 feet @ $4.10/ft.	3,899.10	
Hennessey Creek Area, 2 holes 586 feet @ $5.10/ft.	2,988.60	
Airport-Scout Ridge Area, 9 holes 4,149 feet @ $4.73/ft.	19,624.77	
	$32,345.71	$4.72
Driving pipe 862 feet @ $9.00/ft.	7,758.00	1.13
Reaming and casing 925.8 feet @ $2.65/ft.	2,453.29	0.36
(2) Labor and Supervision:		
Consultant	1,150.00	0.17
Technical Services	1,000.00	0.16
(3) Operating Materials & Supplies:		
Miscellaneous	514.00	0.07
(4) Operating Equipment:		
Depreciation	301.94	0.04
(6) New Buildings, Improvements, etc.:	1,014.99	0.15
(7) Miscellaneous:		
Sampling and analysis	1,899.75	0.28
Accounting	500.00	0.07
(8) Contingencies:		
Preparatory work	1,923.17	0.28
Totals	$50,860.85	$7.43
Government participation @ 75 percent	$38,145.64	$5.57

There was no production from this project.

The Government does not have an equity in any equipment. The materials, supplies, and improvements were expended.

Discussion of Conclusions

The Operator conducted all phases of the project in a competent manner. Delays were due almost entirely to long severe winters when it was impractical to work outside.

The problem of district exploration will be considered at greater length in the final report on the other DMEA Stibnite Contract No. Idm-E173, but some useful comments can be made at this time.

It has been assumed that the Meadow Creek fault is the major geologic feature in the area. The Stibnite and Meadow Creek mines are along the Meadow Creek fault at points where there are northeast-striking branch faults.

Not surprisingly, exploration has been directed toward exploring other such fault intersections. Regrettably, the drill holes directed to such assumed intersections were largely barren, and no rock even approaching ore grade was cut.

It seems to the writers that DDH MC55, MC56, and MC57 (fig. 1), in the Airport area were drilled too far east to locate any ore body that might lie at the intersection of any northeast-striking fault and the Meadow Creek fault.

If there is a Fiddle Creek fault DDH FC1 and FC2 have hardly explored the fault intersection at any useful positions.

Although the Meadow Creek fault may be the major ore structure in the area, as shown by the Scout Ridge drilling, near-ore grade material is not entirely confined to areas adjacent to the Meadow Creek fault. There may be several lesser north-south structures both west and east of the Meadow Creek fault that should be first located, probably by much more detailed surface mapping, and then explored as seems desirable.

Further underground work, or surface diamond drilling, is not warranted until there has been a comprehensive reappraisal of the geology of the area. The quickest and most direct way to determine if there are hidden antimony- and scheelite-bearing structures outside present stream channels would be by a soil sampling survey. The presence of an antimony smelter in the area would not preclude soil sampling.

Enclosures

Distribution:
DMEA (4) Docket
USBM (5) Fryklund
USBS (SRO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~

So. 157 Howard Street
Spokane 4, Washington

January 5, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

For your information, we will not recommend certification of the Bradley Mining Company diamond drilling project at the Yellow Pine Mine.

We will recommend a certification of the underground project at the Yellow Pine mine (Docket DMEA-1284) but that will be the subject of a later letter.

By Field Team, Region I, NW District

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Thomas E Howard
for: Wing G. Agnew, Member
U. S. Bureau of Mines

cc: USBM (2)
USBM (AD)
Kellum

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~

1201 N. Division St.
Spokane 2, Washington
October 28, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John D. Bardill, Bureau of Mines

Subject: Final inspection report, Docket No. DMEA-2636 (antimony), Bradley Mining Company, Yellow Pine Mine, Valley County, Idaho, Contract No. Idm-E453

The project work consisting of the following diamond drilling was finished in August 1955 to complete this contract on an agreed unit cost basis.

Area southeast of pit 3 holes - 1162 feet @ $5.02/ft.	$ 5,833.24
North Tunnel area 2 holes - 951 feet @ $4.10/ft.	3,899.10
Hennessey Creek area 2 holes - 586 feet @ $5.10/ft.	2,988.60
Airport-Scout Ridge area 4,149 ft. @ $4.73/ft.	19,624.77
Driving pipe on surface for drill holes 862 ft. @ $9.00/ft.	7,758.00
Reaming and casing drill holes 919 ft. @ $2.65/ft.	2,435.35
	$42,539.06

The Government participation in the cost is 75 percent.

Geological Survey geologists will log the drill cores and map the location of the drill holes. Recommendation for certification of discovery is being withheld until the cores have been carefully examined.

John D. Bardill

John D. Bardill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
AD
Turner
JDB/he

B

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 28 1955

October 25, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

Attached are the Government, Docket and Division copies of Amendment No. 5. Distribution of this amendment is being made in the usual manner. This amendment was prepared in Washington in accordance with the Operator's request.

Sincerely yours,

Verne C. Fryklund

Verne C. Fryklund, Jr.
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Attachments as indicated

cc: Finance Office w/encl.
USBM (2)
Kellum

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.
No. 157 Grand Street
Spokane 1, Washington

RECEIVED
OCT 21 1955

October 13, 1955

Mr. [illegible] Burton, Asst. Secretary
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

Re: Contract No. [illegible]-203 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. [illegible]-103

Dear Mr. Burton:

Enclosed are the original and five copies of proposed Amendment No. 5 to this contract which has been revised by our Washington office.

If this amendment meets with your approval, please properly execute all copies, retain the copy marked "Operator's", and return the others to this office.

Sincerely yours,

A. [illegible] Eisenhorn
Executive Officer, DMEA
Field Team, Section 1
Northwest District

Enclosures
cc [illegible]

Surname copy

700

Ching
Ellis
Selfridge
Jefferson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OCT 14 1955

Mr. A. E. Weissenborn
Executive Officer, Northwest District
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

Enclosed are the original and five copies of proposed Amendment No. 5 to the subject contract, revised in accordance with the information enclosed with your letter of October 4.

You will note that we have used the completed footage and amount for the Airport-Scout Ridge Area, and adjusted the footage and amount for reaming and casing so that the total amount remains at $42,557.00.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

MChing/gla
10-12-55

APPROVED:

/s/ Robert W. Geehan (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
T. H. Kiilsgaard, Rm. 5224
Code 700
Mr. Ching

R.C.J.

Docket copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 5

It is agreed this 22nd day of August, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading "Estimated Costs of the Project," the items of Diamond Drilling under the subheading "Agreed Unit Costs" are revised to read as follows:

Area Southeast of Pit 3 holes, 1162 ft. @ $5.02 per ft.	$ 5,833.24	
North Tunnel Area 2 holes, 951 ft. @ $4.10 per ft.	3,899.10	
Henessey Creek Area 2 holes, 586 ft. @ $5.10 per ft.	2,988.60	
Airport-Scout Ridge Area 4,237 ft. @ $4.73 per ft.	20,041.01	
Driving pipe on surface for drill holes 862 ft. @ $9.00 per ft.	7,758.00	
Reaming and casing drill holes 768.7 ft. @ $2.65 per ft.	2,037.05	
Total		$42,557.00

The Government will contribute to the costs of the above-specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 10 1955

October 4, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

The Bradley Mining Co. has returned unsigned the copies of Amendment No. 5 to the referenced contract.

The enclosed letter from the company, dated September 26, 1955, is self-explanatory. Would you please refer to our letter of September 23, 1955, to the Operator. (Copies previously sent to Washington.)

By Field Team, Region I, NW District

Verne C. Funkhouser
A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Thomas E. Howard
for: Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USBM (AD)
Kellum

JAMES P. BRADLEY
VICE-PRESIDENT

BRADLEY MINING CO.
1022 CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE DUTTON 1-0414

ANTIMONY
VANADIUM
MERCURY
VIRGINIA QUICKSILVER

RECEIVED
BUREAU OF MINES
SEP 28 1955
SPOKANE, WASH.

September 26, 1955

RECEIVED
OCT 10 1956

Bureau Minerals Exploration Administration
1234 E. Division Street
Spokane 2, Washington

re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Ida-E453

Gentlemen:

As suggested, we return herewith all copies of Amendment No. 5, with the request that it be rewritten so as to cover the expenses as incurred in completing the contract. It is now obvious that a misunderstanding occurred between Mr. Wallace and your office as to the amount of the unexpended reaming and casing funds to be transferred to additional drilling in the Airport-Scout Ridge Area.

The tabulation attached is given for your convenience in comparing the items in question.

It is our request that the amendment be redrawn either per the "As Requested" column or per the "Contract As Completed" column, as may be most convenient to you.

Yours very truly,

BRADLEY MINING CO.

By

Assistant Secretary

bcc:
Bebe

COPY

Defense Minerals Exploration Administration
September 26, 1955

RECEIVED
OCT 10 1955

	Amend. #5 As Submitted	As Requested	Contract As Completed*
Area Southeast of Pit			
1162 ft. @ $5.02	$ 5,833.24	$ 5,833.24	$ 5,833.24
North Tunnel Area			
951 ft. @ $4.10	3,899.10	3,899.10	3,899.10
Mennessey Creek Area			
586 ft. @ $5.10	2,988.60	2,988.60	2,988.60
Airport-Scout Ridge Area			
4237 ft. @ $4.73	20,041.01		
4152 ft. @ $4.73		19,638.96	
4149 ft. @ $4.73			19,624.77
Driving Pipe			
862 ft. @ $9.00	7,758.00	7,758.00	7,758.00
Reaming & Casing			
768.7 ft. @ $2.65	2,037.05		
920.415 ft. @ $2.65		2,439.10	
919 ft. @ $2.65			2,435.35
	$42,557.00	$42,557.00	$42,539.06

* Per August 1955 report submitted separately.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
SEP 26 1955

1201 N. Division St.
Spokane 2, Washington
September 23, 1955

Mr. G. C. Orton, Asst. Secretary
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Orton:

This is in reply to your letter of September 12, concerning Amendment No. 5 to the referenced contract.

Mr. Wallace had requested that unused funds for reaming and casing drill holes be allocated for additional drilling in the Airport-Scout Ridge area. A change in agreed unit cost items requires that the amendment be written in Washington, which was done with the information available at that time (August 5, 1955).

When the amendment was received from Washington and submitted for your approval on August 26, 1955, we had not yet received your July 1955 voucher. The difference between reaming and casing in the amendment and in your July voucher is 151 feet, costing $400.15, which was difficult to foresee at the time the amendment was written.

If the amendment is unacceptable, will you please return all copies together with a letter stating your objections, and we shall transmit them to Washington, D.C. for their action.

By Field Team, Region I, NW District

Verne C. Fryklund, Acting Exec. Officer
U. S. Geological Survey

Stephen W. Zoldok, Acting Member
U. S. Bureau of Mines

cc: K. G. Wallace, Stibnite, Idaho

DMEA (2)
USGS (2)
USBM (AD)

NORTHEN BRADLEY
PRESIDENT

JOHN D. BRADLEY
EXECUTIVE VICE PRESIDENT

JAMES P. BRADLEY
VICE PRESIDENT

E.A. GRIFFEN
SECRETARY

RECEIVED
BUREAU OF MINES
SEP 15 1955
SPOKANE, WASH.

BRADLEY MINING CO.

1022 CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

ANTIMONY
TUNGSTEN
VIRGIN QUICKSILVER

RECEIVED
SEP 26 1955

September 12, 1955

Mr. Wing G. Agnew
Acting Executive Officer
Defense Minerals Exploration Administration
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Agnew:

We acknowledge receipt of your letter of August 26 to Mr. Bradley and the copies of the proposed Amendment No. 5 to the subject contract.

The amendment was submitted to our Stibnite office for approval prior to its execution, and they advise that it is not quite in accordance with their understanding of the matter. It is their belief that the difference is due to the amendment's having been prepared prior to your receipt of our July 1955 report instead of afterward as intended.

It is believed that the amendment should read as follows:

"Area Southeast of Pit 3 holes, 1162 ft. at $5.02 per foot	$ 5,833.24
North Tunnel Area 2 holes, 951 ft. at $4.10 per foot	3,899.10
Hennessey Creek Area 2 holes, 586 ft. at $5.10 per foot	2,988.60
Airport-Scout Ridge Area 4152 ft. at $4.73 per foot	19,638.96
Driving pipe on surface for drill holes 862 ft. at $9.00 per foot	7,758.00
Reaming and casing drill holes 920.415 ft. at $2.65 per foot	2,439.10
Total	$42,557.00"

The above will be in agreement with our final report for the project, which will be submitted in the near future.

We shall hold all copies of the proposed amendment pending your advice to return them or the issuance of a further amendment to effect the necessary correction.

Yours very truly,

BRADLEY MINING CO.

By
Assistant Secretary

GCO:WV

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
1201 N. Division St.
Spokane 2, Washington

RECEIVED
AUG 29 1955

August 26, 1955

Mr. J. D. Bradley, President
Bradley Mining Company
1022 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-6453

Dear Mr. Bradley:

Enclosed are the original and six copies of Amendment No. 5 signed by the Administrator. This amendment allocates unexpended funds for completion of diamond drilling in the Scout Ridge area.

If this amendment meets with your approval, please sign all copies, retain the Operator's copy, and return the remaining copies to this office.

Sincerely yours,

Wing G. Agnew
Acting Executive Officer
DMEA Field Team, Region I
Northwest District

Enclosures

cc: R. G. Wallace, Stibnite, Idaho

DMEA (2)
USGS (2)
USBM (AD)

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Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

22 1955

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

In accordance with your letter of July 25, and teletype of August 5, we are enclosing a proposed Amendment No. 5 to the subject contract, signed by the Administrator.

If you and the Operator find the amendment in order please have all six copies signed by the latter and make the usual distribution thereafter.

It is noted that the completion date of this contract is August 25, 1955. Since you did not recommend a further extension under Amendment No. 5 we assume that the contract will either be completed on time or that we will receive your recommendation to further amend the contract.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (S/B)

Enclosures

MChing:am
8-18-55 - 8-22-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
T. H. Kiilsgaard, Rm. 5222
Code 700
Mr. Ching

APPROVED:

/s/ Robert W. Geehan (S/B)
Member, Bureau of Mines

/s/ N. T. Nelson (S/B)
Member, Geological Survey

Surname 700

Ching
Ellis
Jacobs

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. F. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

In accordance with your letter of July 25, and teletype of August 5, we are enclosing a proposed Amendment No. 5 to the subject contract, signed by the Administrator.

If you and the Operator find the amendment in order please have all six copies signed by the latter and make the usual distribution thereafter.

It is noted that the completion date of this contract is August 25, 1955. Since you did not recommend a further extension under Amendment No. 5 we assume that the contract will either be completed on time or further amended by you.

Sincerely yours,

Chairman, Operating Committee

Enclosures

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

MChing:am
8-18-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
T. H. Kiilsgaard, Rm. 5222
Code 700
Mr. Ching

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Surname copy
Ching
Ellis

August 9, 1955

Memorandum

To: Acting Assistant Solicitor, Defense Minerals

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E153
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Will you kindly prepare a proposed Amendment No. 5 to the subject contract in accordance with the attached draft.

/s/ Michael Ching

Michael Ching

Attachment

MChing/gla
cc to: Docket
Code 700
Mr. Ching

DRAFT
8/9/55
MChing/gla

AMENDMENT NO. 5

It is agreed this day of , 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading, "Estimated Costs of the Project," subheading "Agreed Unit Costs Diamond Drilling," delete all items and substitute the following:

Area Southeast of Pit		
3 holes, 1162 ft. @ $5.02 per ft.	$5,833.24	
North Tunnel Area		
2 holes, 951 ft. @ $4.10 per ft.	3,899.10	
Hennessy Creek Area		
2 holes, 586 ft. @ $5.10 per ft.	2,988.60	
Airport-Scout Ridge Area		
4,237 ft. @ $4.73 per ft.	20,041.01	
Driving pipe on surface for drill holes		
862 ft. @ $9.00 per ft.	7,758.00	
Reaming and casing drill holes		
768.7 ft. @ $2.65 per ft.	2,037.05	
Total		$42,557.00

The Government will contribute to the costs of the above specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These

unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum," nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By_____
Administrator, Defense Minerals
Exploration Administration

BRADLEY MINING COMPANY

By_____

XXHXXXXX-166K

AXXXXXXX-167K

AXXXXXXX-168K

XDXXXXXX-169K

RECEIVED
AUG - 8 1955

YWB110 WAF SP 21 I- BOM

SPOKANE WN 8-5-55 410P

W S MARTIN ACTING CHAIRMAN OPERATING COMM DMEA DEPT OF INTERIOR

WA

RE SUGGESTED AMENDMENT NO 5 BRADLEY MINING COMPANY DOCKET 2636

WE SUGGEST THE FOLLOWING

FIRST 3 ITEMS	$12,720.94
AIRPORT - SCOUT RIDGE AREA	
4237 FT AT $4.73 PER FOOT	$20,041.01
DRIVING PIPE ON SURFACE	
862 FEET AT $9.00 PER FOOT	$7,758.00
REAMING AND CASING	
768 FEET AT $2.65 PER FOOT	$2,037.05
TOTAL	$42,557.00

WING G AGNEW MEMBER DMEA FIELD TEAM REGION 1. NORTHWEST DIST.

3 $12,720.94 4237 $4.73 $20,041.01 862 $9.00 $7,758.00 768 $2.65 $2,037.05 $42,557.00

MAH 415P

Surname

Ching
Ellis
Kilsgaard
Geehan
Martin
Kjorsvik
Wattendorf

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AUG - 3 1955

DEPARTMENT OF THE INTERIOR

DMEA

14X4401(01)Revolving Fund, Defense Production Act (Interior) (Allocated Working Fund to the Office of the Secretary)

XXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXX

T E L E T Y P E

A. E. WEISSENBORN
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION I
NORTHWEST DISTRICT
SOUTH 157 HOWARD STREET
SPOKANE 4, WASHINGTON

RE SUGGESTED AMENDMENT NO. 5 BRADLEY MINING COMPANY DOCKET 2636

WE PREFER DEFINITE FIGURES FOR LAST TWO ITEMS.

IS FOLLOWING ACCEPTABLE:

FIRST 3 ITEMS	$12,720.94
AIRPORT - SCOUT RIDGE AREA 4237 FEET @ $4.73 PER FOOT	$20,041.01
DRIVING PIPE ON SURFACE 850 FEET @ $9.00 PER FOOT	$7,650.00
REAMING AND CASING 809.45 @ $2.65 PER FOOT	$2,145.05
TOTAL	$42,557.00

ABOVE ALLOWS ONE ADDITIONAL HOLE AFTER MC-62 UP TO 636 FEET IN DEPTH AND 53 FEET PIPE DRIVING AND 48.45 FEET REAMING AND CASING IF REQUIRED.

W. S. Martin
ACTING Chairman, Operating Committee

Mr.
Messrs. ~~XXXXXXXX~~ A. Renick, Rm. 3624
T.H.Kilsgaard, Rm.5222
Code 700

cc to: Admr. Reading File
Operating Committee
Docket

MChing:am
8-3-55

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JUL 28 1955

July 25, 1955

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

Enclosed are two copies of proposed Amendment No. 5 to the subject contract, with Justification, to allow allocation of unexpended funds for completion of diamond drilling in the Scout Ridge area.

It is the belief of the Field Team that it is within our jurisdiction to allow use of unexpended funds under reaming and casing for diamond drilling (re: Field Team letter to Mr. K. G. Wallace dated November 15, 1954). However, as this situation is not specifically covered by the contract, there is some doubt on the part of the Fiscal Officer and Auditor Turner as to the correctness of this interpretation. To allay any doubts, we prefer that the Amendment be prepared in Washington along the lines of the sample enclosed.

By Field Team, Region I, NW District

A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Thomas E Howard
for, Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures as indicated

cc: USBM (2)
USBM (AD)
Kellum

BRADLEY MINING COMPANY
Exploration Project Contract No. Idm-E543
Docket No. DMEA 2636 (antimony)
Amendment No. 5
Exhibit "F"

RECEIVED
JUL 28 1955

Changes and Modifications:

In Exhibit "A" of the contract, under Description of the Work, Agreed Unit Costs, delete all items under diamond drilling and substitute:

"Area South East of Pit 3 holes	1162 ft.	@ $5.02 per ft.	$5,833.24
North Tunnel Area 2 holes,	951 ft.	@ $4.10 per ft.	3,899.10
Hennessy Creek Area 2 holes	586 ft.	@ $5.10 per ft.	2,988.60
Stibnite Airport Area 3,741.8 ft.	@	$4.73 per ft.	17,699.06
Driving pipe on surface @ $9.00 per ft. and/or reaming and casing and holes @ $2.65 per ft. and/or diamond drilling @ $4.73 per ft.			12,137.00
			$42,557.00

The Government will contribute to the costs of the above specified work on the basis of the above agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

RECEIVED
JUL 2 3 1955

Justification for Amendment No. 5

This amendment allocates unexpended funds to complete diamond drilling of the Scout Ridge area.

Present drilling of the Scout Ridge area indicates a mineralized zone in altered quartz monzonite as intersected by DDH's MC-58, MC-60, and MC-62. This zone has a maximum width of 30 feet and an average assay of 0.115 oz./ton gold and 1.62 percent antimony, as intersected by DDH MC-60. Core logs and assays of this and other completed diamond drill holes are contained in the docket. Further diamond drilling to test this zone is believed justified.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
July 5, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA 2636 (antimony), Bradley Mining Company, Valley County, Idaho, Contract No. Idm-E453

Diamond drilling was resumed in May after a recess during January thru April 1955.

Hole MC-63 was collared at approximately 24,330 N and 23,170 E, elevation 6550 feet, on the Scout Ridge area. The hole bears about due east at a 49° angle. Pipe had been driven about 50 feet in overburden.

Resume of diamond drilling completed to June 24, 1955:

Area	Feet Authorized	Feet * Completed	Cost
Southeast of Pit	1500		
Hole No. B 217		371	$2,061.17
Hole No. B 218		500	2,510.00
Hole No. B 219		291	1,582.72
		1162	$6,153.89
North Tunnel Area	1500		
Hole No. FC 1		476	$1,951.60
Hole No. FC 2		475	2,159.50
		951	$4,111.10
Hennessy Creek Area	500		
Hole No. B220		278	$1,554.30
Hole No. B221		358	1,884.30
		636	$3,438.60

Area	Feet Authorized	Feet * Completed	Cost
Stibnite Airport Area	3000		
MC 55		749	$4,493.47
MC 56		748	4,486.66
MC 57		703	4,490.90
MC 58		841	4,205.83
MC 59		135	975.88
MC 60		488	2,607.69
MC 61		174	1,566.00
MC 62		510	2,412.30
MC 63		50	---
		4398	$25,238.73
Driving pipe on surface	215		
Reaming and casing	3850		
Total for all areas		7147	$38,942.32
Total authorized 1/	10,565 ft. 1/		$42,557.00 1/

* Includes driving pipe.

1/Includes driving pipe, reaming and casing footages.

John D. Bardill

John D. Bardill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
JDB/he

XXXXXXXXXXXXXXXXXX
1201 N. Division St.
Spokane 2, Washington
March 28, 1955

2636

Mrs. Myrtle Purdy, Certifying Officer
DMEA Field Team, Region I, NW District
1201 North Division Street
Spokane 2, Washington

Re: Bradley Mining Co.
Contract Idm-8173
Monthly operating report
for January 1955

Dear Mrs. Purdy:

The fact that the subject operator has raised 104 feet under Stage 1 of Amendment No. 1 to the Amended Contract, has been called to the attention of the Field Team.

While the "Description of the Work" calls for 100 feet of raising, under "Estimated Costs" raising, drifting and crosscutting are combined for a total of 405 feet. The Field Team feels that from the standpoint of good engineering the best interests of both the operator and the Government will be served by allowing this extra 4 feet of raising, and you are hereby authorized to do so.

By Field Team, Region I
Northwest District

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

cc: DMEA (2)
USGS (2)

Wing G. Agnew, Member
U. S. Bureau of Mines

WORTHEN BRADLEY
PRESIDENT

JOHN D. BRADLEY
EXECUTIVE VICE PRESIDENT

JAMES P. BRADLEY
VICE PRESIDENT

E.A. GRIFFEN
SECRETARY

BRADLEY MINING CO.

1022 ~~425~~ CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

ANTIMONY
TUNGSTEN
VIRGIN QUICKSILVER

MAR 2 5 1955

March 21, 1955

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Mittendorf:

We acknowledge your letter of March 17th under the above subject, and note that you do not consider the program sufficiently promising to justify the Government's participation.

Please accept our thanks for your consideration of the matter.

Yours very truly,

BRADLEY MINING CO.

By John D. Bradley
Executive Vice President

JDB:MV

700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Surname copy

Ching
Ellis
Kiilsgaard
Hedges
Selfridge
Fitzsimmons

Mr. J. D. Bradley, President
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

MAR 17 1955

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-1453
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Bradley:

Your application, dated November 8, 1954, for additional work and funds under the subject exploration project, and other information available to us in Washington concerning the captioned property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for additional exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing the proposed work to our attention.

Sincerely yours,

C. O. Mittenzwei

Administrator (By ESF)

Copy to: K. C. Wallace, Assistant Manager
Bradley Mining Co.
Yellow Pine Mine and Smelter
Stibnite, Idaho

MChing/gla
3-15-55

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
T. H. Kiilsgaard, Rm. 5224
Code 700
Mr. Ching

DMEA Field Team, Region I, NW District (2)

R.C.S.

Ching
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

March 10, 1955

Summary of Proposed Project

Object: Denial of application for additional funds and work

Docket No.: DMEA-2636 (Contract No. Idm-E453)

Commodity: Antimony

Applicant: Bradley Mining Company
425 Crocker Building
San Francisco 4, California

Property: Yellow Pine Mine
Valley County, Idaho
Operator is the owner

Date of application: November 8, 1954

Amount of application: $34,500.00

Work Proposed:
4000 feet of surface diamond drilling (8 holes) at three target areas in the East Fork valley, at an overall cost of $34,500.00, including drill site preparation and analytical work.

Field Team Report: John S. Vhay, USGS, believes that if additional drilling is to be done, the first and most important objective is to prove or disprove the presence of the East Fork fault inferred by Bradley geologist Joralemon from surface alteration zones. He further believes that if it can be demonstrated that a major north-south shear zone occupies the East Fork valley, then an important new target is available in this area. He disapproves of the location and objectives of Operator's proposed drill holes because they will not really prove or disprove the existence of the East Fork fault zone. He suggests certain alternate holes.

The Field Team (including Mr. Vhay) feels that if additional drilling is to be done it should await the completion of both contracts Idm-E453 and Idm-E173 and an appraisal of the results. It notes that existing contracts for exploration

of this property amount to $256,836.00, and the results have been discouraging for the amount of exploration done.

Commodity Committee Members' Comments:

Bureau of Mines - Abbott Renick, March 8, 1955

Recommends that the application be denied because of the lack of geologic evidence of the probability of making a significant discovery. Would consider a new application if Applicant obtained additional evidence that might alter this opinion.

Geological Survey - E. L. Newcomb, March 8, 1955

The proposed exploration is based on the geologic surmise that major fault zones and associated alterations are coincident locally with stream valleys. It is further inferred that intersections of these trends or fault zones may prove to be loci of mineralization. There is no reliable evidence which suggests these structural conditions do exist and if the proposed project has a tangible target, it is simply the testing of this geologic hypothesis that the East Fork valley represents an fault altered zone. In view of the results obtained by previous drilling, which was aimed in part at testing known fault intersections, the proposed work is not warranted. The absence of proven structural targets places the project in the category of prospecting.

An extensive amount of DMEA assistance has been extended to the Bradley properties. Many suitable target areas have been tested, and probably sufficient exploration has been undertaken by the Government. I recommend the application be denied.

Rare and Miscellaneous Metals Division - Michael Ching, March 11, 1955

Under Docket No. DMEA-1284 the subject Applicant originally signed a contract for $97,368.00, covering underground work to explore the Meadow Creek Fault zone. An additional $78,000.00 was subsequently authorized to extend the exploration to the south toward the Meadow Creek Mine. Recently an additional $28,468.00 was authorized to further explore the only promising showing encountered to date. Thus a total of $203,836.00 has been authorized under this contract

to explore the most promising areas on the property by underground workings. Results to date have been disappointing.

Under Docket No. DMEA-2636 a contract for $53,000.00 authorized the same Applicant to explore five promising areas on the property by means of diamond drill holes, drilled mostly from the surface. This drilling, now about completed, was barren of results except for two holes in the Scout Ridge Area and one hole in the Southeast of Pit area. In the Scout Ridge Area one hole passed through 30 feet of material assaying 0.61% antimony and .11 ounce gold per ton. The other hole penetrated 30 feet of material assaying 1.62% antimony and .11 ounce gold.

In the Southeast of Pit area the mineralized hole penetrated 15 feet of material assaying 2.10% antimony.

The Applicant now requests an additional $34,500.00 to diamond drill untested areas in the East Fork valley, hitherto considered of lesser promise. Structural geology has not been mapped because of the general lack of outcrops in the area. Target areas in the form of multiple fault intersections were inferred as being present from topographic indications and rock alteration evidence.

There appear to be two important hazards in the proposed additional work. First, it is quite possible that the inferred structures are not actually there, and second, in most instances the presence of such structures would not in itself indicate the presence of ore. This was illustrated in the Airport, Hennessey Creek and North Tunnel areas where intersections of known fault zones were tested by diamond drilling without significant results.

This Applicant has been receiving Government aid for antimony exploration since October, 1951. Two major contracts and two amendments authorizing additional funds have been granted. Extensive areas have been covered by the exploration work and several major changes in the original programs have been made as new ideas were developed from the work completed. The present application covers a hitherto unexplored area; however, there are doubtless a number of other such areas for which a strong case could be built for exploration work.

Conclusions and Recommendations:

The history of exploration on this property to date and the lack of concrete geologic evidence that mineralizing structures are present in the area in question, leads to the conclusion that further participation by the Government in exploratory work on this property is not warranted. It is recommended that the subject application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

3/10/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 8, 1955

Docket No. DMEA 2636
Yellow Pine Mine - Antimony
Bradley Mining Company
Contract Idm-E 453
$34,500

Memorandum

To: E. William Ellis

From: Abbott Renick, Branch of Base Metals

Subject: Application for DMEA assistance submitted by the Bradley Mining Co., San Francisco, California.

Application dated November 8, 1954 together with the Field Team's letter of transmittal dated February 17, 1955 for an exploration project DMEA-2636 has been carefully reviewed.

The writer recommends that this application be denied, basing the decision on the lack of geologic evidence of the probability of making a significant discovery.

Furthermore, should the applicant obtain additional evidence that might alter this opinion the writer would be glad to consider a new application.

Abbott Renick

Abbott Renick

Copy to Division of Minerals
Branch of Base Metals
Ed. L. Newcomb - G.S. Bldg.-Rm. 5227
A. Renick
FILES

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 9 - 1955

March 8, 1955

Re: DMEA-2636
Bradley Mining Co.
(Yellow Pine Mine)
Valley Co., Idaho
Antimony

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Proposed amendment to contract Idm-E453

The operator has requested an amendment to his contract which would allow 4,000 feet of drilling (3 holes) to test along the East Fork valley trend and at the intersection of the Fiddle Creek and East Fork valleys. The proposed drilling will increase the contract an additional $34,500. A total of $256,836 has already been encumbered on contracts Idm-E453 and E173.

The proposed exploration is based on the geologic surmise that major fault zones and associated alteration are coincident locally with stream valleys. It is further inferred that intersections of these trends or fault zones may prove to be loci of mineralization. There is no reliable evidence which suggests these structural conditions do exist and if the proposed project has a tangible target, it is simply the testing of this geologic hypothesis -- does the East Fork valley represent an altered, fault zone? In view of the results obtained by previous drilling, which were aimed in part at testing known fault intersections, the proposed work is not feasible. The proposed drilling would be outside the limits for reasonable DMEA exploration. The absence of proven structural targets places the project in the category of prospecting -- not for mineralization, but for a feasible exploration objective.

An extensive amount of DMEA assistance has been extended to the Bradley properties. Many of the suitable target areas have been tested and probably sufficient exploration has been undertaken by the Government.

I recommend the proposed 4,000 feet of drilling be denied. In the event the Company proves the existence of favorable structures in the proposed exploration area at some future time, further consideration of drilling in the area may be justified.

E. L. Newcomb
E. L. Newcomb

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
February 24, 1955

MEMORANDUM

To: DMEA Field Team, Region I

From: W. S. Anderson, Mining Engineer, Bureau of Mines

Subject: Routine report, Docket No. DMEA 2636 (antimony), Bradley Mining Co., Valley County, Idaho, Contract Idm-E453

An attempt was made February 22 and 23, 1955, to fly into Stibnite from Boise, Idaho, but weather conditions were such that the pilot could not make the trip. He stated that it would be another week before the weather cleared enough to fly into the property.

Mr. Keith Wallace, assistant manager, Yellow Pine mine, was contacted by radio and he stated that drilling under the contract had been suspended January 8, 1955, because of inclement weather.

W. S. Anderson

W. S. Anderson

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
WSA/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
February 11, 1955

FEB 17 1955

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract Idm-E453

Dear Mr. Selfridge:

Enclosed are the original and three copies of a memorandum by John S. Vhay, geologist, U. S. Geological Survey, evaluating the Bradley Mining Company's request for an extension of the present contract which would cost an additional $34,500.00 over the $53,000.00 authorized.

Mr. Vhay proposes an alternate drilling program from that proposed by Mr. Joralemon; however, we feel that if additional drilling is to be done it should await the completion of both contracts Idm-E453 and E173 and an appraisal of the results.

The DMEA has outstanding $256,836.00 in contracts in the immediate Stibnite area, and the results have been discouraging for the amount of exploration done.

By Field Team, Region I, NW District

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Noted — JSV.
John S. Vhay, Acting Member
U. S. Geological Survey

Enclosure

cc: USGS (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

February 11, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John S. Vhay, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2636 (antimony), Bradley Mining Company, Yellow Pine Mine, Valley County, Idaho, Contract No. Idm-E453. Recommendation for amendment to extend contract.

On November 15, 1954, an application was received from the Bradley Mining Company which proposed an extension to Contract Idm-E453. The proposed work, detailed in a report by Mr. Peter Joralomon, calls for an additional 4,000 feet of drilling from the surface, the location of the proposed holes being shown on an accompanying map. My memorandum discusses the proposed drill holes and suggests alternate positions from which drilling could be done.

It should be pointed out that the area covered by this application has had very important mineral production in the past, almost all being from the Yellow Pine and Meadow Creek mines. According to John R. Cooper[1], to the end of 1945, 1,184,079 tons of ore were mined from which 95,358 tons of concentrates were obtained; these contained 831,829 units of tungsten trioxide, 14,981 tons of metallic antimony, 101,437 ounces of gold, and 592,211 ounces of silver. Although the results of the DMEA exploration to date have not been too encouraging, the possibility of discovery has not been by any means eliminated, and if a discovery is made it is likely to be an important one. This is especially true of the project proposed in the present application, because if it can be demonstrated that a major north-south shear zone occupies the East Fork valley, then an important new target is available in this area.

Joralomon's report, which is the main supporting document in the application, shows the use of an important geologic technique, namely, the mapping of alteration zones in the quartz monzonite, and arrives at a new picture of possible ore controls in the district. His so-called

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[1] Cooper, John R., Geology of the tungsten, antimony and gold deposits near Stibnite, Idaho: USGS Bull. 969-F, 1951, pp. 154-155.

"East Fork" fault zone, if present, and the intersections of this fault zone with northeast and northwest zones of shearing and alteration, gives us a number of new exploration targets to shoot at.

The possible importance of such an ore control is indicated by the drilling being carried out at present in the Scout Ridge area, where two holes have already intersected antimony-gold ore of good grade. Previously it was thought that only the Meadow Creek fault zone was the primary controlling factor.

My over-all objection to the proposed three holes, discussed below, however, is that none of them, as located, really prove or disprove the existence of the East Fork fault zone. If this fault zone is present as inferred by Joralemon and shown on the map accompanying the application, then, as pointed out above, it offers a large target of major importance to this whole area. For that reason, alternate drill holes have been proposed; the first objective of these holes is to prove or disprove the East Fork zone.

I cannot agree with some of the details of Joralemon's report. Among these are the statement that the location of gullies and swales is controlled by the alteration along faults (which I feel is disproved by a study of his own map) and statements in paragraph 2, page 2 regarding the East Fork fault having been shown to be a channelway for the ore solutions; it must first be proved that the East Fork fault zone exists before such positive statements can be made.

With regard to the three drill holes proposed in Joralemon's report, I feel strongly that the DMEA should not participate in the drilling of DDH No. 1; DDH No. 2 may be justified, but DDH No. 3 cannot be justified where presently located; it should be located somewhat farther to the east and south. These proposed holes are discussed below:

Proposed DDH No. 1:

Should not be done under the DMEA program. On the ridge south of Midnight Creek some alteration is seen, it is true. Part of the alteration appears to be on northeasterly-trending fractures which lie on the projection of the suspected Fiddle Creek fault; farther southeast up the ridge the alteration appears neither as intense nor as wide as shown on the map. J. R. Cooper's map of the Cinnabar tunnel (Plate 40, USGS Bull. 969-F, 1951) shows no strong zone of fractures where they should occur if Joralemon's map is correct.

Proposed DDH No. 2:

This hole, and possibly one other hole at this location, could be drilled under a DMEA contract. The location and direction of this hole, however, could be considerably improved. A hole at approximately 27,800N, 22,200E drilled N. 80° W. at -35°, would check the East Fork fault and the Fiddle Creek fault, and also test the ground between the two faults. An additional hole at about 28,500N, 22,150E, drilled

S. 40° W., at -40°, would give another check on the East Fork fault and on the intersection of this fault with the northwest-trending structure, which comes southeast out of the Yellow Pine open pit. I do not believe, however, that an ore body anything like the Yellow Pine ore body can underlie this area because, although a fairly large area of no outcrops lies around the intersection of Fiddle Creek with the East Fork, no alteration shows up in the outcrops around this intersection, and on the basis of Joralemon's own assumptions on the importance of alteration, this area does not appear to be too favorable.

Proposed DDH No. 3:

This hole can probably be justified as a check on the possible East Fork fault, the alteration of ore along the fault, and its intersection with a northeast zone. The alteration along the East Fork valley and on the suspected northeast zone, however, is apparently considerably less at the latitude of DDH No. 3 than that found along co-ordinate 24,000N and for that reason it is felt that a hole located near 24,100N, 22,150E, drilled due west at -35°, would have a better chance of success. At any rate, whether a hole is drilled at the latitude of DDH No. 3 or of the above-described location, it should be started on the east side of the valley in order to thoroughly test the full width of the East Fork fault zone.

If an amendment for additional drilling on this project is to be granted, it is felt that the first, and most important, objective is to prove or disprove the inferred East Fork fault; the program outlined below is suggested with this in mind.

First, drill a hole at approximately 24,100N, 22,150E, due west at -35°, 900 to 1,000 feet; this would check the East Fork structure, and also the strong alteration shown along the road on the west side of the valley. A second hole at approximately 25,550N, 22,250E, west at -40°, 900 to 1,000 feet would check the East Fork structure, and also its intersections with one possible northwest structure and one possible northeast structure. Then, if the East Fork structure is proved to be present by these first two holes, holes at approximately 27,800N, 22,200E, N. 80° W., at -35°, and 28,500N, 22,150E, S. 40° W., at -40°, could be drilled to check the intersections of the East Fork structure with the possible Fiddle Creek fault and the northwest-trending zone coming southeast out of the main Yellow Pine open pit. On the other hand, if the first two holes do not prove the presence of the East Fork structure, it is believed that no more drilling should be done along it.

Distribution:
DMEA (4)
USBM (2)
USGS (SRO)
Docket
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

February 4, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

We are enclosing the Government, Docket, and Division copies of Amendment No. 4 signed by John D. Bradley for the Bradley Mining Co. This amendment extends the completion time from 24 to 33 months.

Distribution of this amendment is being made in the usual manner.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

Enclosures
cc: USBM(2)
Puffett
USBM(AD)

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

January 20, 1954

Mr. J. D. Bradley, President
Bradley Mining Company
1022 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-8453

Dear Mr. Bradley:

Reference is made to Mr. K. G. Wallace's letter of November 22, 1954, requesting a time extension for the cited contract.

Enclosed are the original and six copies of Amendment No. 4 signed by the Administrator. This amendment extends the completion time from 24 to 33 months.

If this amendment meets with your approval, please sign all copies, retain the Operator's copy, and return the remaining copies to this office.

Sincerely yours,

John S. Vhay
Acting Member, DMEA
Field Team, Region I
Northwest District

Enclosures
cc: K. G. Wallace, Stibnite, Idaho
DMEA(2)
USBM(2)
Duffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

January 15, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Contract No. Idm-E453

Dear Mr. Selfridge:

Transmitted herewith are the original and three copies of an application (with three copies only of map), dated November 8, 1954, submitted by the Bradley Mining Company for further work in the Yellow Pine area. This would amount to an extension of their present contract.

This application was held here pending preparation of a memorandum which we had expected to send in with it discussing the proposal and which we thought could be prepared within a matter of a few days. This memorandum was partly written but unfortunately became sidetracked in favor of more urgent work, and the result is that our sending in the application has been delayed far beyond what it should have been. It is enclosed herewith and we expect that the memorandum discussing the project will be forwarded to you within a very short time.

Sincerely yours,

A. E. Weissenborn per J. S. V.

A. E. Weissenborn
Executive Officer, Northwest District
DMEA Field Team, Region I

Enclosures
cc: DMEA(Orig.&3)
USBM(2)
Puffett

HEAD OFFICE:
425 CROCKER BLDG.
SAN FRANCISCO 4

RECEIVED

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

REFER TO	ACTION	NOTED	DATE
al			
Jack			
Gullard			
Don			
4 SBM w/ cys attachments			
ANSWERED			

November 8, 1954

Mr. A. E. Weissenborn
Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Subject: Docket No. DMEA 2636
(Antimony)
Contract No. Idm-E 453
Valley County, Idaho

Dear Mr. Weissenborn:

We are herewith submitting application for extending the subject Defense Minerals Exploration Administration contract. The proposed diamond drilling program was discussed with you and members of your staff at your office on September 1, 1954. Enclosed are several copies of a report and map prepared by Mr. Peter Joralemon, consulting geologist to the Bradley Mining Co., detailing the proposed work.

The work recommended by Mr. Joralemon will require an additional 4000 feet of diamond drilling, the drilling to be done from the surface in the East Fork Area as shown on the enclosed map.

Costs. Enclosed is a copy of a schedule of drilling prices submitted by Nichols and Thompson Core Drilling Co., Inc., Boise, Idaho, for the proposed drilling. The following cost estimates are based on the prices quoted by Nichols and Thompson.

Contractor's Move-In Cost			$ 330.00
Driving Pipe			
0 to 50 ft. increment:	350 ft. at	$9.90, 3,466.00	
50 to 100 ft. increment:	150 ft. at	$16.00, 2,400.00	5,865.00
Drilling			
0 to 250 ft. increment:	1500 ft. at	$5.35, 8,025.00	
250 to 500 ft. increment:	1500 ft. at	$5.90, 8,850.00	
500 to 750 ft. increment:	450 ft. at	$6.70, 3,015.00	
750 to 900 ft. increment:	50 ft. at	$7.50, 375.00	20,265.00

RECEIVED
NOV 15 1954
U. S. G. S.
SPOKANE, WASH.

Cementing or Reaming		
1,150 ft. at $2.65	$3,047.50	$ 3,047.50
Total contractor's diamond drilling cost		$29,507.50
Technical Services -- project will require 6 months (150 working days) to complete		
Geological Consultant - 6 days at $50.00 -	$300.00	
Engineer - 2 hrs./day for 150 working days at $2.50	750.00	
Accountant - 1 hr./day for 150 working days at $2.50	375.00	$ 1,425.00
Operating Materials and Supplies		
1,000 ft. 1-inch pipe at $0.20	$200.00	
75 core boxes at $4.00	300.00	500.00
Drill Site Preparation		
60 hrs. tractor work at $10.00/hr.		600.00
Analytical Work		
400 antimony assays at $2.00	800.00	
400 gold assays at $1.00	400.00	
50 tungsten assays at $3.00	150.00	1,350.00
Contingencies		1,117.50
Total estimated cost of additional work		$34,500.00

- - - - - - - - - - - -

The following tabulation is provided to give a detailed breakdown of the footages and costs shown above as contractor's diamond drill costs.

Contractor's Move-In Cost		$ 330.00
Hole No. 1 (500 ft., no overburden)		
Drilling 0 to 250 ft. - 250' at	$5.35 1,337.50	
250 to 500 ft. - 250' at	$5.90, 1,475.00	
Cementing or Reaming - 150 ft. at	$2.65 397.50	$ 3,210.00

Hole No. 2 (800 ft., 100 ft. overburden)			
Driving Pipe	0 to 50 ft. - 50' at $9.90,	495.00	
	50 to 100 ft. - 50' at $16.00,	800.00	
Drilling	100 to 250 ft. - 150' at $5.35	802.50	
	250 to 500 ft. - 250' at $5.90	1,475.00	
	500 to 750 ft. - 250' at $6.70	1,675.00	
	750 to 800 ft. - 50' at $7.50	375.00	
Cementing or Reaming	200 ft. at $2.65	530.00	6,152.50
Hole No. 3 (700 ft., 100 ft. overburden)			
Driving Pipe	0 to 50 ft. - 50' at $9.90	495.00	
	50 to 100 ft. - 50' at $16.00	800.00	
Drilling	100 to 250 ft. - 150' at $5.35	802.50	
	250 to 500 ft. - 250' at $5.90	1,475.00	
	500 to 700 ft. - 200' at $6.70	1,340.00	
Cementing or Reaming	200 ft. at $2.65	530.00	5,442.50
Follow-Up Drilling	(5 400-ft. holes, average 60 ft. overburden each)		
Driving Pipe	0 to 50 ft. - 50' at $9.90,	495.00	
	50 to 60 ft. - 10' at $16.00	160.00	
Drilling	60 to 250 ft. - 190' at $5.35	1,016.50	
	250 to 400 ft. - 150' at $5.90	885.00	
Cementing or Reaming	120 ft. at $2.65	318.00	
		2,874.50	
	5 holes		14,372.50
	Total contractor's diamond drill cost		$29,507.50

- - - - - - - - - - -

Date of Amendment: The effective date of the amendment should be May 1, 1954 and as drilling can only be done during the summer months, a period of 18 months should be provided in which to complete the contract. This will allow two summer seasons in which to complete the drilling.

Claims: The mining claims that may be benefitted by the proposed exploration are shown on the enclosed map. Six of the twelve claims shown are already listed in the contract. These claims are: Monday No. 6, Monday No. 7, Monday No. 8, Monday No. 10, M.W. No. 1, and M.W. No. 2.

The following six claims, all unpatented, should be added to the contract (book and page numbers are shown at which each of the claims is recorded in the office of the Recorder of Valley County, Cascade, Idaho).

M.W. No. 3	Book	6	Page	277
M.W. No. 17	"	12	"	502
Meadow Quartz No. 22	"	6	"	289
Meadow Quartz No. 23	"	12	"	506
Meadow Quartz No. 24	"	12	"	505
Meadow Quartz No. 25	"	6	"	246

We trust that this proposed amendment will meet with your approval.

Very truly yours

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Encl.

5 cc's: DMEA

////////////////

P. O. Box 2057 505 South 16th Street

October 8, 1954

Bradley Mining Company
Stibnite, Idaho

ATTENTION: Mr. Keith G. Wallace

Gentlemen:

Confirming our recent conversation regarding your proposed four thousand foot drilling program for the 1955 season, we are very pleased to quote you the following prices:

I. SURFACE DRILLING
- A. 0' to 250' @ $5.35 per linear foot
- B. 250' to 500' @ 5.90 " " "
- C. 500' to 750' @ $6.70 " " "
- D. 750' to 900' @ $7.50 " " "
- E. Pipe driving:
  1. 0' to 50' @ $9.90 per linear foot
  2. 50' to 100' @ 16.00 " " "
  3. 100' to 150' @ 20.00 " " "

II. CEMENTING @ $2.65 per linear foot

III. REAMING @ $2.65 per linear foot

IV. MOBILIZATION @ $330.00

We wish to thank you for the opportunity to be of service to you. In the event that you wish to accept the prices and wish us to do the drilling, please contact us at least 60 days prior to the starting date.

Yours very truly,

NICHOLS & THOMPSON CORE DRILLING CO., INC.

Donald F. Nichols

Donald F. Nichols, Business Manager

August 30, 1954

Mr. John D. Bradley
Bradley Mining Co.
1022 Crocker Building
San Francisco 4, California

Dear Mr. Bradley:

Re: Future Exploration,
Stibnite, Idaho

Past exploration work in the Stibnite district has been directed almost entirely toward probing the Meadow Creek fault, because of its obvious relation to the Meadow Creek and the Yellow Pine ore bodies. With the exception of the recent development in the DMA Tunnel, this exploration has been generally disappointing.

Because of the negative results of the previous exploration, geologic work this summer has been largely directed toward determining less obvious but still possible ore controls. The exploration program outlined below has evolved from this work.

The general lack of outcrops in this area makes impossible the actual mapping of structural geology. However, I have found a close correlation between rock alteration and faulting in the district, and am submitting herewith an interpretive geologic map on which structures are inferred from alteration evidence. The three degrees of alteration shown on the map also represent three degrees of fracturing. The fresh monzonite weathers in large rounded boulders. Altered monzonite weathers to flat-sided pieces and can seldom be found in sizes of greater than a foot diameter. The intensely altered rock, shown on the map in red, is so heavily fractured that it can be found only in small chips, degrading rapidly into soil.

The relative lack of resistance to weathering of the intensely altered material allows a topographic expression in the form of gullies or swales. The marked parallelism of gullies in the district leads to the further inference that these gullies are also fault-controlled.

With the aid of rock alteration and drainage pattern, the accompanying map has been prepared. It shows a strong possibility of the presence of faults not previously recognized. Alteration along these faults is hydrothermal and could be accompanied by metallization.

The modified structural picture in the Stibnite district is that of a strong central fault spine lying in the East Fork valley parallel to the Meadow Creek fault, with southwest branches to

the west and southeast branches to the east. This herringbone pattern furnishes several three-way fault intersections, which should be favorable loci for ore deposition.

The large Yellow Pine ore body occurs at the point of convergence of three main fault systems, one trending northerly, one to the northeast, the other to the southeast. The Meadow Creek ore body, which is smaller and more elongate than the former, lies at and near the intersection of two fault systems, one trending north, the other northeast. Each of these deposits is enclosed by a larger shell of moderate to intense alteration. Similarly the smaller deposits (DMA Tunnel) occur near fault intersections within strong shells of alteration.

The accompanying map shows the patches of alteration, in places intense, that may be found along the edge of the East Fork valley. These patches are commonly isolated from the Meadow Creek fault alteration belt, and must be considered as indications of a nearly completely buried belt of alteration lying along the floor of the East Fork valley. The presence of metallization along this belt where exposed (gold ore exposed at the foot of the DMA Tunnel road) shows that the East Fork fault has acted as a channelway for ore solutions. At the south end of the Yellow Pine pit, two narrow but relatively rich stibnite veins trending southeast along the East Fork valley have been cut in diamond drill holes. The drilling done in this vicinity indicates that this East Fork zone has channeled all or most of the ore at the south end of the pit.

Future exploration here should be directed toward the East Fork valley at zones of multiple fault intersections. I strongly recommend that the Bradley Mining Co. and the Defense Minerals Exploration Administration consider a surface diamond drillling program, not to exceed 4000 feet, to explore the East Fork canyon in the areas discussed below.

Three preliminary target areas are shown on the accompanying claim map. Each area should be explored by one drill hole. If these give positive results, they should be followed by secondary drilling to determine lateral extent in each zone.

The first target, on the south flank of Midnight Creek, is neither in the East Fork nor at a fault intersection. It lies in a southeast belt of intense alteration, and outcrops containing lenses of stibnite have been found within the zone. It may be significant that, relative to the Yellow Pine ore body, this zone occupies the same position to the south as the Homestake ore body does to the north. Both lie along the east edge of the arcuate border of faulting, equidistant from the Yellow Pine pit. I have proposed an easterly hole, drilled for 500 feet at -20° to explore this zone. As the target is elongate, secondary drilling should explore it along its northwest trend.

The second target is at the three-way intersection of the East Fork fault series and the inferred Fiddle Creek fault. The tails of stibnite ore leaving the south end of the pit trend toward this target. The old Monday Tunnel, driven along the Meadow Creek fault, intersected 160 feet of 1% antimony ore directly below Fiddle Creek. The old reports give no trend to this ore, and the tunnel is no longer accessible. However, it seems reasonable to assume that this ore lies at the intersection of the Meadow Creek and the Fiddle Creek faults. If this is true, then the Fiddle Creek fault has a control on ore deposition. The proposed target is at the intersection of these two ore bearing faults and a third, unexplored structure. The proposed initial drill hole here, about 800 feet long, is aimed north at -45° to explore this intersection. Because the target is expected to be more or less circular, secondary drilling should radiate away from the core along the intersecting faults.

The third target is also a three-way intersection; the Scout Ridge, the East Fork, and the southwesterly fault zones. The bulldozer cuts southwest of this target have exposed a broad zone of gold mineralization as well as small pockets of scheelite and stibnite. Scheelite can also be found irregularly scattered through the thick overburden northeast of these cuts. The Scout Ridge fault is known to contain stibnite southeast of the intersection. The East Fork fault is metallized to the south of this area. The third target therefore lies at the intersection of three ore-bearing faults. The initial drill hole here, about 700 feet long and at a -30° angle, is aimed at right angles to the southwest fault. This target again is circular and secondary drilling should radiate away from the core.

Any exploration program in a district with the past great antimony and tungsten production history of Stibnite should be looked upon with interest. The importance of an exploration project based on these three targets to future Stibnite exploration must be emphasized. The success of any one of the three will greatly alter the ore-finding philosophy for this district. So it is with wholehearted enthusiasm that I recommend this project to the Bradley Mining Co., and the Defense Minerals Exploration Administration.

Very truly yours

Peter Joralemon

Peter Joralemon
Consultant to Bradley Mining Co.

PJ/ja

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Ching
J. L. Kinnear
Talbot
Selfridge
Fry Johnson

JAN 10 1955

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

In accordance with your letter of December 2, 1954, recommending an extension of the completion period under the subject contract, we are forwarding the original and five copies of a proposed Amendment No. 4, signed by the Administrator.

If you and the Operator find the proposed amendment in order, please have the latter sign all six copies and make the usual distribution thereafter.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (246)

Enclosures

APPROVED:

J. H. Hedges (246)
Member, Bureau of Mines

Thor H. Kiilsgaard (246)
Member, Geological Survey

MChing/gla
1-6-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
T.H. Kiilsgaard, Rm. 5224
Code 700
Mr. Ching

R.C.B.

Ching

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

December 22, 1954

Memorandum

To: Acting Assistant Solicitor, DMEA

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-8453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Will you kindly amend the subject contract by extending the completion period from 24 months to 33 months. The period for repayment of royalties should be increased from 10 years to 12 years.

In the event you determine that Article 9 of the subject contract should be further amended, consideration should be given to the use of the same provisions currently being contemplated with respect to Docket No. DMEA-1284 with the same company.

/s/ Michael Ching

Michael Ching

MChing/gla
12-22-54
cc to: Docket file
Code 700 contract file
Mr. Ching

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

December 2, 1954

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

Enclosed is a letter dated November 22, 1954, from Mr. K. G. Wallace, assistant manager of the Bradley Mining Company's Yellow Pine mine, in which a request is made to extend the completion date of the contract to permit finishing the diamond drilling. Originally the contract work was to have been completed within 14 months. Amendment No. 1 extended the completion period to 24 months. According to Amendment No. 1 the expiration date is November 25, 1954.

The information we have shows that the following items still remain to be completed:

1,210 feet of diamond drilling at	$4.75 per foot
400 feet of standpiping at	$9.00 per foot
150 feet of reaming and casing at	$2.65 per foot

Total unexpended funds remaining in the contract are $9,719. These figures are close approximations, being based on information received on the operator's monthly reports and in two letters we have received this month.

According to the enclosed letter from Mr. Wallace and to one he sent us on November 10, 1954, the diamond drilling in the Scout Ridge area has intersected a fairly promising mineralized zone. Hole MC-60 intersected 30 feet which averaged 0.111 ounce per ton gold and 1.19 percent antimony. Hole MC-58 intersected a zone 30 feet of which averaged 0.109 ounce per ton gold and 35 feet of which averaged 0.61 percent antimony. Thus, the dollar value per ton of this zone is roughly equivalent to that of the ore in the Yellow Pine open pit, (based on operator's statement).

Winter weather conditions will soon make it impracticable to continue drilling this fall, and it will probably be June or July before drilling from surface locations can be resumed. Therefore, we recommend that the time for completion of the contract work be extended another 9 months, which should be sufficient to allow all drilling to be completed.

By Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure

cc: USBM (2)
USBM (AD)
Puffett

HEAD OFFICE:
425 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 608

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER

STIBNITE, IDAHO

Defense Minerals Administration
RECEIVED
DEC 13 1954

November 22, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA 2636
(Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E 453

Gentlemen:

This will acknowledge and thank you for your letter of November 15, 1954, giving approval for additional drilling of the ore zone along the east side of Scout Ridge.

Hole MC-60 has been completed to a length of 488 feet. As mentioned in my letter of November 10, the shear zone was entered at 300 feet. Assays for the zone were as follows:

Hole MC-60	Oz/ton Au	% Sb
300 - 305	Sludge Lost	
305 - 310	.040	.25
310 - 315	.055	.57
315 - 320	.085	.72
320 - 330	.135	3.76
330 - 335	.105	.82
335 - 340	.135	.26
340 - 345	.095	.39

Assays are as yet incomplete, but beyond 345 feet are generally low (the rock beyond 345 feet was alternately altered and fresh granite). A narrow mineralized zone from 465 to 470 feet assayed 0.205 oz/ton gold, with antimony assays not yet available. The ore zone proper (from 315 to 345 feet) averages 0.111 oz/ton gold and 1.19% antimony.

The trend of the ore zone, as indicated by holes MC-58 and MC-60, seems to be slightly east of north. Hole MC-61 was collared about 300 feet north of MC-60 and drilled west (collar coordinates 24,028 N and 23,388 E, elevation 6566, inclination minus 47°). We estimated the overburden in the area to have a depth of not over 50 feet; however, the hole is today down to 173 feet and is still in overburden. We believe the hole has deflected up and therefore should be abandoned. Further drilling should, whenever possible, be collared at the north end of Scout Ridge and directed northeast to prospect the area that hole MC-61 was intended to prospect. Holes thus located should avoid the overburden encountered in hole MC-61.

RECEIVED
NOV 26 1954
U.S.F.S.
SPOKANE, WASH.

Our weather this fall has been extremely mild and we would like to continue this drilling program as long as weather conditions permit. Perhaps drilling could be continued until the end of the year and resumed early next spring. In order to do this, however, it will be necessary to extend the time allowed by the contract. From your letter of November 5, 1954, we gather that you favor extending the completion date of the contract, and we will, therefore, continue drilling unless we receive word to the contrary from you.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA, Spokane

XXXXXXXXXXXXXXXX
No. 157 Howard Street
Spokane 4, Washington

November 15, 1954

Mr. Keith G. Wallace, Assistant Manager
Bradley Mining Company
Stibnite, Idaho

Re: Docket No. DMEA 2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mr. Wallace:

Thank you for your letter of November 10, 1954, enclosing the assay data obtained from sampling the core in diamond drill hole No. MC-58.

The information in your letter regarding the findings in hole No. MC-60 suggests that further drilling of the ore zone from the east side of Scout Ridge is justified. As there remains a substantial amount of unexpended funds for diamond drilling in the contract, we believe these funds should be used to explore along the indicated strike of the zone.

Therefore, this letter is a confirmation of your interpretation of the contract and gives approval for the additional drilling as suggested in your letter.

By Field Team, Region II

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2) w/2 cys incoming
USBM (2) "
USBM (AD)
Puffett w/1 cy incoming

HEAD OFFICE:
435 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

November 10, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA-2636
(Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract Idm-E 453

Gentlemen:

Your letter of November 5, 1954, has been received. As requested, here are the assays from the ore zone cut by hole MC-58. One assay was spoiled and will be rerun.

Hole MC-58	Oz/ton Au	% Sb
640 - 645 ft.	.035	.11
645 - 650	.110	.41
650 - 655	.030	.10
655 - 660	.035	.10
660 - 665	.040	.78
665 - 670	.020	.10
670 - 675	.030	.06
675 - 680	.025	.08
680 - 685	.025	.76
685 - 690	.090	.42
690 - 695	.105	1.15
695 - 700	Assays to be rerun	
700 - 705	.115	.40
705 - 710	.120	.54
710- 715	.115	.40
715 - 720	.040	.20
720 - 725	.035	.28
725 - 730	.025	.19
730 - 735	Sludge lost	

Assuming the missing assays will run about the same as the assays of the remainder of the samples from the ore zone, then gold from 685 to 715 feet (30 feet) averages 0.109 oz/ton, and antimony from 680 to 715 feet (35 feet) averages 0.61%. The good gold content of the zone makes the dollar value per ton nearly equivalent to that of the ore in the Yellow Pine open pit.

Hole MC-59, drilled on the west flank of Scout Ridge, was completed to a length of 135 feet. A strong shear zone was cut at the granite-quartzite contact, but no ore was found.

RECEIVED
NOV 15 1954
U. S. G. S.
SPOKANE, WASH.

Hole MC-60, now being drilled, is down 310 feet. From 0 to 66 feet the hole was in quartzite. From 66 to 197 feet the hole was in granite, in places sheared and altered, but apparently not ore. The hole was again in quartzite from 197 to 300 feet. At 300 feet it entered a very strong shear zone with fair to good stibnite (this should be the same zone cut by hole MC-58).

With your approval, we propose to continue drilling the ore zone on the east side of Scout Ridge -- it lies along a strong north-trending fault and we believe it is proving to be an extremely promising discovery. We would like to follow the zone north with inclined holes (similar to hole MC-60) spaced at 200 to 300-foot intervals along the strike of the zone.

Your field men, Mr. Puffet and Mr. Anderson, assured us on their last visit that we may use the large amount of unexpended money available in the contract under reaming and casing for diamond drilling. In other words, we can exceed the 6,500 feet of drilling provided for in the contract as long as we don't exceed the total cost specified. If this is the case, there will be enough money remaining to drill several more holes. As we are approaching the contract footage limitation (approximately 888 feet remaining today, or enough to complete hole MC-60 and drill two additional holes) we would appreciate receiving confirmation of the above interpretation of the contract. Additional drilling certainly appears to be justified by results thus far achieved in the Scout Ridge Area.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA, Spokane

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

November 5, 1954

Mr. K. G. Wallace
Assistant Manager
Yellow Pine Mine Smelter
Bradley Mining Co.
Stibnite, Idaho

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Iim-E453

Dear Mr. Wallace:

In answer to your letter of October 28, 1954, we believe that diamond drill holes MC-59 and MC-60 are well located and this letter will authorize you to go ahead with them. We would appreciate receiving the assay results for hole MC-58 as soon as possible.

In answer to the last paragraph of your letter, if weather conditions do stop the drilling before it is completed, please let us know and we will ask our Washington office to give you an extension on the completion date so that the project can be completed next year.

By Field Team, Region II

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: Bradley Mining Co.
1022 Crocker Building
San Francisco, California

DMEA (2) w/2 cys incoming
USBM (2)
Puffett

COPY

COPY

HEAD OFFICE:
425 Crocker Bldg.
San Francisco 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

RECEIVED

October 28, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA 2636
(Antimony)
Contract No. Idm-E 453

Gentlemen:

Diamond drill hole No. MC-58, drilled in the Scout Ridge Area (authorized by Amendment No. 3 to the subject contract) has today been completed to a length of 735 feet. The location of this hole is shown as "Proposed D.D.H." on the map titled "Geologic Map of Scout Ridge Area", submitted with our request for Amendment No. 3, dated August 7, 1954.

Briefly, the hole was in quartzite for most of the distance drilled. The hole entered bedrock at 27 feet and the first few feet of quartzite beyond 27 feet had small stringers and disseminations of stibnite. At about 650 feet the hole entered the shear zone that borders the east flank of Scout Ridge. From 650 to 717 feet, the rock was intensely altered granite carrying appreciable amounts of stibnite and pyrite. Assays for this zone are not yet available, but the core looks good -- if not quite ore, it is at least "ore type" mineralization. At 717 feet the granite turned fresh with only patches of alteration to the end of the hole.

Mr. Peter Joralemon recommends the following two holes be drilled next; I am writing to obtain your approval of this drilling.

Hole MC-59. To be collared at coordinates 23,360 North and 22,475 East, bearing N 75° E, inclination minus 45°. This hole will be collared 150 feet west of the collar of MC-58 and drilled in the same direction. It is believed that the granite-quartzite contact on the west flank of Scout Ridge should be investigated, especially as the quartzite in the first part of MC-58 contained stibnite. A 250 to 300-foot hole should be sufficient for this purpose.

Hole MC-60. To be collared at cooredinates 23,670 North, 23,025 East, bearing N 75° E, inclination minus 45°, length 350 feet. This hole will be drilled parallel to MC-58 from near the crest of Scout Ridge, about 160 feet north of the line of hole MC-58. It will be in quartzite for about 200 feet, in which distance it may cut the belt of stibnite occurrences exposed in surface cuts on Scout Ridge. The final 150 feet of the hole will explore the antimony-bearing shear zone cut by hole MC-58.

I note that the completion date of this contract is November 25, 1954. Will it be possible to extend the completion date one year, in case the weather forces us to suspend drilling this season before the the contract is completed?

Very truly yours

BRADLEY MINING CO.

/s/ K. G. WALLACE
K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

October 18, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

Enclosed are the original and two signed copies of Amendment No. 3 to the above-cited contract.

Distribution of this amendment is being made in the usual manner.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: Finance Office w/encl.
USBM (2)
Puffett

xxxxxxxxxxxxxxxxx

So. 157 Howard Street
Spokane 4, Washington

October 13, 1954

Bradley Mining Company
1022 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Gentlemen:

Enclosed are several copies of a proposed Amendment No. 3 to the captioned contract, executed by the Administrator.

If the terms and conditions of this amendment meet with your approval, please sign all copies, retain that copy marked for the Operator and return the remaining copies to this office.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: DMEA (2)
USBM (2)
Puffett

Surname copy

700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Ching
Chandler
Selfridge
Ellis
Johnson

OCT 4 1954

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

Enclosed are the original and five copies of a proposed Amendment No. 3 to the captioned contract, executed by the Administrator.

If you and the Operator find the proposed amendment in order, please have it executed by the latter and make the usual distribution of the copies thereafter.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

T. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

MChing/gla
9-27-54
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
T. H. Kiilsgaard, Rm. 5227
Code 700
Mr. Ching

R.C.S.

File Copy
Surname
Ching
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

September 7, 1954

Memorandum

To: Acting Assistant Solicitor, Defense Minerals

From: Chief, Rare and Miscellaneous Metals Division

Subject: Proposed Amendment No. 3
Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Will you kindly have prepared Amendment No. 3 to the captioned contract along the lines of the draft attached to the Field Team's letter dated August 27, 1954.

Ernest W. Ellis, Chief
Rare and Miscellaneous
Metals Division

MChing:ep 9-7-54

Copy to: Docket
Admr's Reading File
Code 700
Mr. Ching

Surname 700

Ching
Ellis
Renick
Kilbourne
Hedges
Selfridge
Mitchell

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SEP 3 1954

T E L E T Y P E

MChing

DMEA-Department of the Interior

14X4401(01) Revolving Fund,
Defense Production Act (Interior)
(Allocated Working Fund to the
Office of the Secretary)

[redacted]

A. E. WEINSTEBORN, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION II
SOUTH 157 HOWARD STREET
SPOKANE 4 WASHINGTON

RE:RIFT AUGUST 27 BRADLEY MINING COMPANY DOCKET 2636 YOUR SUGGESTED AMENDMENT UNDER PREPARATION. MEANTIME YOU MAY AUTHORIZE APPLICANT TO START DRILLING NEW AREA AS PROPOSED.

George C. Selfridge

George C. Selfridge, Chairman
Operating Committee

MChing/am
Sept 3-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
E. L. Newcomb, Rm. 5227
Code 700
Mr. Ching
Confirmation to Region II

R.C.S.

Defense Minerals Administration
SEP 2 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 27, 1954

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Proposed Diamond Drilling
Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

The Bradley Mining Company has submitted a request, copies of which are attached, for an amendment to drill a diamond drill hole in the Scout Ridge area, which is located outside of claims covered by the contract.

Peter Joralemon, consulting geologist for the Bradley Mining Company, has completed a geological survey and has recommended an 800-foot hole dipping -20°, which is described in his report and illustrated by the map accompanying the Bradley Mining Company's amendment request.

Drilling on this project to date, although exploring a geologically favorable area, has not yet been successful in finding ore. At least one additional hole is contemplated in the Airport area. Joralemon's recent work indicates that the adjacent Scout Ridge area is also worth some exploratory work. On review of his maps and proposal, plus review of the general situation, the Field Team would be willing to approve the suggested drilling. No additional funds are required but the Field Team is unable to authorize the drilling as it will be done on claims not included in the contract. A suggested amendment is attached and we hope for a quick decision so that if the amendment is approved drilling can continue without interruption.

By Field Team, Region II

A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew
Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
Nickelson

SAMPLE
(From Reg. II)

Exploration Project Contract
Bradley Mining Company
Docket No. DMEA-2636

Amendment No. 3

It is agreed this _____ day of _____

between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company

that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract add the letter "E" after the letter "D" and add "Geologic map of Scout Ridge Area" before the words "attached hereto and made a part hereof."

2. In Annex I add the following claims:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
Meadow Quartz No. 13	12	490
Meadow Quartz No. 14	12	491
Meadow Quartz No. 15	12	493
Meadow Quartz No. 16	12	494
Meadow Quartz No. 17	12	473
Meadow Quartz No. 18	12	475
Meadow Quartz No. 19	12	510
Meadow Quartz No. 20	12	509
Meadow Quartz No. 21	12	508
Meadow Quartz No. 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14, and 15, T. 16 N., R. 9 E., Boise Meridian, Valley County, Idaho.

3. In Exhibit "A" under the heading "Description of the Work" delete the word "four" in the third line of the first paragraph and substitute the word "five."

In Amendment No. 2, item 3, add "and "Exhibit E" after the words "Exhibit B" in lines two and four of the paragraph in quotes.

4. In Exhibit "A" under the heading "Estimated Costs of the Project" subheading "Agreed Unit Costs" add "and Scout Ridge Area" after the words "Stibnite Airport Area."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

COPY

August 7, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA 2636 (Antimony)
Contract No. IDM-E 453
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho

Gentlemen:

Enclosed please find six copies of a report and map prepared by Mr. Peter Joralemon, consulting geologist to the Bradley Mining Co., requesting an amendment to the subject contract. The purpose of the amendment is to enlarge the Airport Area described in Amendment No. 2 to include a group of claims to the northeast of the group included in Amendment No. 2. This proposed amendment will in no way change the total estimated cost of the project.

If this amendment is approved, the following mining claims should be added to the contract:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
" " " 13	12	490
" " " 14	12	491
" " " 15	12	493
" " " 16	12	494
" " " 17	12	473
" " " 18	12	475
" " " 19	12	510
" " " 20	12	509
" " " 21	12	508
" " " 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14 and 15 in Township 18 North, Range 9 East, Boise Meridian.

We earnestly hope that if at all possible this proposed amendment be approved prior to September 1st so as not to disrupt the continuity of the diamond drilling program now in progress.

RECEIVED
AUG 11 1954
U. S. G. S.
SPOKANE, WASH.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

REQUEST FOR AMENDMENT, DOCKET No. DMEA 2636,
CONTRACT No. Idm-E 453

GENERAL

Exploration in the vicinity of the mill and airport at Stibnite has revealed the presence of a strong belt of alteration, faulting, and metalization trending northeasterly and lying along Meadow Creek valley between the Meadow Creek Mine and the junction of the valley with the East Fork of the South Fork of the Salmon River.

The results of this exploration in determining a new structure have extended the area of interest from the immediate vicinity of the airport to a strip running northeast and north along Meadow Creek and the East Fork Canyon 3000 feet north of the Meadow Creek junction. For this reason, the Bradley Mining Co. requests an amendment to Contract No. Idm-E 453 to enlarge the airport area to include as additional area mining claims Meadow Creek No. 15, and Meadow Quartz Nos. 10, 13, 14, 15, 16, 17, 18, 19, 20, 21, and 27. The location of the original claims included in the airport area and the new claims included in this amendment is shown on the accompanying index map.

A long diamond drill hole will be drilled in the immediate future in the vicinity of the airport to explore the southeast side of Meadow Creek valley. This area has been hitherto unexplored, and further drilling here will be dependent upon the results of the initial work.

The surface drilling season at Stibnite is limited to the summer and autumn months, so exploration plans should be readied in advance to allow the maximum amount of exploration work during this short season. For this reason, the Bradley Mining Co. wishes to submit this request for amendment to the present DMEA contract to be used in the event that diamond drilling in the vicinity of the southwest end of the airport should yield only negative results.

GEOLOGY

Known faults in the Stibnite district have a prominent physiographic expression. Parallelism of major valleys in the area (Meadow, Fiddle, Hennessy, Sugar, and Garnet Creeks) suggests that drainage here is largely structurally controlled. The most prominent valley in the district is the north-south section of the East Fork of the South Fork of the Salmon River, between the Yellow Pine Mine and the intersection of the East Fork with Meadow Creek.

Recent geologic mapping along this valley has indicated the presence of a strong north-trending fault zone lying in the floor of the canyon. Exploration in this area has been limited, but

occasional exposures of strongly altered monzonite and shear zones, and the presence of stibnite and some tungsten in the valley outcrops suggest that this East Fork fault has acted as a channelway for mineralizing solutions.

A series of southeasterly faults leave the East Fork valley and can be traced by strong zones of alteration for as much as a half mile away from the central canyon. One of these branches from the Meadow Creek fault at the east wall of the Yellow Pine open pit. Another forms the prominent island in the valley in the vicinity of the Cinnabar tunnel. A third forms Scout Ridge, described in more detail below.

Structurally this area may be visualized as having a central north-south spine lying in the East Fork canyon, with northeasterly faults to the west and northwesterly faults to the east to give a herringbone fault pattern.

Scout Ridge

Scout Ridge, shown on the accompanying map, is a prominent hill trending N 20° W, projecting into the East Fork valley. The ridge is underlain by quartzite into which a series of irregular monzonite bodies are intruded. The hill is surrounded on all sides by monzonite of the main intrusive mass, and the quartzite is probably a relatively shallow roof pendant lying in a down-faulted block.

The quartzite has been intensely shattered, probably as the effect of deeper seated faulting on a brittle capping. Although fractures trend in all directions, the greatest number of them strike north to N 30° W, roughly paralleling the direction of elongation of the hill. Major north to northwest faults lie along the east and west boundaries of the ridge and bring quartzite into contact with monzonite.

The quartzite throughout the area contains irregular zones or patches of limonitic fracture coatings. This is the only evidence of alteration seen in the quartzite. Patches of limonitic material also occur in the larger monzonite bodies, and the small dikes have been intensely sericitized. The entire hill gives evidence of having been soaked by altering solutions.

Irregular disseminations of stibnite occur in the quartzite along the eastern flank of the ridge and to a lesser extent on the southwestern edge. In almost every case minor monzonite dikes occur in the antimony zones. The stibnite belt trends northwesterly, but individual bodies are more podlike than elongate. Despite the heavily shattered nature of the host rock, stibnite does not occur as fracture filling veinlets but rather as irregular, coarsely crystalline masses deposited by replacement of the quartzite and monzonite. Grab samples taken from dump material at the various

pits in this area have varied from 3.32 to 59.10% in antimony content.

Exposures along the northern flank of the ridge are rare, and no stibnite has been seen in this area. However, limonite coatings persist north of the known stibnite area, and a zone of intense alteration of the monzonite northwest of the quartzite indicates that mineralization may be expected to persist at least as far northward as the north end of the ridge.

One shallow diamond drill hole, M.C. 41, was put down near the center of the known stibnite area. Detailed information on this hole is not available, as sludge samples were bulked in 25 foot intervals. This hole passed through two zones of antimony mineralization which contained at least 0.5% Sb. The drill hole intersected the east boundary fault and penetrated 55 feet into the altered monzonite. Fresh monzonite was never hit. The generally low core recovery from this hole indicates the persistent shattered nature of the quartzite.

Future Exploration

The Scout Ridge area is known to contain stibnite in quartzite replacement bodies. It is bounded to the east and west by persistent faults which could act as ore channelways. Since quartzite is not a favorable host rock to ore in this district, it seems safe to assume that ore solutions of intensity high enough to replace quartzite could have replaced the more favorable underlying monzonite to a far greater extent. The proposed drill hole, the location of which is shown on the map and sections, is planned to explore at greater depth the quartzite and both the bounding and included monzonite. The hole is located in the area of maximum monzonite exposure on the hill in the belief that the keel of the quartzite body will be shallower here than it is farther to the south. In this locality the hole will also explore the intersection of the two branching east side faults. The hole should be long enough to adequately explore the altered monzonite east of the fault intersection.

The favorable location of this area midway between two known deposits in the district, the strong structural preparation of the rocks, the widespread alteration, and the known stibnite in the inhospitable quartzite join to make this an unusually attractive exploration venture.

Peter Joralemon

Peter Joralemon
Consulting Geologist to
Bradley Mining Co.

Encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 22, 1954

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: DMEA Docket No. 2636 (antimony) Bradley Mining Company, Yellow Pine Mine, Valley County, Idaho, Contract Idm-E453

The recessed contract was discussed with Keith Wallace, assistant manager, on July 13-14, 1954. Mr. Webb Anderson, Bureau of Mines, was present during the discussion.

The Bradley Mining Company has hired Peter Joralemon as a consultant geologist to advise the company in regard to the feasibility of continuing the surface drilling. Mr. Wallace and Mr. Joralemon thought they would be through with their survey about the first of August. They will confer with Roger McConnell at that time and probably submit a diamond drilling program to the Field Team. This drilling program will probably be in the airport area.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Nickelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 12, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

In reply to your letter of June 14, 1954, Mr. Anderson and Mr. Nickelson of the Field Team will be at the Yellow Pine area within the next two weeks. They will at that time investigate the status of the above project.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM(2)
Nickelson

Surname 700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Ching
Kusano
Selfridge
Johnson
Mattenberg

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

JUN 14 1954

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

A review of the captioned contract file reveals that work on this project has been in recess since October, 1953, and was to have been resumed in the Spring of 1954. It is further noted from John A. Bowsher's memorandum of November 17, 1953, that the Operator intended to evaluate the work accomplished and, if possible, meet with the Field Team in Seattle during the recess period.

We would appreciate being advised the status of this project.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

MChing/am
6-11-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
B. Gildersleeve, Rm. B-242-A, GSA
M. Ching
Code 700

APPROVED:

J. H. Hedges
Member, Bureau of Mines (JHH)

D. M. Larrabee
Member, Geological Survey (DML)

R.C.J.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
November 17, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim inspection, Docket No. DMEA 2636 (antimony), Bradley Mining Co., Yellow Pine Mine, Valley County, Idaho Contract Idm-E453

This interim inspection was made Saturday, November 7, 1953. The previous inspection was made September 29 through October 1, 1953 by the writer and Howard B. Nickelson, Geologist, U. S. Geological Survey.

The activity on this project has been recessed since the second diamond drill hole in the Airport Area, DMA-MC56, was bottomed at 748 feet in October. The total contract units completed are 3975 feet of diamond drilling (sch. 6500) excluding pipe driving. The previous totals reported were total length of hole, collar to bottom, which included pipe driving through overburden. The total length of holes, collar to bottom is now 4246 feet, including approximately 271 feet of pipe driving. The vouchers for July and August were received and approved, with deletions. The unexpended funds to September 1, after deletions, were $32,704.49. The correct termination date (previously reported erroneously) is November 25, 1954.

The project consists of surface diamond drilling and the company intends to recess the activities from now to Spring 1954 because of adverse weather conditions. The exploration to date will be evaluated by the Operator, and it is possible that representatives of the Operator will meet with the Field Team in Spokane during the project recess.

Deletions from the Operator's vouchers were discussed with Keith Wallace, Asst. Mgr., and he was advised that more supporting detail of charges should be submitted.

The progress during the interim was 635 feet of core drilling in DDH No. DMA-MC56, Airport Area. The hole is the second one and the core indicates that the geology is very similar to that of the first

hole, the same type of low-gold mineralization. No indication of the objective, - location of lesser faults cutting the main Meadow Creek fault. The log of the hole will be submitted later.

John A Bowsher

John A. Bowsher

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
JAB/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

October 19, 1953

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey and John Bowsher, Mining Engineer, U. S. Bureau of Mines

Subject: Docket No. DMEA 2636 (antimony), routine inspection, Bradley Mining Company, Yellow Pine mine, Valley County, Idaho, Contract Idm-E453

The property was visited on September 29 through October 1, 1953, by Nickelson and on October 1 and 2 by Bowsher. Mr. Keith Wallace accompanied the inspection team.

Airport area

The first hole, MC-55, has been completed to a depth of 750 feet. The second hole, MC-56, has been drilled to a depth of 113 feet--all in overburden. The coordinates of DDH MC-55 are: N. 19,952.08, E. 20,419.44; elevation, 6,546.47; bearing, S. 47° 21'30" E.; inclination, -50°. Hole MC-56 has not been surveyed.

The total contract units completed are 3,612 feet of diamond drilling (sch. 6500). The advance during the interim, since the previous inspection on September 1, 1953, was 644 feet of diamond drilling. The operator has not submitted monthly vouchers for July and August and he has been informed to do so without delay; the vouchers had been withheld because the logging of the holes was not completed. Unexpended funds to July 1 were $48,463.33. The termination date is January 25, 1954.

The contract terms call for only 215 feet of pipe driving from the surface which was probably adequate under the setup while the C.D.H. group was considered. Transferring to the Airport area the pipe driving is now 100 feet on MC-55 and 113 feet on MC-56; bedrock is not yet encountered.

Log and Assays of MC-55

Feet	
0-63'	Overburden
63-179'	Granite and aplite.

Feet	
179-199'	Crushed granite with sulphides. Five-foot samples of the sludge ranged 0.03 to 0.045 percent Au; 0.06 to 0.14 percent Sb.
199-273'	Granite and aplite with occasional crushed zone with minor sulphides. A composite sample 250-275'; 0.03 percent Au, 0.14 percent Sb.
273-281'	Granite, sulphides along fracture planes and in minor crushed area.
281-303'	Granite and aplite with some sulphide along occasional crushed and fractured zone. Composite sample 275-300'; 0.03 percent Au, 0.06 percent Sb.
303-321'	Granite with sulphide along fracture and in crushed area. 305-310', 0.03 percent Au, 0.13 percent Sb; 310-315', 0.03 percent Au, 0.12 percent Sb; 315-320', 0.115 percent Au, 0.17 percent Sb; 320-325', 0.135 percent Au, 0.06 percent Au; 325-330', 0.05 percent Au, 0.12 percent Sb.
321-360'	Crushed granite, low core recovery, sulphides present. 330-335', 0.04 percent Au, 0.05 percent Sb; 335-340', 0.035 percent Au, 0.08 percent Sb; 340-345', 0.015 percent Au, 0.16 percent Sb; 345-350', 0.015 percent Au, 0.12 percent Sb; 350-360', 0.035 percent Au, 0.05 percent Sb.
360-516'	Granite and aplite. Assays in this area: 0.04 percent Au to 0.005 percent Au; 0.07 to 0.04 percent Sb.
516-750'	Granite and aplite. Assays are all low, 0.01 to 0.05 percent Au and 0.04 to 0.08 percent Sb.

The hole has encountered structure but the results of the assay on sludges show no economic ore bodies.

The Airport drilling program will be discontinued as soon as hole MC-56 is drilled to the anticipated depth of 750 feet which will allow the operator to compile and evaluate geological results obtained to date in order to plan future drilling.

The surface drilling will be resumed next spring when the weather permits.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Nickelson

FILE COPY
SURNAME

Chamber

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

SEP 25 1953

Mr. Robert M. Hull
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Bradley Mining Company
Idm-E453, DMEA-2636
Yellow Pine Mine

Dear Mr. Hull:

This office has received a copy of a letter written to Mr. K. G. Wallace, Assistant Manager, Bradley Mining Company, under the names of Messrs. Killagnard and Howard, acting as Field Team Members in regard to the above-cited project. The first paragraph of this letter reads as follows:

> "We note that Amendment No. 2, dated August 21, 1953, does not embody the Agreed Unit Costs for the Stibnite Airport Area. For your information, the diamond drilling will be paid at $4.73 per foot. You should voucher the drilling accordingly."

Please refer to item 4 in Amendment No. 2 to the contract which does provide that the "Stibnite Airport Area" is substituted for the item "C.D.H. Group of Claims" under the heading "Agreed Unit Costs". Therefore, the amendment does provide for the "Stibnite Airport Area" drilling to be on an agreed unit cost basis.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
September 25, 1953

Copy to: Docket
Admr. Reading File
Mr. Ellis
Mr. Chambers

R.C.L. 9-25-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
September 16, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, DMEA Docket No. 2636 (antimony)
Bradley Mining Co., Yellow Pine Mine, Valley County, Idaho
Contract Idm-E453

This interim inspection was made Tuesday, September 1, 1953, in the company of Abdul Saleem, Assistant Engineer-Geologist. The previous inspection had been made by V. Z. Johnson, Mining Engineer, Bureau of Mines, Saturday, July 25, 1953.

The total contract units completed are 2968 feet of diamond drilling (sch. 6500). The advance during the interim was 1596 feet. The Operator's voucher for June 1953 was approved for payment, but not as submitted. The unexpended funds are $48,463.33 and the termination date is January 25, 1954.

Southeast Pit Area

DDH No. DMA-B219, advanced 121 feet and bottomed in altered granite at 291 feet total depth.

All drilling equipment and conveniences removed from the site.

Hennessey Creek Area

DDH No. DMA-B220, collared, and bottomed in fresh granite at 278 feet total depth. The core indicated slight mineralization in the brecciated zones. All sludge (5 foot interval) assayed no better than a trace in gold and the antimony averaged about 0.02 percent (highest 0.04%).

DDH No. DMA-B221, collared, and bottomed in fresh granite at 358 feet total depth. The core was characteristically much like B220 and the sludge assays were about the same.

All drilling equipment and conveniences removed from the site.

North Tunnel Area (underground drill sites)

DDH No. DMA-FC1, advanced 145 feet and bottomed in fresh granite at a total depth of 476 feet. A zone of altered granite, 300-360 feet, showed very slight mineralization. Assay results of the sludge were: gold 0.005 - 0.01 oz, antimony average about 0.05 percent, and WO_3 none.

DDH No. DMA-FC2, collared, and bottomed at 475 feet in fresh granite. The core was predominantly fresh granite with very little mineralization. Sludge assays ran no higher than a trace of gold, and the antimony varied from 0.01-0.04 percent. The core section from 20-30 feet when lamped indicated scheelite, a trace.

All drilling equipment and conveniences removed from underground.

Stibnite Airport Area

The first drill hole, DDH No. DMA-MC55, was collared and advanced to a depth of 219 feet. Ninety feet of pipe was driven through the glacial overburden in preparation of coring. The core for the first 219 feet was mainly fresh granite, except for one section, 180-190 feet, which showed some alteration with accompanying slight sulfide mineralization. The core exhibited no indications of scheelite when lamped.

John A. Bowsher

John A. Bowsher

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
JAB/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
September 15, 1953

Mr. K. G. Wallace, Asst. Mgr.
Bradley Mining Company
Stibnite, Idaho

Subject: Docket No. DMEA 2636 (antimony)
Contract Ida-XA53
Yellow Pine Mine

Dear Mr. Wallace:

We note that Amendment No. 2, dated August 21, 1953, does not embody the Agreed Unit Costs for the Stibnite Airport Area. For your information, the diamond drilling will be paid at $4.73 per foot. You should voucher the drilling accordingly.

Any and all drilling in each area should be vouchered on the agreed unit costs per foot set up for each area, and payment will be accordingly.

You and John A. Boucher, Mining Engineer, U. S. Bureau of Mines, had a discussion regarding the Operator's progress report on Form MF-104A. We quote from a directive from Washington, D.C. as follows:

"Although some items may be grouped together in Exhibit A of the exploration contract, such as '500 feet of crosscutting and drifting,' the work accomplished and the expenditures made for each item should be reported individually on Form MF-104A by the Operator. The Operator should be required to break down items of cost according to the categories under the heading "Operation" on Form MF-104A. If the work performed does not fall within one of these categories it may be listed in the space provided for this purpose under the heading "Operation"."

Our Certifying Officer, Mr. R. J. Hindman, will prepare a work sheet suitable for our mutual records and submit it to you as a suggested procedure.

By DMEA Field Team, Region II

Thor Kiilsgaard, Acting Exec. Officer
U. S. Geological Survey

Thomas E. Mogard, Acting Member
U. S. Bureau of Mines

cc: Bradley Mining Co.
San Francisco, Calif.
DMEA, Wash. (2)
USGS (2)
Certifying Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 10, 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho
Contract Idm-E453 (Amendment No. 2)

Dear Sir:

Enclosed for your files are the Government, Docket and Division copies of Amendment No. 2, concerning the above contract.

By copy of this letter, the Finance Officer's copy is being distributed.

Very truly yours,

9-14

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
Certifying Officer
Quinlan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 1, 1953

Bradley Mining Company
425 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho

Gentlemen:

Enclosed herewith are the original and five copies of proposed Amendment No. 2 to the above-captioned contract, signed by the Administrator.

If the terms and conditions of this amendment meet with your approval, please sign all copies, retain that copy marked for the Operator and return the remaining copies to this office.

If any part of this proposed amendment does not meet with your approval, please return the original and all copies to this office with your comments.

Sincerely yours,

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
DMEA (2)
Nickelson

700
FILE COPY
SURNAME:

Murphy
Ellis
Martin
Chamberlin
Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

AUG 24 1953

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region VI
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-1453
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho

cc
8-24

Dear Mr. Weissenborn:

Enclosed herewith are the original and five copies of proposed Amendment No. 2 to the above-captioned contract, signed by the Administrator, which was prepared in accordance with your letter of August 5, 1953.

If any part of this proposed amendment does not meet with the approval of the Operator, the original and all copies are to be returned to this office with the proposed changes for consideration. After the signature of the Operator has been obtained, kindly distribute the copies in the usual manner.

Sincerely yours,

W. S. Martin
857
ACTING Chairman, Operating Committee

Enclosures 6

APPROVED:

C. H. Johnson 857
Member, Bureau of Mines

D. M. Larrabee 857
Member, Geological Survey

FMMurphy/gla 8-20-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3061
A. R. Kinkel, Rm. B-242A, GSA
Ellis
Murphy

HHR
8-24-53

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 8/14/53

REFERRED TO:

1. Mrs. Birmingham, Rm. 4539
2.
3.
4. Do not Detach

FOR:

..... Action	..... Recommendation
..... Approval	..... Record
..... Comment	of .....
..... Conference	..... Referring
..... Consideration	to .....
..... Filing	..... Reply for signa-
..... Instructions	ture of .....
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Attached for docket.
Sent cy of Field ltr, operator's ltr. of 7/29 & 1 cy claim map (only 1 rec'd) to Selfridge & Division. Hazel.

Check (X) before the items needing attention.

George C. Selfridge
Initials of sender.

GPO 16—63815-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 13 1953

August 8, 1953

Air Mail

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho
Contract Idm-E453

Dear Mr. Selfridge:

This is in amplification of a telephone conversation with Mr. Mittendorf relative to the shifting of some surface drilling on the above contract from the CDH area to the so-called Airport area. Following this conversation, Mr. Mittendorf teletyped this office that in the opinion of Legal the amendment should be drafted in Washington and that upon receipt of a memo from the Field Team justifying the shift, together with map and description of the Airport area claims, such an amendment would be immediately prepared. It was also stated that we might advise the Operator accordingly.

The present contract provides drilling at four different and widely scattered sites along the Meadow Creek fault. It also provides that relocation, direction, length and total footage of the holes can be shifted by approval of the Field Team as desired. During a recent visit to the property by Kiilsgaard and myself the manner of shifting the drilling provided for in the so-called CDH area was discussed briefly. The Bradley Mining Company has given further thought to this change in work following a rather thorough inspection of the property by the present consulting geologist, Mr. Roger McConnel. It is now formally requested that the drilling planned at the CDH area be shifted to the Airport area.

There is nothing fundamentally wrong with the CDH area. Trenching done by the company has shown some mineralization and there is also the suggestion of intersecting structures similar to those which have localized ore elsewhere along the Meadow Creek fault zone. These showings, plus Dr. Carlton D. Hulin's hypothesis of a zonal theory on the control of the ore deposits, was the reason for the inclusion of the CDH area in the DMEA contract. In the Airport area there

is considerably stronger evidence of intersecting structures as there is a strong fault zone that should merge with the Meadow Creek fault in this vicinity. Exploration at this zone of merger has been suggested previously by Don White in USGS Bulletin 922I and also by others. Furthermore, the area is more accessible than the CDH area and so much nearer the other company operations. It could be more readily explored and, if the exploration was successful, more readily developed and more conveniently operated. The present company management and technical directors do not regard Hulin's zonal theory on ore control as established and, therefore, they strongly favor transfering the drilling to the Airport area. I would have no objections to this as I regard the Airport area as equally as good as that of the CDH area and more favorable from an operating standpoint. This proposed shift does not change in any fundamental way the purpose of the exploration which was to drill at a number of localities along the Meadow Creek fault.

The attached letter from the company dated July 29, 1953 with map show the names, book and page numbers of additional claims which should be added to the contract to protect the Government's investment if work is shifted into the Airport area. I believe this will give ample protection. There is only one complication that I can foresee and that is that some of the claims are already included in our contract E173 on the DMEA tunnel exploration. This could cause no new difficulties because inspection of contracts E173 and E453 shows that some of the claims are already common to both contracts. Since this condition already exists the inclusion of the two or three more claims of the subject contract would not seem to make much difference. As a matter of fact, sufficient information is not yet available to make a definite statement but it does appear likely that a discovery could logically be certified on both contracts. The DMEA tunnel has entered into sulfide mineralization, some of which would be ore if it were in the Yellow Pine open pit. Further drilling now planned by the company under the contract is expected to further outline and define the limits and grade of this body.

Diamond drilling under contract E453 in the open pit area and in the Fiddle Creek area has cut mineralized ground, although the mineralized areas are not too extensive. Complete assay data were not available at the time we inspected the core but it would appear, from visual inspection, that portions of the core are close to ore grade. If continued drilling is successful in extending the limits of these drilled ore bodies, there will be a possibility that both contracts will be certified as discoveries. As a matter of fact, if a discovery is certified on contract E453, royalty payments could be obtained from production from the present Yellow Pine open pit as that area is covered by the contract and ore has been found in DMEA drill cores close to the present walls of the pit.

Drilling is, at present, being done with two rigs and is progressing very rapidly. This was the reason why it was necessary to take up this matter by telephone and why there is some urgency in getting this amendment drawn. We trust it can be prepared and returned to us at an early date.

Sincerely yours,
A. E. Weissenborn, T. K. K.
A. E. Weissenborn, Executive Officer
DMEA Field Team, Region II

Enclosures 2
cc: USBM (2)

P. S. There is only 1 copy of the claim map available but trust this is sufficient for your immediate needs. AEW

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
August 7, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: V. Z. Johnson, Mining Engineer, U. S. Bureau of Mines

Subject: Inspection Bradley Mining Co. (Drilling) Valley County, Idaho. Contract Idm-E453, Docket No. DMEA 2636 (antimony)

The inspection was made on July 25, 1953, with Mr. K. G. Wallace, engineer in charge.

This contract originally scheduled 10,565 feet of diamond drilling distributed in six areas. About 1,040 feet of drilling had been completed in three holes in the area southeast of the pit on the date of the inspection and 331 feet of drilling had been completed from the southeast crosscut in the North Tunnel area. The holes are drilled as follows:

Area South East of Pit:

No. B 217, 370 ft.-22°, S 11° E, from North 29900, East 20630, Elev. 6070.
No. B 218, 500 ft. - 10°, S 25° E, from North 29590, East 20400, Elev. 6072.
No. B 219, 170 ft. (and continued) 10°, S 87° E, from 29590, East 20400, Elev. 6072.

North Tunnel Area:

No. FC I, 331 ft. (and continued) - 2°, S 45°-50° E, from North 25950, East 20010, Elev. 6523.

Total of 1,371 ft. are the contract units completed as of the date of this inspection.

Hole No. B 217 was drilled in the altered granite associated with the large fault for about 230 feet and the balance was in fresh granite. An assay of 0.025 oz. Au and 0.27% Sb, was returned on a sample taken at about 50 feet from the collar.

Hole No. B 218 encountered 5 feet of altered granite which assayed 3.85% Sb at about 80 feet and a 15-foot segment of the same zone assayed 1.73% Sb with Au from traces to 0.02 ounces. A dacite dike was encountered at about 150 feet and the remainder of the hole was in fresh granite.

Hole No. B 219 was still in altered granite on the day of the inspection, and the operator intends to stop this hole when fresh granite is encountered.

Hole No. FC 1 encountered a wide zone of altered granite beyond 300 feet in which there was considerable sulphides but no apparent stibnite and the sections of core did not lamp as scheelite.

Mr. Wallace mentioned a proposed arrangement of holes being considered by the operators' consulting geologist and Mr. Weissenborn of the U. S. G. S., which would divert some of the proposed drilling into another area.

Two drill rigs are operated by the sub-contractor who has two shifts of two men on each rig. The core recovery is generally above 75 percent except in broken zones and in the dikes. Sludge is also recovered in zones where these cuttings may be of value. The workmanship is satisfactory.

V Z Johnson

V. Z. Johnson

COPY

Defense Minerals Exploration Administration
C. O. Mittendorf
5371 4624

14X3923, Working Fund, Interior, DMEA
August 4, 1953

Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II,
South 157 Howard Street, Spokane 4, Washington

Our phone conversation today.

Assignment of Amador contract, docket DMEA 1175, approved and should come before Operating Committee tomorrow.

Amended Northfield contract on unit basis should also come before Committee tomorrow.

Regarding Taylor-Knapp case, our intention to case same as amended contract approving new work and incorporating money already spent in package deal.

Have reviewed Roger Pierce contract 574. We will draft amendment here changing item one, rehabilitation, on cost basis with maximum of $15,000 to the unit basis recommended by you listing subitems a, b, and c totaling $12,445. Amendment being prepared. Operator may sign contract and proceed with work at his own risk, however, with understanding that amendment will be submitted in accordance with above. Did you point out to Pierce the firm commitment aspect of short form contract?

Have discussed Bradley contract 453 with Legal. Since shift of drilling from C.D.H. area to airport area will entail addition of new claims not included in map exhibit of contract, our opinion amendment must be drafted here. Upon receipt your memo. justifying shift with map and description airport area claims we will immediately draft amendment. You may advise operator accordingly.

SIGNED

C. O. MITTENDORF, ADMINISTRATOR

COMittendorf/fw

cc: CONFIRMATION COPY
Admr Reading File
Mails & Files
Base Metals Div.
Rare Metals Div.
Iron and Ferro-Alloys Div.

HEAD OFFICE:
425 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER

STIBNITE, IDAHO

May 5, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 18 1953

Mr. A. E. Weissenborn, Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. 2636
Contract IS-[illegible]-53

Dear Mr. Weissenborn:

We have received Mr. Kirkemo's letter of April 24th from your office regarding increased unit costs under the subject contract.

We appreciate very much your efforts to increase the unit costs for diamond drilling and we will, of course, proceed with the drilling as scheduled. In a few days we expect to start the tractor work necessary for drill site preparation and begin making core boxes and generally complete as much of the preliminary work as possible before June. From all indications drilling should commence in the fore part of June.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace
Senior Engineer

KGW/ja

cc: DMEA
1201 No. Division St.
Spokane 2, Washington

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

Department of the Interior
Defense Minerals Administration
RECEIVED
APR 24 1953

April 24, 1953

Mr. K. G. Wallace, Senior Engineer
Bradley Mining Company
Bradley Field
P.O. Box 638
Boise, Idaho

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Company
Yellow Pine Mine
Lemhi County, Idaho
Contract Idm-E453

Dear Mr. Wallace:

Your letter of April 6 giving the bids that you received for the diamond drilling for Contract Idm-E453 has been received.

When you first brought this matter to our attention, we forwarded your letter to our Washington office for an opinion. I regret to inform you that we have been advised by the Legal Division that the unit costs on the contract cannot be revised upward, and that they do not see any way by which this can be done. I expect to discuss this further when I am in Washington next week, but I do not see any hope that a higher price can be extended to you for the drilling.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: John D. Bradley
Bradley Mining Co.
425 Crocker Bldg.
San Francisco, Cal.

USBM (2)
DMEA (2)
Puffett

700
FILE COPY
SURNAME:

Schmidt
Ellis
McKane
Rubin
Weissenborn

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Mr. A. E. Weissenborn
Executive Officer
DMA Field Team, Region II
South 157 Howard Street
Spokane 8, Washington

APR 14 1953

Re: Docket No. DMA-2636 (Antimony)
Contract No. Dm-1453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

D. C. 4/14/53

This acknowledges receipt of your letter of March 11, concerning a request for increased unit costs in the subject contract.

A copy of an opinion by the Legal Division in this case, dated March 30, is enclosed, from which it appears that since the contract was signed by the Operator he should have ascertained what his costs were before signing the contract. It will be noted that the Legal Division does not reveal any way in which these increased costs can be allowed in the case of agreed unit costs.

It might be emphasized that there is a certain hazard in these agreed unit cost contracts which works both ways. It is not expected that an operator will reimburse the DMA for any reduction in actual costs as compared with the agreed unit costs.

It is suggested that the Bradley Company is in position to make a drilling contract which will take advantage of any possible reduced costs in the industry such as have occurred, for instance, in New Mexico.

With the amount of drilling contemplated in this contract and in Contract Dm-173, it also seems possible that the agreed unit costs might be obtained if the company does the drilling itself, thereby eliminating, at least in part, the contractor's profit.

It is, therefore, advisable for operators signing contracts containing agreed unit costs to remember that these costs when once agreed upon cannot be increased by a simple

amendment nor by the subterfuge of rescinding the contract and substituting a new one with higher costs.

It would, therefore, seem that it is the obligation of the Operator to complete his contract and assume the contracted costs.

Sincerely yours,

Chairman, Operating Committee (JAB)

Enclosure

APPROVED:

Member, Bureau of Mines (JAB)

Member, Geological Survey (JAB)

FSSchmidt/gla 4-6-53
cc to: Adm.Reading File
Operating Committee
Docket
Messrs. A.Renick, Rm. 3061
A.R.Winkel, Jr.Rm.4234 GSA
Mr. Ellis
Mr. Schmidt
DMEA FT,Region II

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

March 30, 1953

Memorandum

To: The Administrator

From: Chief Counsel

Subject: Bradley Mining Company, Docket No. DMEA-2636, Contract No. Idm-E453 - Antimony

Reference is made to the letter from Mr. Weissenborn to Mr. Selfridge dated March 11, enclosing a letter from K. G. Wallace of the Bradley Mining Company to Mr. Weissenborn dated March 7. This letter was turned over to us by Mr. Schmidt of the Rare & Miscellaneous Metals Division for our attention.

In Mr. Wallace's letter, the request is made to increase the cost of the project because the operator cannot find a contractor willing to do the drilling at the unit cost price specified in the contract.

This contract is dated November 25, 1952, and work was to have been started within 60 days therefrom. There is no evidence that work has been commenced and according to Mr. Schmidt, no work has been done at all.

I can find no legal reason for complying with the operator's request. There is no evidence of any mutual mistake of fact regarding the cost of the project and Mr. Wallace's letter negatives any such claim. Furthermore, as no new work is to be undertaken, there would be no new consideration to the Government for increasing the project cost.

J. L. Hofflund
J. L. Hofflund
Chief Counsel

Attachment

P. S. As an alternative to increasing the total estimated cost of the project, operator suggests cutting down drilling footage, or shifting funds scheduled as actual costs to increase unit costs, but the same objections still apply.

3/25/53 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 11, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 19 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636
Bradley Mining Company
Yellow Pine Mine
Valley Co., Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

I am enclosing a self-explanatory letter received from Mr. K. G. Wallace, engineer for the Bradley Mining Company, with reference to an increase in drilling costs.

Mr. Wallace has been advised that such revision is beyond the authority of the Field Team and that the matter will be referred to you as the Chairman of the Operating Committee. He has been requested to submit letters from drilling contractors stating the new price, but I have made no promises that the unit costs for this drilling can be increased. This information will be forwarded to you as soon as it is received.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
cc: C. O. Mittendorf
USBM(2)
Nickelson

RECEIVED
MAR 26 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

March 12, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAIL
MAR 19 1953

Mr. J. G. Wallace, Senior Engineer
Bradley Mining Company
Stibnite, Idaho

Dear Mr. Wallace:

I have your letter of March 7 requesting an increase in the unit cost for drilling on the new Stibnite project, and suggesting several ways by which this might be accomplished. I can appreciate that there may well have been changes in drilling costs since the proposal was submitted last summer. Nevertheless, revisions of this sort are beyond the authority of the Field Team to make. If you will submit to me copies of bids received from the various drilling contractors whom you have undoubtedly contacted showing the new rates that you propose, I would be very glad to forward this information to our Washington office. Normally, it is difficult to increase an agreed on unit cost in a contract, but the fact that work has not actually been started may make such a change possible. Any such change or amendment, however, would have to be made by our Washington office and not by the Field Team.

Sincerely yours,

A. H. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: John D. Bradley, San Francisco
DMEA (2)
USBM (2)
Nickelson

HEAD OFFICE:
425 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

REFER TO	ACTION	NOTED	DATE
al			
USBM	rec'd & cc		
ANSWERED			

March 7, 1953

Mr. A. E. Weissenborn, Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. 2636
Contract Idm-453

Dear Mr. Weissenborn:

In attempting to let a contract (or more correctly, a subcontract) for the diamond drilling in the Stibnite area, we have run into a cost problem.

We made application to the D.M.E.A. for the project in July, 1952, based on diamond drilling costs quoted to us in the spring of 1952. Now, one year later, we cannot find a contractor willing to do the drilling at the rates specified in the contract. Increased bit and labor costs are given as the reason for higher overall drilling prices.

The net effect of the higher drilling costs will be to increase the direct drilling costs from the contract figure of $42,557.00 to approximately $48,145.00, an increase of $5,588.00.

We will appreciate your advice on possible ways to change the contract to allow for the increased costs. It occurs to us that there are three alternatives that may be possible:

1 - Amend the contract to increase the allowable unit costs and the total estimated cost of the project in the amount of $5,588.00.

2 - Shift funds available under contract items 1 through 8 over to the unit costs specified for diamond drilling in the hope that we will be able to hold costs below the amounts allowable for such items as technical services, consultants, contingencies, etc.

3 - Cut down the drilling footage by some 750 feet and increase the allowable unit costs, but retain the present total cost of the project.

Below are itemized the various unit costs as they appear in the contract and the new actual unit costs that result from higher drilling costs:

	Footage	Contract Unit Cost	Total	New Unit Cost	Total
C.D.H. Group	3,000	$4.73 +1.24	$14,190.00	$5.97	$17,910.00
SE of Pit	1,500	5.02 +0.51	7,530.00	5.53	8,295.00
Hen. Creek	500	5.10 +0.53	2,550.00	5.63	2,815.00
North Tunnel	1,500	4.10 +0.43	6,150.00	4.53	6,795.00
Driving Pipe	215	9.00 +0.90	1,935.00	9.90	2,128.00
Ream & Case	3,850	2.65 0	10,202.00	2.65	10,202.00
			$42,557.00		$48,145.00
					42,557.00
					5,588.00

We have had a normal Stibnite winter (which means quite a bit of snow) and we hope to start the project as soon as the snow is off the ground. It should be possible to begin drilling in June and complete the program in four or five months.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Senior Engineer

KGW/ja

cc: Mr. M. E. Volin

Overcharge
3,720
765
265
193.5
5,588.5
42,557.-
48,145.5

RECEIVED
MAR 11 1953
U. S. G. S.
SPOKANE, WASH.

FILE COPY
SURNAME:

240

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

March 30, 1953

Memorandum

To: The Administrator

From: Chief Counsel

Subject: Bradley Mining Company, Docket No. DMEA-2636, Contract No. Idm-E453 - Antimony

Reference is made to the letter from Mr. Weissenborn to Mr. Selfridge dated March 11, enclosing a letter from K. G. Wallace of the Bradley Mining Company to Mr. Weissenborn dated March 7. This letter was turned over to us by Mr. Schmidt of the Rare & Miscellaneous Metals Division for our attention.

In Mr. Wallace's letter, the request is made to increase the cost of the project because the operator cannot find a contractor willing to do the drilling at the unit cost price specified in the contract.

This contract is dated November 25, 1952, and work was to have been started within 60 days therefrom. There is no evidence that work has been commenced and according to Mr. Schmidt, no work has been done at all.

I can find no legal reason for complying with the operator's request. There is no evidence of any mutual mistake of fact regarding the cost of the project and Mr. Wallace's letter negatives any such claim. Furthermore, as no new work is to be undertaken, there would be no new consideration to the Government for increasing the project cost.

J. L. Hofflund
Chief Counsel

Attachment

AEKane/mef
cc to: Mails and Files
Mr. Ellis
Mr. Hofflund
Mr. Kane
Chron.

P.S. As an alternative to increasing the total estimated cost of the project, operator suggests cutting down drilling footage, or shifting funds scheduled as actual costs to increase unit costs, but the same objections still apply.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

[illegible] Edward Street
Spokane 1, Washington

January [illegible], 1953

Mr. [illegible] Wallace, Senior Engineer
Bradley Mining Company
Bradley Field, P. O. Box [illegible]
Kellogg, Idaho

Re: Docket [illegible]-2[illegible]
Yellow Pine Mine
Contract [illegible]-153

Dear Mr. Wallace:

This will acknowledge your two letters of January 16, one concerning Contract [illegible]-172 to which the Bureau of Mines will reply, and the other, Contract [illegible]-153.

In regard to your question whether the drilling on the contractor or not, the way the contract reads is somewhat confusing. It is our interpretation, and we are quite confident that we are correct, that inasmuch as the contract indicates that the drilling is to be done on a cost basis, our only interest is in seeing that the work proceeds with reasonable speed and that the desired geologic information is obtained. The drilling may be done either by yourself or by subcontract, and we do not believe that we shall have to approve the subcontract.

Very truly yours

[illegible]
Executive Officer, [illegible]
Field Team, [illegible]

cc: [illegible]
[illegible] Bradley
Kellogg, Idaho

[illegible]
San Francisco [illegible], Calif.
[illegible]
[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1953

S. 157 Howard Street
Spokane 4, Washington

January 15, 1953

Mr. John D. Bradley
Executive Vice-President
Bradley Mining Company
425 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 - Antimony
Valley County, Idaho (Yellow Pine)
Contract No. Idm-2453

Dear Jack:

When you signed this new contract in our office some time ago, the Guaranty was inadvertently overlooked. Would you please sign the copies enclosed and return them all to me? You will wish to complete your copy also.

If the number of days under Article 3 is not designated on your copy of the contract, would you please indicate "120 days"? Thank you very much.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team Region II

cc: DMEA (2)
USBM (2)

EMR/

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

[redacted]
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

December 19, 1952

Mr. Frank E. Johnson, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket DMEA-2636 (Antimony)
Bradley Mining Company
Valley County, Idaho
Contract Idm-E453

Dear Mr. Johnson:

Attached are the original and two signed copies of Amendment No. 1 to the subject contract, with attached justification.

Copies of this amendment have been retained by the Operator and the Field Team, and by a carbon copy of this letter we are sending the Finance Officer's copy to him.

Sincerely,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: Finance Officer w/encl.
USBM (2)

RECEIVED
DEC 30 1952
DEF ADMINISTRATION

cae
12.23

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

December 19, 1952

Mr. Frank E. Johnson, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket DMEA-2636 (Antimony)
Bradley Mining Company
Valley County, Idaho
Contract Idm-E453

Dear Mr. Johnson:

Enclosed are the original and two copies of Exploration Project Contract Idm-E453 which has been duly executed by the Bradley Mining Company.

Copies of this contract have been retained by the Operator and the Field Team, and by a carbon copy of this letter we are distributing the Finance Officer's copy.

Sincerely,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: Finance Officer w/encl.
USBM (2)

Col
12.23

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

[redacted]
Sc. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

December 2, 1952

Air Mail

Mr. John D. Bradley
Executive Vice-President
Bradley Mining Company
425 Crocker Building
San Francisco, California

Re: Docket DMEA-2636 (Antimony)
Bradley Mining Company
Yellow Pine Mine Area
Stibnite, Idaho

Dear Mr. Bradley:

Enclosed are the original and five copies of the subject contract which have been signed by the Government. If this contract meets with your approval, please have an authorized official of your company sign all copies, retain that copy marked "Operator's Copy" for your files and return the remaining copies to this office.

Sincerely yours,

Thor H. Killegaard
Acting Executive Officer
DMEA Field Team, Region II

Enclosure

cc: DMEA (2)
USBM (2)
Hobbs

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
[redacted]
So. 157 Howard Street
Spokane 4, Washington

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Sincerely yours,

Thor H. Kiilsgaard
Acting Executive Officer
DMEA Field Team, Region II

Enclosure

cc: DMEA (2) Cp. Comm.
USBM (2)
Hobbs

FILE COPY
SURNAME:
70

Schmidt
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

NOV 2 5 1952

Mr. F. . Reissenborn
Executive Officer, Region II
DMA Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket [illegible]-2636 (Contract)
Bradley Mining Company
Yellow Pine Tine Area
Stibnite, Idaho

Dear Mr. Reissenborn:

Enclosed are the original and five copies of the subject contract which have been signed by the Government. When the original and all copies have been signed by the Operator, the copies marked "Operator's Copy", "Field Team's Copy" and "Finance Officer's Copy" are to be given to the designated parties. The original and the other copies are to be returned to Washington.

The contract was reviewed in this office by Mr. Jason Bradley, vice president of the Bradley Mining Company, prior to final typing.

The cost estimates used are in accordance with those of the application dated July 31, 1952.

Sincerely yours,

(signed) FRANK E. JOHNSON
(JHB)

Chairman, Operating Committee

BL 11-25

Enclosed 6

Approved: J. H. Hedges (JHB)
Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)
Member, Geological Survey

FESchmidt/jem 11/20/52
cc to: Adm. Reading File
Docket
Messrs. A. Renick-3061
A.R.Kinkel-4234
Ellis Schmidt
Opr. Committee
Field Team, Region II

Bradley Mining Co DMEA 2636 11/12/52 Schmidt

Price 37¢ Selling 30¢

This contract is written on strength of favorable recommendations by the two commodity men, and the Field Team Report. The Bradley Mining Co is well known. In this file find data concerning status of the anitmony business in this country. The application is accompanied by a studious report by Hulin geologist well known to me.

The Yellow Pine Mine is the producer of over 90% of the domestically mined anitmony ore. The object of this contract is to diamond drill the structures determined by the company's engineers and geologists to be promising. In some cases antimony ore has been found on the surface. There are 4 areas to be drilled, one of which is underground, namely the North Tunnel area, the rest are from the surface. These areas are really extensions of the Yellow Pine Mine structure the Meadow Creek Fault Zone etc. It is hoped that extensions will be found of the Yellow Pine Mine. The ore deposition is localized within a vertical range limiting the depth of holes. Considerable information is available about what can be expected in these drill holes. The geological data has been obtained by bulldozing the surface and aerial reconnaisance and surface and underground geology.

The management is good The staff is competent and know their business.

It is of interest to note that if we deduct contingencies of $3,038 from the total amount of contract of 53,000 and figure the cost per foot of drilling including all costs of the contract, that the figure is slightly less that $7.70 per foot This is exceptional low since all costs are included.

The Bradley Mining Co. owns all the mining land involved in this contract But when they acquired the land they assumed an obligation to pay a royalty of 5% to previous owners of claims which is only paid on production. If they sign this contract they assume the obligation of paying the royalties called for in the contract regardless of the prior 5% committment and their financial standing and stability and integrity can be considered a sufficient guarantee .

11/12/52 gla

WORTHEN BRADLEY
PRESIDENT

JOHN D. BRADLEY
EXECUTIVE VICE PRESIDENT

JAMES P. BRADLEY
VICE PRESIDENT

E.A. GRIFFEN
SECRETARY

BRADLEY MINING CO.

425 CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

ANTIMONY
TUNGSTEN
VIRGIN QUICKSILVER

November 7, 1952

Mr. F. S. Schmidt
Rare and Miscellaneous Metals Branch
Defense Minerals Exploration Administration
Washington, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 10 1952

Reference; DMEA - 2636

Dear Sir:

With reference to your telephone conversation with Mr. James Bradley today we answer your questions as follows:

Claim A No. 2 is an unpatented claim and is recorded in the office of the County Recorder of Valley County, Cascade, Idaho, in Book 12, Page 472.

Monday No. 11 continues on to the north of Monday No. 2 and east from Monday No. 12. We do not have a copy of the claim map sent you with our letter of October 29th as the original set of copies was lost in the mail between Stibnite and this office and the map we finally sent was the last copy available at Stibnite so it is not possible to explain whether the claim was incorrectly named on the map or was inadvertently omitted. In any event Mr. James Bradley is leaving for Washington tomorrow and will have with him another claim map of the area in question and will go over the matter with you.

As to the compressor listed under operating equipment in the application and to be used for only two months we advise that it is to be used for the drilling in the North Tunnel Area. This work is the only underground work included in the application and will not take longer than two months. The rest of the surface drilling will be done with gasoline powered drills.

Yours very truly

BRADLEY MINING CO.

By G C Orton
Assistant Secretary

GCO:AB

cc: DMEA Spokane

COPY FOR Mr. F. Sommer Schmidt

BRADLEY MINING CO.
425 CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

AIR MAIL

October 14, 1952

Mr. J. G. Kinnear
Office of Defense Mobilization
Room 161, Executive Office Building
17th and Pennsylvania Avenue
Washington, D. C.

Dear Mr. Kinnear: Re: ANTIMONY STOCKPILE

At the suggestion of Mr. F. Sommer Schmidt, we are calling your attention to our nation's dangerously inadequate stockpile of antimony.

We are very much concerned over the antimony outlook because we have been in the antimony business for many years and know that it will be difficult to obtain as much as 20% of our peacetime needs or 10% of our wartime requirements from domestic mines. Our Yellow Pine Mine & Smelter, Stibnite, Idaho (normally supplier of well over 90% of domestic output) suspended operations recently due to heavy liquidations of foreign antimony inventories at depressed prices.

We have taken this matter up with the DMPA, the Munitions Board and with President Truman (through our Idaho Congressional Delegation) and are sorry to report that none of the Washington agencies seems to have any anxiety over the antimony stockpile position or the future supply problem as long as antimony is apparently in "easy" supply (antimony supplies are currently coming mainly from declining inventories).

Attached is a brief statement on the U. S. antimony position - in summary the stockpile appears dangerously low in view of the low U. S. self-sufficiency (practically nil at present) and the uncertain outlook for adequate foreign supplies. We simply cannot understand how our government can be satisfied to be so completely dependent in case of an emergency on such far off sources as Bolivia (beset by revolutionary troubles) and South Africa (where the racial crisis is worsening).

If you have any suggestions on how to alert the proper Washington authorities to the unsatisfactory antimony stockpile situation, we would greatly appreciate hearing from you and we believe that anything that can be done in this connection will certainly be in the national interest.

Yours very truly,

BRADLEY MINING CO.

By J. P. Bradley
Vice President

JPB:MR

cc: Mr. F. Sommer Schmidt

Oct. 14, 1952

CONDENSED STATEMENT ON U. S. ANTIMONY POSITION

ANNUAL U. S. PEACETIME REQUIREMENTS FOR PRIMARY ANTIMONY:

Current demand - approx. 15,000 tons.
Projected 1975 demand (per Paley Report) - - - - - - - approx. 28,000 tons.

ANNUAL U. S. WARTIME REQUIREMENTS FOR PRIMARY ANTIMONY:

Peak rate of World War II demand - - - - - - - - - - - approx. 40,000 tons.*

STATUS OF ANTIMONY STOCKPILE:

It has been announced that the stockpile objective on antimony has been completely fulfilled.

According to industry estimates, the strategic stockpile contains about 20,000 tons of antimony - only six months' emergency supply.

LOW U. S. SELF-SUFFICIENCY:

The U. S. is now almost 100% dependent on foreign sources for its supplies of primary antimony.

The major domestic producer (Yellow Pine Mine & Smelter, Stibnite, Idaho) suspended operations in the summer of 1952. This property has a productive capacity of about 4,000 tons per year (well over 90% of domestic output), equivalent to approximately 20% of peacetime demand, but only 10% of wartime requirements. Due to the isolated situation, the severe winter conditions and the difficulties in replacing the trained crew, there will be a long delay before production could be resumed.

UNCERTAIN OUTLOOK FOR ADEQUATE SUPPLIES FROM MAIN FOREIGN SOURCES:

Bolivia - The activities of the new revolutionary government have caused uncertainties over the amount of future production as well as concern over the availability of Bolivia's strategic metal supplies to the U. S.

Mexico - Due to gradual exhaustion of the better grade deposits (suitable for hand-sorting), Mexican antimony production has been declining and a steady decline in future production can be anticipated.

Union of South Africa - South Africa furnished about 25% of the Free World's supply of primary antimony in 1951, but production is practically all from only one mine (Consolidated Murchison). This increases the vulnerability to sabotage of a large share of the Free World's supply and also makes this source subject to earlier exhaustion than if there were a large number of producing mines. The company reported ore reserves at about two years' life at the end of 1951.

The growing racial troubles could result in a slowdown or interruption of production.

APPARENT CONFUSION OVER U. S. SUPPLY-DEMAND STATISTICS:

The DMPA recently reported a surplus supply of about 4,000 tons of primary antimony during the first six months of 1952, but the U. S. Bureau of Mines inventory statistics indicate a deficit of 321 tons during this period.

CURRENT WORLD SUPPLY-DEMAND SITUATION:

Due to sharp curtailment of production during 1952 in Bolivia, Mexico, South Africa and the U. S., Free World mine production of antimony is well below current Free World demand, with supplies coming mainly from declining inventories both here and abroad.

*"Materials Survey Antimony - Compiled for the Materials Office, National [illegible]by Resources Board by the U. S. Bureau of Mines with the Cooperation of [illegible]alogical Survey", March, 1951 (S, pg. 5).

COPY

DR J.P.B.

BRADLEY MINING CO.
425 CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

November 7, 1952

Mr. F. S. Schmidt
Rare and Miscellaneous Metals Branch
Defense Minerals Exploration Administration
Washington, D. C.

Reference: DMEA - 2636

Dear Sir:

With reference to your telephone conversation with Mr. James Bradley today we answer your questions as follows:

Claim A No. 2 is an unpatented claim and is recorded in the office of the County Recorder of Valley County, Cascade, Idaho, in Book 12, Page 472.

Monday No. 11 continues on to the north of Monday No. 2 and east from Monday No. 12. We do not have a copy of the claim map sent you with our letter of October 29th as the original set of copies was lost in the mail between Stibnite and this office and the map we finally sent was the last copy available at Stibnite so it is not possible to explain whether the claim was incorrectly named on the map or was inadvertently omitted. In any event Mr. James Bradley is leaving for Washington tomorrow and will have with him another claim map of the area in question and will go over the matter with you.

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Yours very truly

BRADLEY MINING CO.

By
Assistant Secretary

GCO:AB

cc: DMEA Spokane
Bcc: JDB - JPB - EEC - KGW

DMEA 2636 Bradley Mining Co antimony

Points to be clarified

Joned to Jim Bradley 11/7/52

Mining Claims

✓ (1) Claim A No.2 is on map but not listed. There is no recording data or patent No.

✓ (3) Claim Monday No.11 is listed and recording data given but not labelled on the map. Probably between Monday No.9 and Monday No. 12

✓ (2) ~~Operating equipment compressor 315 cu ft for only 2 months.~~

~~Why only for 2 months. Is this for site preparation. If so it should be mentioned~~ in the description of the work.

1 We make contract with Bradley Co. not independent contractor

11/10 Visit from Mr. James Bradley who provided the data as to Claim A No.2 and Monday No. 11 Also explained that the compressor is to be used for two month diamond drilling by air underground North Tunnel Area Lower Tunnel level to last only 2 months.

11/5/52 gla

WORTHEN BRADLEY
PRESIDENT

JOHN D. BRADLEY
EXECUTIVE VICE PRESIDENT

JAMES P. BRADLEY
VICE PRESIDENT

E.A.GRIFFEN
SECRETARY

BRADLEY MINING CO.

425 CROCKER BUILDING
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TELEPHONE SUTTER 1-0414

ANTIMONY
TUNGSTEN
VIRGIN QUICKSILVER

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

October 29, 1952

Mr. F. S. Schmidt
Rare and Miscellaneous Metals Branch
Defense Minerals Exploration Administration
Washington, D. C.

Reference: DMEA - 2636

Dear Sir:

Mr. Thor H. Kiilsgaard of Mr. Weissenborn's Region II office at Spokane requested additional information under date of September 9th in connection with our recent application for a diamond drilling program at the Yellow Pine Mine. We now have the necessary data and shall attempt to give the answers in the order asked.

No. 1 Additional claims to be added to the list in the application:

Patented:

Southeast of Pit Area

Homestake No. 5
Hennessey No. 2

North Tunnel Area

Monday No. 6

Unpatented:

(Book and page numbers are shown at which each is recorded in the office of the County Recorder of Valley County, Cascade, Idaho).

CDH Area	Book	Page
CDH No. 1	12	460
CDH No. 2	12	461
CDH No. 3	12	463
CDH No. 4	12	464
CDH No. 7	12	468
CDH No. 8	12	469
CDH No. 9	12	470

	Book	Page
Southeast of Pit Area		
MW No. 1	12	504
MW No. 2	4	503
Hennessey Creek Area		
A No. 5	12	479
A No. 6	6	204
A No. 7	12	481
North Tunnel Area		
Monday No. 1	6	210
Monday No. 5	6	292
Monday No. 8	6	293
Not on map → Monday No. 11	6	218
Monday No. 12	6	219
Monday No. 13	6	294
Monday No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208

No. 2 Patent numbers of all patented claims now referred to:

Hennessey No. 2	Patent No. 1111588
Hennessey No. 3	" " "
Hennessey No. 4	" " "
Hennessey No. 5	" " "
Hennessey No. 6	" " "
Homestake No. 5	" " "
Monday No. 2	Patent No. 1120542
Monday No. 3	" " "
Monday No. 6	" " "

No. 3 Location of claims: Attached is a revised map showing all claims listed in the application and the claims added above. The proposed diamond drill holes are shown thereon.

No. 4 Core size of proposed diamond drill holes: In past drilling we have never been particularly concerned with core size provided that core recoveries were adequate to supply the geologic information required. Following this practice our request for quotation from the contractor (Nichols & Thompson) did not specify core size nor did the contractor's quotation. Actually the choice of core size is determined by drilling conditions with the larger sizes being used as far as possible. When badly caving ground is encountered the hole is cased or

cemented and a smaller size bit is then used. By this practice we expect lower quotations than if core sizes are specified as the contractor has the advantage of being able to drill the holes in the most efficient manner.

Usually surface holes are collared in with size Nx (2-1/8) inch diameter core) and drilled with Nx for perhaps 100 feet. Then Bx (1-5/8 inch diameter core) is used as far as possible, followed by Ax (1-1/8 inch diameter core) and finally Ex (7/8 inch diameter core). Underground holes are collared in with Bx and that followed by Ax and Ex.

On the average it may be said that the holes consist of the following sizes, but this does not apply to any particular hole nor even for any particular group of holes:

Surface		Underground	
Nx	15%	Bx	20%
Bx	35%	Ax	50%
Ax	35%	Ex	30%
Ex	15%		

No. 5 Legends on maps submitted:

Red -- Mineralized and altered zone
Blue -- Fault zone
Green -- Rhyolite dike
Brown -- Lamprophyre dike
Country rock is granodiorite. Proposed diamond drill holes are shown in red.

No. 6 Work to be done tied in with section, township and range data: For this purpose we are enclosing a U.S. Geological Survey map on which the four proposed locations have been shown.

No. 7 Guaranty agreement: If a contract is approved we shall execute and present a guaranty agreement in lieu of a Landlord's Subordination Agreement, similar to that agreement in Yellow Pine Contract Idm-E173.

No. 8 Cost estimates for driving pipe and reaming and casing: The following cost breakdowns are our own estimates (not the contractor's) of how the costs may be apportioned.

Driving Pipe

Estimated footages:

CDH Area	80 ft.
Southeast of Pit Area	60
Hennessey Creek Area	75
North Tunnel Area	0
	215 ft.

Footage per shift: 10 ft.
Total shifts = 215' ÷ 10' = 21.5 shifts devoted to pipe driving
Cost per shift: $90.00
Cost breakdown:

Labor	$45.00
Materials	15.00
Other	30.00
	$90.00

Total cost: 21.5 shifts X $90.00 = $1,935.00 ÷ 215' = $9.00/ft

Reaming and Casing

Estimated footages:

CDH Area	2,000 ft.
Southeast of Pit Area	800
Hennessey Creek Area	300
North Tunnel Area	750
	3,850 ft.

Footage per shift: 50 ft.
Total shifts = 3,850' ÷ 50' = 77 shifts
Cost per shift: $132.50
Cost breakdown:

Labor	$45.00	
Materials	50.00	50' of casing
Other	37.50	
	$132.50	

Total Cost: 77 X $132.50 = $10,202.50 ÷ 3,850' = $2.65/ft

The cost item identified as "Other" in the above cost breakdowns covers such contractor's expenses as equipment depreciation and insurance, overhead, profit, etc.

We believe the above covers all questions raised and if any additional information is required we shall be glad to supply it.

As requested we are sending a copy of this letter and the enclosures to Mr. Weissenborn's Spokane office.

Yours very truly

BRADLEY MINING CO.

By G C Worton
Assistant Secretary

GCO:AB
cc: DMEA Spokane

9/5/52

Telephone to Weissenborn to Kiilsgaard

I wish to add the following claims to the area involved in the contract

Hennesy No2
Homestake No 5
Monday No 6
S.J.

I want a map of claims CDH 5 and 6 showing location of drill holes

The book and page of all locations

The survey number of all patented claims

What is the size of the drill hole and core etc

Map does not show the legend of colors red b.ye green brown for tungsten and antimony etc

Map showing the relationship of the section line grid to the claims including the CDH claims

9/17 Conference Jack Bradley
See contract - Reaming + casing + drilling pipe
U.S. Mine Co.
To send me breakdown on casing drill pipe

On receipt of above can complete contract

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 8/25/52

REFERRED TO:

DMEA-2636

1. ~~Mr. Mittendorf, Rm. 4624~~
2. Mr. Ellis, Rm. 4640
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
X Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	X Your information

REMARKS: I dont know whether you wish to acknowledge this info. or not. We have the explor. part well in hand. My phone call from Mr. Fritz re this prompted par. 4 of Mr. Steelman's letter Aug. 21(?) to Rep. Wood.

Check (X) before the items needing attention.

I dont believe an acknowledgement is necessary.

Ernest Wm. Ellis

Initials of sender.

GPO 16—63815-1

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF DEFENSE MOBILIZATION
WASHINGTON 25, D. C.

OFFICE OF THE DIRECTOR

AUG 21 1952

DMEA - 2636

Honorable C. O. Mittendorf
Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington, D. C.

Dear Mr. Mittendorf:

I am enclosing a copy of a telegram of August 11 from the Senators and Congressmen in Idaho, together with a copy of my reply. I understand that you already have an application from the Bradley Mining Company for an exploration loan.

Sincerely yours,

Enclosures

EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF DEFENSE MOBILIZATION

WASHINGTON 25, D. C.

OFFICE OF THE DIRECTOR

Honorable C. O. Mittendorf
Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington, D. C.

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Enclosures

EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF DEFENSE MOBILIZATION

WASHINGTON 25, D. C.

OFFICE OF THE DIRECTOR

Honorable John T. Wood
House of Representatives
Washington, D. C.

Dear Mr. Wood:

The President has asked me to reply to your telegram of August 11 regarding the problem of antimony and tungsten in Idaho.

I can well appreciate your concern in view of what has happened recently in the market, particularly for antimony. I am informed that the price of antimony, which has recently been more than three times the level prevailing in World War II and is currently more than twice this level, has stimulated expansion of production throughout the world and, no doubt, discouraged consumption. As a result, suppliers are now having difficulty in making sales and stocks have built up to an exceptionally large volume.

With respect to reserves of antimony for time of war, it should be noted that the stockpile, which takes into account anticipated interruption of overseas shipping, is in very satisfactory condition. However, in order to make sure that the company receives every consideration that is justified by national defense, I am sending a copy of your telegram to the Munitions Board with a request that they re-examine the stockpile position for adequacy of supply. Under the review procedure, the Munitions Board will consult with the Defense Production Administration, Defense Materials Procurement Agency and all other agencies concerned.

As you know, the Government offers assistance for exploration on antimony and tungsten, wherever warranted. I understand that the Bradley Mining Company has filed an application with the Defense Minerals Exploration Administration for such assistance. I am sure that the agency, if necessary, will send a representative to Idaho to make an investigation in passing on that application.

The domestic antimony smelter industry is protected by a tariff on antimony metal. There is no tariff, however, on antimony ores and concentrates. Your telegram raises a perplexing question on this point. Various domestic smelters are receiving foreign ores and concentrates which are the lifeblood of their operation. Your proposal

would close them down by shutting off their economical raw material supply. It should be noted that the Paley Commission report, to which you refer, advises that raw material needs be satisfied generally at the lowest cost (Vol. I, p. 79).

In view of the long range problems facing the industry, I urge that everything possible be done through private research to improve production methods and develop additional uses for this metal.

Sincerely yours,

Same letter to:

Honorable Henry Dworshak
United States Senate

Honorable Herman Welker
United States Senate

Honorable Homer Budge
House of Representatives

C O P Y C O P Y C O P Y

T E L E G R A M

Boise, Idaho
August 11

The President
The White House

AS REPRESENTATIVES OF THE SOVEREIGN STATE OF IDAHO AND ONE OF THE NATIONS GREAT MINERAL PRODUCERS WE URGE YOU TO SERIOUSLY EXAMINE THE STRATEGIC MINERAL STOCKPILING SITUATION WHICH HAS FORCED THE ABANDONMENT OF THE GREATEST PRODUCERS OF ANTIMONY AND TUNGSTEN IN AMERICA WITH OUR NATION ALMOST COMPLETELY DEPENDENT UPON FOREIGN SOURCES FOR NEW SUPPLIES OF ANTIMONY IT IS TRAGIC THAT THE BRADLEY MINING COMPANY'S ANTIMONY OPERATION AT STIBNITE IDAHO THE PRODUCERS OF NINETY PERCENT OF THE DOMESTIC ANTIMONY IN AMERICA BE CLOSED AND ABANDONED DUE TO THE TRAGIC HANDLING OF THE STRATEGIC MINERALS STOCKPILING SITUATION THIS COMPANY HAS OVER ONE-HALF OF THE UNITED STATES RESERVE OF ANTIMONY AND HAS CLOSED ALL MINING OPERATIONS AS OF LAST JUNE SMELTING WILL CLOSE THIS AUGUST TWENTIETH

THEIR SMELTER IS THE MOST COMPLETE AND ADEQUATE IN THE WORLD TODAY FOR PROCESSING ANTIMONY ORES, AND IT IS A SHAME THAT THE SITUATION HAS DEVELOPED WHICH LEAVES THEM NO OTHER RECOURSE THAN TO ABANDON THIS CAMP, CEASE MINING AND PROCESSING ANTIMONY, AND CEASE THEIR EXPLORATION, PRODUCTION AND PROCESSING OF TUNGSTEN FOR WHICH THEY RECEIVED NATION-WIDE ACCLAIM IN WORLD WAR TWO.

?

WE ARE SURE IT IS APPARENT TO YOU, MR PRESIDENT IN THE EVENT THE OCEAN LANES OF SUPPLY ARE CUT TO THE UNITED STATES OUR ANTIMONY RESERVES ARE NOT SUFFICIENT TO LAST FOR A PERIOD OF EVEN SIX MONTHS.

MAY WE DIRECT YOUR ATTENTION TO THE PLAEY REPORT WHICH WARNED THE

NATION OF THE SITUATION THAT NOW CONFRONTS ALL OF US, THE STATE OF IDAHO, AND YES, THE ENTIRE NATION ABIDING BY THE RECOMMENDATIONS OF THE PALEY REPORT AND THE DEFENSE PRODUCTION ACT WE URGE THAT THE MUNITIONS BOARD ENLARGE ITS STOCKPILING OBJECTIVE TO A MORE REALISTIC TOTAL, AND THAT FURTHER, IN VIEW OF OUR GREAT LACK OF DOMESTIC SELF-SUFFICIENCY IN THE CASE OF ANTIMONY, THAT THE YELLOW PINE SMELTER AT STIBNITE, IDAHO, BE DECLARED AN ANTIMONY ORE DEPOT AND THAT FOREIGN ANTIMONY ORES BE SHIPPED TO THIS POINT FOR STOCKPILING AND PROCESSING--THE FINISHED METAL TO GO TO THE UNITED STATES STOCKPILE AND THE EXCESS ORE ABOVE THE SMELTER'S CAPACITY BE STOCKPILED AT STIBNITE IN CASE OF DISRUPTION OF OCEAN SHIPPING LINES.

DURING THE PERIOD THE SMELTER IS ACTING ON A CUSTOM BASIS FOR THE UNITED STATES GOVERNMENT WE HAVE DETERMINED THAT THE BRADLEY PEOPLE WILL KEEP UP EXPLORATION AND DEVELOPMENT AND NOT DEPLETE THEIR ORE RESERVES SO THAT THE GREAT ANTIMONY ORE RESERVES WILL REMAIN INTACT FOR A PERIOD OF REAL EMERGENCY. ANOTHER ADVANTAGE TO THIS PLAN IS THAT THE IMPORTANT PRODUCTION FACILITIES AT STIBNITE AND THE TECHNICAL PERSONNEL BE KEPT AND IN OPERATING CONDITION.

WE WISH TO EMPHASIZE THAT CONTINUED EXPLORATION AT STIBNITE IS VERY LIKELY TO BRING FORTH ANOTHER MAJOR TUNGSTEN DISCOVERY AS WAS SO HELPFUL DURING OUR WAR EFFORT IN WROLD WAR TWO. THE ONLY ALTERNATIVE TO THIS ENTIRE PROGRAM, WE UNDERSTAND, IS THAT THE CAMP WILL HAVE TO BE ABANDONED AND FACILITIES LIQUIDATED AS THE BRADLEYS CANNOT AFFORD TO COMPLETE WITH FOREIGN ORES WHEN THERE IS NO TARIFF.

WE REGRET WE ARE NOT IN WASHINGTON TO TAKE THIS MATTER UP WITH YOU PERSONALLY, BUT WE SUGGEST YOU CALL THE MEMBERS OF THE MUNITIONS BOARD, THE DEFENSE PRODUCTION ADMINISTRATOR, AND DEFENSE MATERIALS PROCUREMENT AGENCY, AND DEMAND THAT THEY SEND AN INVESTIGATING TEAM TO STIBNITE IDAHO,

WHO WILL READILY SEE THE DAMAGE THAT WILL BE DONE TO OUR DEFENSE PROGRAM IN THE EVENT WE DO NOT ACT HURRIEDLY AND COURAGEOUSLY IN THIS MATTER. THERE ARE THOUSANDS OF PEOPLE IN IDAHO DEMANDING OF US AN ANSWER TO WHY THIS SHUTDOWN OF SUCH AN IMPORTANT DEFENSE STRUCTURE HAS BEEN PERMITTED. MANY HUNDREDS OF FAMILIES WILL BE SEEKING NEW EMPLOYMENT. AS WE SAY, ONE OF THE GREATEST MINING CAMPS IN THE ENTIRE NATION IS BEING CLOSED WHILE ALL THE TIME OUR NATION IS THE ONE TO SUFFER.

WE WILL BE GLAD TO CARRY OUT ANY SUGGESTIONS YOU MAY HAVE FEEL FREE TO CONTACT US AND WE WILL COOPERATE WITH YOU IN EVERY WAY POSSIBLE WITH WARMEST PERSONAL REGARDS

HENRY DWORSHAK UNITED STATES SENATOR -- IDAHO

HERMAN WELKER UNITED STATES SENATOR -- IDAHO

HAMER BUDGE UNITED STATES CONGRESSMAN IDAHO -- FIRST DISTRICT

JOHN T WOOD MEMBER OF CONGRESS IDAHO -- SECOND DISTRICT.

9/17/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

September 16, 1952

Re: DMEA - 2636
Yellow Pine Property
Bradley Mining Co.
San Francisco, Calif.
$49,962.50

Memorandum

To: E. W. Ellis

From: Abbott Renick

Subject: Application for DMEA assistance submitted by Mr. J. D. Bradley - San Francisco, California.

The writer concurs with the field team recommendation dated August 25, 1952, reporting "In summary, the project is highly recommended as legitimate exploration in a most favorable area and by a highly competent operator."

Abbott Renick

Abbott Renick

9/18/52 glm

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 18, 1952

Memorandum

Re: DMEA-2636
Bradley Mining Company
Yellow Pine Mine area,
Stibnite, Idaho
Antimony, tungsten (gold)
$49,962.50

To: Mr. E. Wm. Ellis

From: E. T. McKnight

Subject: Recommendation for approval of project.

The Yellow Pine mine area has been the largest recent domestic producer of antimony, and was also the leading producer of tungsten in the short interval (1941-45) that the recently discovered tungsten ore body was being mined out. Production from the remaining low grade antimony ore bodies has been discontinued in the last few weeks owing to the low current prices for antimony. The proposed exploration is an attempt to find higher grade ore bodies that will be economic under current prices.

A recent publication on the district by the Geological Survey (U.S. Geological Survey Bulletin 969F, Geology of the tungsten, antimony, and gold deposits near Stibnite, Idaho, 1951) shows that the ore that has been mined to date is localized along the Meadow Creek fault, and particularly in the angle where branches split off of the main fault. The deposits are hydrothermal replacements of quartz monzonite in the fractured zones. The applicant presents a geologic report by a capable geologist, outlining four areas where close study, aided in part by bulldozer trenching, or opening of old tunnels, has indicated fractures branching off from the main Meadow Creek fault. Some of these areas show hydrothermal alteration of the type that accompanies the known ore. The applicant proposes to diamond drill in these four areas of favorable structure. The geologic argument is well presented in the applicant's geologic report.

The field team has examined the proposal in the field and recommends approval of the project. I concur with the field team recommendation that this project should be approved.

Edwin T. McKnight

Edwin T. McKnight
Geologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 18, 1952

Re: DMA-2636
Bradley Mining Company
Yellow Pine Mine area,
Stibnite, Idaho
Antimony, tungsten (gold)
$49,962.50

Memorandum

To: Mr. E. Wm. Ellis

From: E. T. McKnight

Subject: Recommendation for approval of project.

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The field team has examined the proposal in the field and recommends approval of the project. I concur with the field team recommendation that this project should be approved.

Edwin T. McKnight
Geologist

9/4/52 gla

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SEP 2 1952

So. 157 Howard Street
Spokane 4, Washington

August 25, 1952

DMEA-2636

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II

Subject: Geological Justification of Application for Bradley Mining Company for a program of diamond drilling in the Yellow Pine area, Stibnite, Idaho.

The program that is submitted in the subject application is documented with maps and a rather detailed report prepared by C. H. Hulin, consulting geologist for the Bradley Mining Company. The proposal was discussed in the field with Mr. J. D. Bradley, Mr. Hulin, and myself, and a day was spent going over the various drilling sites. In my opinion the proposal, which is based almost entirely on geologic reasoning , is legitimate exploration.

The Geological Survey has done extensive work in the area in which exploration is suggested, and a report by John R. Cooper has recently been published. The geological interpretation and the evaluation as advanced by Hulin are substantially the same as reported by Cooper with one major and a number of minor exceptions. The major exception is that Hulin believes the Meadow Creek fault splits into two or more strands near Fiddle Creek, and that one strand continues due north through the Yellow Pine pit area rather than bending towards the northeast. Hulin also shows another strand still further to the west. The geological basis for the drilling is an extension of the idea of ore controls that have been worked out in the main Yellow Pine pit and in the Meadow Creek mine. These controls are twofold; (1) the intersection of structures, specifically the Meadow Creek fault with intersecting or branching faults; and (2) a mineralized zoning that restricts the potential ore horizon to a rather narrow vertical range. The structural control has been conclusively demonstrated in the area

Reviewed by
DMEA OPERATING COMMITTEE

9-10-52
(date)

of the Yellow Pine pit and probably also in the Meadow Creek mine. The zoning control is not so easily established.

In the CDH area Hulin has mapped the Meadow Creek fault a short distance to the east of where it was mapped by Cooper, and he has determined that the straight courses of the gullies and other topographic features indicate a structural intersection. They have done rather extensive bulldozing in this area that has, without much question, located a fractured and altered zone which very probably is the Meadow Creek fault. Hulin has also shown that there are other structures which intersect the Meadow Creek fault at this point. Bulldozing has shown a great deal of hydrothermal alteration and a good deal of silicification with, in places, small but interesting amounts of antimony. In the North tunnel or Fiddle Creek area there is evidence of several structures which intersect or come into the Meadow Creek fault zone. One of these structures, cut in the Monday tunnel, is reported to have contained substantial amounts of antimony. One of the recommendations in the North tunnel area is almost identical with a recommendation made by Cooper, in the USGS Bulletin.

The proposed drilling southwest of the pit would appear to me to have the most certain chances of success, although it might not necessarily discover the biggest and best ore body. This area, although adjacent to the present open pit, has not been explored because of the deep overburden. Hulin proposes drilling flat holes near the bottom of the pit which can be done only with some difficulty because of the bad conditions of the pit-wall, but which can undoubtedly be successfully accomplished.

Drilling in the Hennessey Creek area is premised on the alignment of Hennessey Creek with Hulin's "L" fault zone and a flattening of the steep slope which Hulin believes marks the position of the westernmost strand of the Meadow Creek fault zone. Because of deep overburden in this area the evidence for this structural intersection cannot be conclusive and will require drilling to test it. A structural intersection of this nature in this particular area would warrant prospecting.

The program as outlined has much to recommend it. The exploration has a high element of risk as it is based on geologic inference in large part, but the target is rich and it would appear that the risk is worth taking. The area contains the largest producing antimony mine in the United States, and before the tungsten reserves were depleted was an outstanding tungsten producer. Facilities are available for processing any ore that is found by the exploration and inasmuch as ore reserves are limited to 4 or 5 years of normal operation it is worth taking a large risk in the attempt to find other ore bodies similar to the Yellow Pine and Meadow Creek mines. The project is exploration in its purest form. The results, if successful, will be

highly significant in the national picture. The Bradley Mining Company can be relied upon to carry out the project competently and energetically.

In summary, the project is highly recommended as legitimate exploration in a most favorable area and by a highly competent operator.

Sincerely yours,

A. E. Weissenborn, J.H.K.

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM(2)
Hobbs

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

No. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 15 1952

September 9, 1952

File in docket
DMEA-2636

Bradley Mining Company
425 Crocker Building
San Francisco 4, California

Attention: Mr. [illegible], Assistant Secretary

Gentlemen:

This will acknowledge receipt of your letter of August 21, 1952, concerning the delivery of unused [illegible] under the subject mine contract. We do not believe it is necessary to amend the contract to allow the unused [illegible] to be made available for "[illegible] for equipment [illegible] by operator." [illegible] that, you continue to [illegible] for the acquisition of equipment, furnished by the operator, as you have in the past [illegible] the contract is completed or the unused funds are exhausted.

DMA-1284
IDM-E173
A copy of this letter has been placed in DMA-1284
Pending
DMEA-2636

We have recently been advised by [illegible] Washington, D. C., that they are concerned with some [illegible] submitted by the Bradley Mining Company for additional drilling in the [illegible] area, but that they have a number of [illegible] questions that need further clarification before a contract may be prepared. Your attention is directed to the following items.

It is [illegible] that the following [illegible] be added to the drill hole information as they may be [illegible] by the proposed drilling program:

Manostaka No. 5
Bradley No. 6
[illegible] J.
[illegible] No. 2

[illegible] information on where [illegible] manner.

It is requested that the Bradley Mining Company advise the [illegible] information as well as any [illegible] on [illegible] in the above [illegible] items.

The maps submitted with the application do not show where claims L.D.H. No's. 5 and 6 are located. It is requested that such a claim map be submitted, which in addition should show the location of the proposed diamond drill holes.

The question was also raised concerning the size of the proposed drill holes. Information on this matter would be appreciated.

Our attention has been called to the fact that although various symbolic colors have been used on the maps submitted with the application no legend was included to explain the colors. Legends explaining these colors and symbols would be appreciated.

It is suggested that maps and other work to be done should be tied in with section, township, and range data. These data are not clear on those maps previously submitted.

It is assumed that if a contract is approved, the Bradley Mining Company will transmit to DMA a guaranty payment in lieu of a bondholder's information bond, similar to that required in Yellow Pine Contract DMA-1173.—DMA-1284

It is suggested that any answer by Bradley Mining Company officials to the above-mentioned application first be made directly to DMA, Washington, D. C., to the attention of Mr. A. E. Schmidt, Lease and Miscellaneous Metals Branch. A copy of the reply would be appreciated at this office.

Sincerely,

Thor W. Villagaard
for: A. E. Wisenborn
Executive Officer, DMA
Field Term, Region II

cc: Bradley Mining Company,
Boise, Idaho

DMA (2)
USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 29 1952

August 22, 1952

Air Mail

Mr. F. E. Johnson, Chairman
Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket DMEA-2636, Bradley Mining Company application, Valley County, Idaho, Yellow Pine Mine, Tungsten-Antimony-Gold

Dear Mr. Johnson:

This is in reply to Mr. Schmidt's telephone conversation this morning in which he requested additional information on the application submitted by the Bradley Mining Company for additional work at Yellow Pine. Mr. Schmidt raised two questions in which he required an answer. The first question concerned the basis of the 5 percent royalty to the United Mercury Mines Company, which in the application was stated as "a condition of ownership". The Bradley Mining Company has informed me that they took title to the property in 1939 and that the company owns the property outright. The United Mercury Mines Company however has a perpetual 5 percent royalty on production from the property. It would seem that inasmuch as the United Mercury Mines Company is not the owner of the ground, no Owner's Consent to Lien would be required. The legal division, however, will have to check on this. I think there might be some difficulty in obtaining an Owner's Consent to Lien; the Bradley Mining Company would gladly sign a guarantee to insure the repayment of the contract funds from subsequent production, if this is considered necessary.

In regard to the drilling rates, Mr. Bradley informed me that they have no formal contract with the driller and these are merely quotations. They can be considered as firm rates, however, but may of course change if the contract is delayed so that the work is not done until next year.

Mr. Schmidt was also concerned with the Independent Contractors Item no. 6(a) of the proposal; he was particularly concerned with that portion allowing for reaming and casing.

Mr. Schmidt is also concerned about the way in which the drilling is broken down; for instance, there is shown 3,000 feet of drilling at $4.73, 2,000 feet of reaming and casing at $2.65, and 80 feet of pipe driving at $9.00 per foot. The amount of casing and reaming shown on the proposed contract should be regarded merely as an estimate made for the purpose of arriving at an over-all figure, for obviously no one can forecast the amount of casing and reaming that may be required. The only firm figures are the total amount of drilling and the total estimated cost of the drilling. It is the intention of the Bradley Mining Company to pay for reaming and casing and standpiping only when these are actually done. It is hoped that the amount of reaming and casing will actually be a little less than that estimated but this can only be a guess, of course. I trust that this will clear up this matter.

A discussion of the geologic aspects of the proposal is in preparation and will be forwarded to you as soon as possible.

Sincerely,

A. E. Weissenborn, T.K.K.

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

No. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 29 1952

August 22, 1952

Air Mail

Mr. F. E. Johnson, Chairman
Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket No. [illegible]-2636, Bradley Mining Company application, Valley County, Idaho, Yellow Pine Mine, Tungsten-Antimony-Gold

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A discussion of the geologic aspects of the proposal is in preparation and will be forwarded to you as soon as possible.

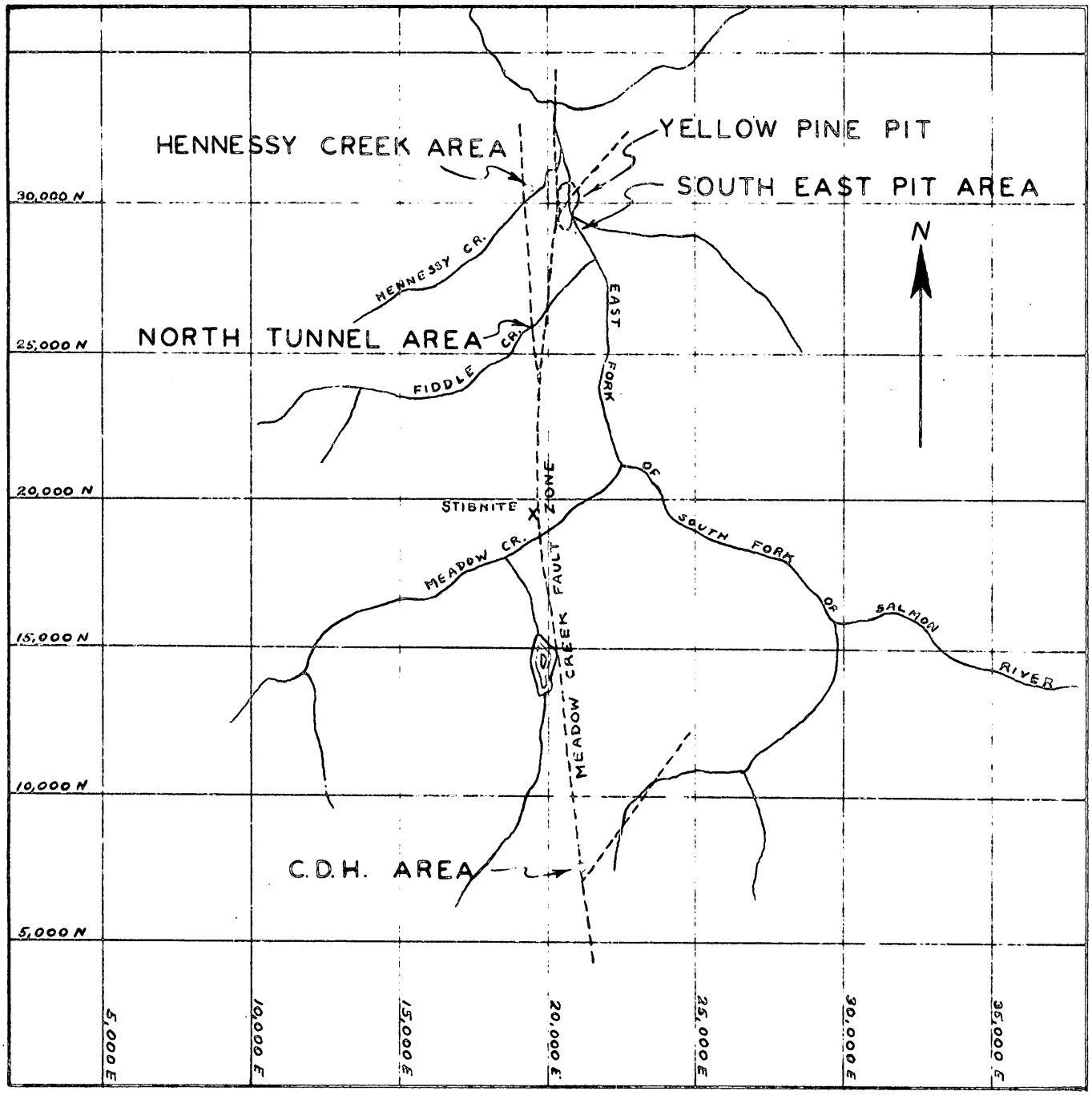
Sincerely,

A. H. Meisenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM (2)

INDEX MAP

STIBNITE DRILLING PROGRAM



BRADLEY MINING CO.
425 CROCKER BLDG.
SAN FRANCISCO 4, CALIF.

8/5/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

August 4, 1952

DMEA 2636
Bradley Mining Co.
425 Crocker Bldg.
San Francisco, Calif.

Memorandum

To: E. William Ellis

From: Abbott Renick, Base Metals Branch

Subject: Application for DMEA assistance submitted by Mr. J. D. Bradley, San Francisco, California

Applicant submits an exploration project for antimony. Estimated cost of an exploration program involving diamond drilling of four areas in the immediate vicinity of Stibnite, Idaho, totals $49,962.50.

The Bradley Company state that time is the essence insofar as only several months of drilling time will be available during the fall of this year. Curtailment of drilling will be necessary during the winter and early spring, the work being resumed during the late spring of 1953.

The writer considers that application 2636 is a meritorious exploration project. Favorable action for a DMEA contract seems to be fully justified. Possibly, it may be advisable to refer the project to the field for comments.

Abbott Renick

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
LIBRARY
AUG 5 1952

8/21/52 rgla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

August 21, 1952

Re: DMEA-2636
Yellow Pine Property
Cascade County, Idaho
$49,962.50

Memorandum

To: E. W. Ellis

From: E. L. Newcomb

Subject: Review of application

The field team states that copies of the application have been retained to facilitate preparation of a report on the applicant's proposal.

I am returning the attached application for your files. Further consideration of the application will be made after we receive the field team's report.

E. L. Newcomb
E. L. Newcomb

Enclosure

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

August 21, 1952

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Cascade County, Idaho
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E. L. Newcomb

Enclosure

ELNewcomb:gt

Copies to: Dir's reading file
Geol. Div. files
Branch files
Branch readingfiles
A.Renick- 3061 Interior
E.T.McKnight

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

No. 157 Howard Street
Spokane 4, Washington

July 25, 1952

Mr. Frank A. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

Enclosed are three copies of application by the Bradley Mining Company for other contracts both at Stibnite and at the Ima mine at Patterson, Idaho.

Both of these are considered desirable pieces of exploration, and one copy of each application is being retained here for a detailed analysis by the Bureau of Mines and Geological Survey members. An appropriate recommendation will then be prepared.

Very truly yours

A. L. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: U.S.B.M.

COPY

FOR

CARLTON D. HULIN
MINING GEOLOGY
2011 FLOOR, SHELL BUILDING
SAN FRANCISCO 4, CALIFORNIA

July 11, 1952

Mr. John D. Bradley
Executive Vice President
Bradley Mining Co.
425 Crocker Building
San Francisco 4, California

Diamond Drilling Program
Stibnite, Idaho

Dear Jack:

I wish to recommend for your consideration, and for consideration by the Defense Minerals Exploration Administration, an exploration program involving diamond drilling of four areas in the immediate vicinity of Stibnite, Idaho. The program will involve the drilling of 6500 feet of drill hole together with preparatory work necessary for occupying the drilling locations recommended.

The four areas herein recommended for drilling represent structural targets which have been isolated and identified as a result of studies of geology, structure and mineralization of the Stibnite area extending over a period of years. The areas to be drilled are essentially virgin and in each case the conditions represented are regarded as favorable for the possible occurrence of antimony, gold or tungsten, or for any combination of these metals.

Geological Considerations

During the past years the Stibnite region has been highly productive of antimony, gold and tungsten, the production having come in large part from the Yellow Pine Mine and the Meadow Creek Mine.

Ore occurrences in the Stibnite region are localized in areas of intense fracturing and brecciation which are related to structural intersections.

The dominant structure is the Meadow Creek fault zone which strikes approximately North and South and which rolls in the direction of dip with the result that the dip may be to the East, to the West or vertical. Most ore occurrences are in the vicinity of intersections between the Meadow Creek zone and zones of faulting striking to the Northeastward.

Considerable evidence exists that to the South of the Yellow Pine open pit, in the vicinity of Middle Creek, the Meadow Creek fault splits into two main strands, one striking slightly East of North, the other slightly West of North. The evidence is in part physiographic and in part is based upon the relations between the surface outcrop and underground work in the Monday tunnel and in the North tunnel. The existence of the West strand of the Meadow Creek zone, while not positively demonstrated, offers the possibility for structural intersections which are completely virgin and untested.

The mineralization in the Stibnite area is epithermal (shallow type) in character, and the antimony, gold and tungsten ores were deposited within a rather closely limited vertical range. Thus, in addition to control of the location of the ore occurrences by structure, the vertical position of the ore occurrences is controlled by the primary epithermal zoning.

The areas for which drilling is herein proposed have been considered both as regards the presence of potential mineral structures and as to position with respect to the zonal deposition of the metals. The four areas will be discussed separately.

The C.D.H. Group

The C.D.H. Group lies approximately 2.2 miles south of Stibnite smelter at elevations of 8000 to 8100 feet. The possibilities of this area were first recognized from air photographs on which a major structural intersection was clearly apparent. Subsequently on the ground a large area of hydrothermal alteration was outlined with local areas of intense silicification. Trenching has proven the area to be on the south extension of the Meadow Creek zone and has yielded knowledge of some of the structural details of the area.

The surface of the C.D.H. Group at elevations of around 8000 feet is zonally too high for metal values to occur. Based upon studies of zoning in the Stibnite area it was anticipated that metal values would not occur in the C.D.H. area above an elevation of 7700 feet, more or less.

During 1951 a wildcat drill hole was put down to a depth of 628 feet. This drilling was done in advance of mapping, trenching or detailed knowledge of the structures of the area. In consequence this drill hole failed to penetrate any of the potential ore structures and remained in only slightly altered granite throughout. Nevertheless, with practically no metal value being shown in the first 360 feet of hole, strong showings of antimony were encountered in the hole starting at elevation 7735, and at 7660 elevation

assayable amounts of WO_3 were found with almost continuous low gold values being present from this elevation to the bottom of the hole. This drill hole, therefor, appears to substantiate the zonal distribution of metals which had been worked out for this area.

The drilling proposed for the C.D.E. Group will cut known potential ore structures at elevations below 7700 feet. These structures, in an area of structural intersection and shattering, show intensive mineralization and strong silicification in the outcrop. Due to lack of knowledge of dip of the structures present (indeterminate in the outcrop) four drill holes will be required to test the most intensively mineralized portion of this area.

The North Tunnel Area

The North Tunnel is on the South slope of Fiddle Creek approximately 3500 feet south of the Yellow Pine pit. Driven in 1927-28, the North Tunnel was generally assumed to be on the Meadow Creek zone. Reopened for examination in the autumn of 1951, the North Tunnel was found to be on a Northeast shear zone, the same zone cut in the Monday Tunnel just north of Fiddle Creek, with the Meadow Creek zone necessarily lying to the West of the North Tunnel.

The mineralized shear zone cut in the Monday Tunnel averaged 1.1 per cent antimony through a length of 240 feet and 40 feet of this distance averaged 2.35 per cent antimony. It is not known whether scheelite was present in this zone.

A second Northeast shear zone carrying antimony-gold-tungsten is known to lie to the east of the North Tunnel, with a third Northeast zone probably intersecting the Meadow Creek zone under Fiddle Creek.

The area of the North Tunnel is thus definitely known to be an area of intersection between the Meadow Creek zone and branching Northeast structures. The Meadow Creek zone in this potentially attractive area is completely unexplored.

Area Southeast of Yellow Pine Pit

Mineralization in the Yellow Pine antimony pit has generally been assumed to have been limited on the east by the Homestake fault, with the result that no effort has been made to explore beyond the fault to the southeast. The Homestake fault in this area is represented by a zone of fault gouge from 40 to 80 feet in thickness.

A few drill holes put down to prove ore in the south end of the antimony pit have incidentally in their extreme upper or extreme lower portions penetrated beyond the Homestake fault, and in each such case ore values have been encountered to the southeast of the fault zone. Well to the south a few drill holes put out to the eastward from the Monday Tunnel have likewise shown the presence of values in antimony, gold and tungsten.

We thus have a fairly large area lying to the east and southeast of the south end of the antimony pit which is completely unexplored except for a few fringing drill holes on the west and southwest. This area is known to be bounded on the east by a shear zone which, where exposed to the northward, carries a small amount of disseminated scheelite.

Exploration of this untested area lying to the southeast of the antimony pit by means of four drill holes as herein proposed would appear to offer favorable chances for the discovery of ore bodies carrying antimony, gold or tungsten, or any combination of these metals.

Hennessy Creek Area

The Yellow Pine antimony pit ore body as now recognized is bounded on the west by a strand of the Meadow Creek fault and on the north by the important "L" Fault zone.

Recent work in the northwest portion of the antimony pit has shown the "L" Fault zone continuing to the southwestward and strongly mineralized well beyond the Meadow Creek zone. On recent sampling 10 feet of the "L" Fault zone lying well to the west of the Meadow Creek zone assayed 1.55 per cent antimony with some gold.

Recognition of a probable western strand of the Meadow Creek zone lying some 500 feet or more to the west of the antimony pit leads immediately to the knowledge that a zone of intersection and probable brecciation and mineralization must exist between the "L" Fault structure and the structure represented by the western strand of the Meadow Creek zone. And the presence of strong mineralization in the "L" Fault structure well beyond the limits of the pit ore body greatly strengthens the possibility that the area of this intersection may be economically mineralized.

The intersection between the "L" Fault structure and the west strand of the Meadow Creek zone lies in an area which is completely unexplored and unmapped. Testing of this area by one or two diamond drill holes toteling 500 feet is strongly recommended.

Drilling Program

A total of 6500 feet of diamond drill hole, distributed approximately as follows, but subject to possible minor modification dependent upon results which may be obtained in the early stages of the drilling program.

C.D.H. Group

Four drill holes of 750 feet each or a total of 3000 feet of drill hole. Two holes are planned at this time, as follows, the exact location and attitude of the third and fourth holes to be based upon the results of the first two holes.

1 - Collar location at coordinate 7,240 N, 20,640 E, at approximately 8,075 feet elevation. Hole to bear N 80°E at an inclination of 58°. Length 750 feet. Hole to be surveyed at depths of 200, 400 and 600 feet.

2 - Collar location at coordinate 7500 N, 20,640 E, at approximately 7990 feet elevation. Hole to bear S 80°E at an inclination of 56°. Length 750 feet. Hole to be surveyed at depths of 200, 400 and 600 feet.

North Tunnel Area

Three drill holes totaling 1500 feet, of which two holes are planned as follows. Exact planning of the third hole, which will be aimed at the intersection of the west strand of the Meadow Creek fault and the Fiddle Creek fault, to be based upon the results of the first two drill holes.

1 - Drill hole to be collared at the east face of the east crosscut of the North Tunnel approximately at coordinate 25,945 N, 20,005 E, the hole to be flat and to bear S 70° E. Possible length 550 feet. The objective is the zone of mineralization known to branch from the Meadow Creek fault zone on Meadow Creek Ridge, and which is known to carry gold, antimony and tungsten (scheelite).

2 - Drill hole to be collared at the west face of the west crosscut of the North Tunnel, approximately at coordinate 25,945 N, 19,680 E, the hole to be flat and to bear S 40° W, which bearing is necessary to prevent the drill hole from penetrating alluvium. Length 500 feet or until the west limit of the Meadow Creek zone is reached, which should be less than this distance.

Southeast of Pit

Four surface holes, approximately as follows:

1 - From bench at south end of pit. Collar at coordinate 29,530 N, 20,380 E at elevation of about 6055 feet. Hole bearing S 30° E at minus 10° inclination. Length 500 feet.

2 - From bench at south end of pit. Collar at coordinate 29,530 N, 20,380 E at about 6055 feet elevation. Hole bearing S 60° E at minus 10° inclination. Planned length 400 feet but favorable results in this hole may make it desirable to extend this hole to 500 feet.

3 - From bench at south end of pit. Collar at coordinate 29,620 N, 20,395 E at elevation of about 6055 feet. The hole to bear S 75° E at minus 10° inclination. Planned length 350 feet but favorable results in this hole may make it desirable to extend this hole to 500 feet.

4 - From bench 8 at coordinate 29,870 N, 20,625 E, and at about 6075 feet elevation. Drill hole bearing S 10° W at minus 20° inclination. Length 350 feet.

Hennessy Creek

1 - At location near Hennessy Creek to be determined on the ground, in unsurveyed area in vicinity of coordinate 30,200 N, 19,500 E. This location will be near the intersection of the "L" Fault structure and the west strand of the Meadow Creek fault. The drill hole or holes to bear southward at an inclination to be determined after the collar location is prepared. Length 500 feet to be distributed between one or two holes.

Time is of the essence insofar as only several months of drilling time will be available during the fall of this year. Curtailment of drilling will be necessary during the winter and early Spring, the work being resumed during the late Spring of 1953.

Very truly yours

Carlton D. Hulin

Carlton D. Hulin

CDH/jm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

No. 157 Howard Street
Spokane 4, Washington

July 25, 1952

Mr. Frank A. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

Enclosed are three copies of application by the Bradley Mining Company for other contracts both at Bentonite and at the Iron mine at Patterson, Idaho.

Both of these are considered desirable pieces of exploration, and one copy of each application is being retained here for a detailed analysis by the Bureau of Mines and Geological Survey members. An appropriate recommendation will then be prepared.

Very truly yours

F. A. Heinsenborn
Executive Officer, D. M. A.
Field Team, Region II

Enclosures

cc: U.S.B.M.

August 1, 1952

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Numbers

There are listed below the assigned Docket Numbers to applications recently submitted from Region II.

DMEA-2635 - Bradley Mining Co.

DMEA-2636 - Bradley Mining Co.

DMEA-2637 - Golconda Lead Mines

ROBERT E. ADAMS

Robert E. Adams
Chief, Operation's Control
and Statistics Division

COPY

FOR

CARLTON D. MULIN
MINING GEOLOGY
ROOM 1100, SHELL BUILDING
SAN FRANCISCO 4, CALIFORNIA

July 11, 1952

Mr. John D. Bradley
Executive Vice President
Bradley Mining Co.
425 Crocker Building
San Francisco 4, California

Diamond Drilling Program
Stibnite, Idaho

Dear Jack:

I wish to recommend for your consideration, and for consideration by the Defense Minerals Exploration Administration, an exploration program involving diamond drilling of four areas in the immediate vicinity of Stibnite, Idaho. The program will involve the drilling of 6500 feet of drill hole together with preparatory work necessary for occupying the drilling locations recommended.

The four areas herein recommended for drilling represent structural targets which have been isolated and identified as a result of studies of geology, structure and mineralization of the Stibnite area extending over a period of years. The areas to be drilled are essentially virgin and in each case the conditions represented are regarded as favorable for the possible occurrence of antimony, gold or tungsten, or for any combination of these metals.

Geological Considerations

During the past years the Stibnite region has been highly productive of antimony, gold and tungsten, the production having come in large part from the Yellow Pine Mine and the Meadow Creek Mine.

Ore occurrences in the Stibnite region are localized in areas of intense fracturing and brecciation which are related to structural intersections.

The dominant structure is the Meadow Creek fault zone which strikes approximately North and South and which rolls in the direction of dip with the result that the dip may be to the East, to the West or vertical. Most ore occurrences are in the vicinity of intersections between the Meadow Creek zone and zones of faulting striking to the Northeastward.

Considerable evidence exists that to the South of the Yellow Pine open pit, in the vicinity of Fiddle Creek, the Meadow Creek fault splits into two main strands, one striking slightly East of North, the other slightly West of North. The evidence is in part physiographic and in part is based upon the relations between the surface outcrop and underground work in the Monday tunnel and in the North tunnel. The existence of the West strand of the Meadow Creek zone, while not positively demonstrated, offers the possibility for structural intersections which are completely virgin and untested.

The mineralization in the Stibnite area is epithermal (shallow type) in character, and the antimony, gold and tungsten ores were deposited within a rather closely limited vertical range. Thus, in addition to control of the location of the ore occurrences by structure, the vertical position of the ore occurrences is controlled by the primary epithermal zoning.

The areas for which drilling is herein proposed have been considered both as regards the presence of potential mineral structures and as to position with respect to the zonal deposition of the metals. The four areas will be discussed separately.

The C.D.H. Group

The C.D.H. Group lies approximately 2.2 miles south of Stibnite smelter at elevations of 8000 to 8100 feet. The possibilities of this area were first recognized from air photographs on which a major structural intersection was clearly apparent. Subsequently on the ground a large area of hydrothermal alteration was outlined with local areas of intense silicification. Trenching has proven the area to be on the south extension of the Meadow Creek zone and has yielded knowledge of some of the structural details of the area.

The surface of the C.D.H. Group at elevations of around 8000 feet is zonally too high for metal values to occur. Based upon studies of zoning in the Stibnite area it was anticipated that metal values would not occur in the C.D.H. area above an elevation of 7700 feet, more or less.

During 1951 a wildcat drill hole was put down to a depth of 628 feet. This drilling was done in advance of mapping, trenching or detailed knowledge of the structures of the area. In consequence this drill hole failed to penetrate any of the potential ore structures and remained in only slightly altered granite throughout. Nevertheless, with practically no metal value being shown in the first 360 feet of hole, strong showings of antimony were encountered in the hole starting at elevation 7735, and at 7660 elevation

assayable amounts of WO_3 were found with almost continuous low gold values being present from this elevation to the bottom of the hole. This drill hole, therefor, appears to substantiate the zonal distribution of metals which had been worked out for this area.

The drilling proposed for the C.D.H. Group will cut known potential ore structures at elevations below 7700 feet. These structures, in an area of structural intersection and shattering, show intensive mineralization and strong silicification in the outcrop. Due to lack of knowledge of dip of the structures present (indeterminate in the outcrop) four drill holes will be required to test the most intensively mineralized portion of this area.

The North Tunnel Area

The North Tunnel is on the South slope of Fiddle Creek approximately 3500 feet south of the Yellow Pine pit. Driven in 1927-28, the North Tunnel was generally assumed to be on the Meadow Creek zone. Reopened for examination in the autumn of 1951, the North Tunnel was found to be on a Northeast shear zone, the same zone cut in the Monday Tunnel just north of Fiddle Creek, with the Meadow Creek zone necessarily lying to the West of the North Tunnel.

The mineralized shear zone cut in the Monday Tunnel averaged 1.1 per cent antimony through a length of 240 feet and 40 feet of this distance averaged 2.35 per cent antimony. It is not known whether scheelite was present in this zone.

A second Northeast shear zone carrying antimony-gold-tungsten is known to lie to the east of the North Tunnel, with a third Northeast zone probably intersecting the Meadow Creek zone under Fiddle Creek.

The area of the North Tunnel is thus definitely known to be an area of intersection between the Meadow Creek zone and branching Northeast structures. The Meadow Creek zone in this potentially attractive area is completely unexplored.

Area Southeast of Yellow Pine Pit

Mineralization in the Yellow Pine antimony pit has generally been assumed to have been limited on the east by the Homestake fault, with the result that no effort has been made to explore beyond the fault to the southeast. The Homestake fault in this area is represented by a zone of fault gouge from 40 to 80 feet in thickness.

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Very truly yours

Carlton D. Hulin

Carlton D. Hulin

CDH/ja

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2636
Metal or Mineral
Date Received 7-31-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

(YELLOW PINE)

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: BRADLEY MINING CO.
425 Crocker Bldg.
San Francisco 4, Calif.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

See attached for answers to all questions

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) [redacted]e the mineral or minerals for which you wis[redacted] explore .....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated July, 1952

BRADLEY MINING CO.
(Applicant)

By John D Bradley

Executive Vice President

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 1(a) Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

(b) Not applicable

(c) Officers:

Worthen Bradley	President	425 Crocker Bldg., S.F.
John D. Bradley	Exec. Vice Pres.	do
James P. Bradley	Vice Pres.	do
E. A. Griffen	Secty. & Treas.	do
G. C. Orton	Asst. Secty.	do

(d) Not applicable

No. 3(a) Patented claims as follows: Hennessey No. 3, Hennessey No. 5, Hennessey No. 6, Monday No. 2, Monday No. 3, Hennessey No. 4. Unpatented claims as follows: A No. 4, Monday No. 9, Monday No. 10, Monday No. 7, Monday No. 4, CDH No. 5, CDH No. 6.

(b) Yellow Pine Mine

(c) Owner

(d) Not applicable

(e) Only condition in connection with ownership of Yellow Pine Mine is the payment to the United Mercury Mines Co. of a 5% royalty on the net smelter returns from ore produced at the property.

(f) Book and Page Numbers for unpatented claims involved in the office of the County Recorder of Valley County, Cascade, Idaho.

Claim	Book	Page
A No. 4	6	202
Monday No. 9	6	216
Monday No. 10	6	217
Monday No. 7	6	215
Monday No. 4	6	213
CDH No. 5	12	465
CDH No. 6	12	467

No. 4(a) Mining and milling operations have been conducted at this property from 1932 to 1952 inclusive. Current mining is from open pit. Crushing done adjacent to pit and ore trucked to concentrator (55,000 tons per month capacity). Antimony concentrates and some gold concentrates treated in adjoining Yellow Pine Smelter. Finished products are antimony oxide, antimony metal and gold-silver residue. Appliant operates all facilities. All are accessible for examination purposes.

(b) Past & current production (shipments):

	1951	1932/1951
Gold - Ounces	20,672	289,703
Silver - Ounces	145,464	1,648,125
Antimony - Lbs.	6,912,495	79,425,804
Tungsten - S.T.U.	9,048	847,630

B[illegible]ley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 4(c) See letter of Dr. Carlton D. Hulin to Mr. John D. Bradley dated July 7, 1952 attached.

(d) Railhead is at Cascade, Idaho, a distance of approximately 80 miles. Supply center is Boise, a distance of approximately 160 miles. All necessary residence facilities are available at the property.

(e) All are readily available.

No. 5(a) Tungsten, antimony, gold.

(b) See Dr. Hulin letter 7/11/52 attached, also map.

(c) Project will be started immediately, providing that contract is approved before winter weather begins, and be completed within 12 months.

(d) As indicated above the Bradley Mining Co. has operated this property and others for many years and retains a competent staff of engineers.

No. 6(a) <u>Independent Contractors</u> $42,557.50

<u>CDH Group of Claims - 3,000' of Drilling</u>

3,000 feet drilling @ $4.73	$14,190.00	4 holes av 750
2,000 feet reaming & casing @ $2.65	5,300.00	
80 feet pipe driving @ $9.00	720.00	
	$20,210.00	

<u>Area Southeast of Pit -- 1,500' of Drilling</u>

1,500 feet of drilling @ $5.02	$ 7,530.00	4 holes av. 375
800 feet reaming & casing @ $2.65	2,120.00	
60 feet driving pipe @ $9.00	540.00	
	$10,190.00	

<u>Hennessey Creek Area -- 500' of Drilling</u>

500 feet of drilling @ $5.10	$ 2,550.00	1 or 2 holes
300 feet reaming & casing @ $2.65	795.00	
75 feet driving pipe @ $9.00	675.00	
	$ 4,020.00	

<u>North Tunnel Area -- 1,500 feet of Drilling</u>

1,500 feet of drilling @ $4.10	$ 6,150.00	3 holes av 500
750 feet reaming & casing @ $2.65	1,987.50	
	$ 8,137.50	

(b) <u>Labor, Supervision, Consultants</u> $ 1,150.00

One geological consultant 10 days @ $115.00 $ 1,150.00

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 6(c) Operating Materials and Supplies $ 1,790.00

1,500 feet 1" pipe @ $0.18	$ 270.00
500 feet 2" pipe @ 0.45	225.00
4,000 board feet lumber @ $75.00/M	300.00
500 feet 1/2" cable @ $0.19	95.00
Misc.(nails,wire,wrenches,etc.)	100.00
200 core boxes @ $4.00	800.00
	$ 1,790.00

(d) Operating equipment 360.00

One 315 cu. ft. compressor for 2 months. Replacement Value = $10,800.00. Depreciated at one sixtieth per month = $180.00. Two times $180.00 = $360.00.

(e) Rehabilitation and Repairs None

(f) New buildings, improvements, installation $ 1,280.00

Site preparation consisting of 20 days cat work @ $64.00 $ 1,280.00

(g) Miscellaneous $ 2,825.00

Analytical Work

500 Antimony Assays @ $1.50	$ 750.00
500 Gold Assays @ $0.75	375.00
100 Tungsten Assays @ $2.00	200.00
	$ 1,325.00

Engineering & Accounting

2 hours per day for one engineer and one hour per day for one accountant, the rate for each being $2.50 per hour including compensation insurance and payroll taxes. 200 working days.
200 x $7.50 $ 1,500.00

(h) None

TOTAL COST $49,962.50

No. 7(a) Yes

(b) Monthly costs will be paid by applicant and proper percentage charged monthly to D.M.E.A.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2636
Metal or Mineral
Date Received 7-31-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

(X[illegible] PEN)

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: BAILEY MINING CO.
425 Crocker Bldg.
San Francisco 4, Calif.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

See attached for answers to all questions

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—State the mineral or minerals for which you wish to explore .....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated July, 1952

[illegible] Mining Co.
(Applicant)

By John D. Bradley
Executive Vice President

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 1(a) Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

(b) Not applicable

(c) Officers:

Werthen Bradley	President	425 Crocker Bldg., S.F.
John D. Bradley	Exec. Vice Pres.	do
James P. Bradley	Vice Pres.	do
E. A. Griffen	Secty. & Treas.	do
G. C. Orten	Asst. Secty.	do

(d) Not applicable

No. 3(a) Patented claims as follows: Hennessey No. 3, Hennessey No. 5, Hennessey No. 6, Monday No. 2, Monday No. 3, Hennessey No. 4. Unpatented claims as follows: A No. 4, Monday No. 9, Monday No. 10, Monday No. 7, Monday No. 4, CDH No. 5, CDH No. 6.

(b) Yellow Pine Mine

(c) Owner

(d) Not applicable

(e) Only condition in connection with ownership of Yellow Pine Mine is the payment to the United Mercury Mines Co. of a 5% royalty on the net smelter returns from ore produced at the property.

(f) Book and Page Numbers for unpatented claims involved in the office of the County Recorder of Valley County, Cascade, Idaho.

Claim	Book	Page
A No. 4	6	202
Monday No. 9	6	216
Monday No. 10	6	217
Monday No. 7	6	215
Monday No. 4	6	213
CDH No. 5	12	465
CDH No. 6	12	467

No. 4(a) Mining and milling operations have been conducted at this property from 1932 to 1952 inclusive. Current mining is from open pit. Crushing done adjacent to pit and ore trucked to concentrator (55,000 tons per month capacity). Antimony concentrates and some gold concentrates treated in adjoining Yellow Pine Smelter. Finished products are antimony oxide, antimony metal and gold-silver residue. Appliant operates all facilities. All are accessible for examination purposes.

(b) Past & current production (shipments):

		1951	1932/1951
Gold	- Ounces	20,672	289,703
Silver	- Ounces	145,464	1,648,125
Antimony	- Lbs.	6,912,495	79,425,804
Tungsten	- S.T.U.	9,048	847,630

Bra[illegible]y Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 4(c) See letter of Dr. Carlton D. Hulin to Mr. John D. Bradley dated July 7, 1952 attached.

(d) Railhead is at Cascade, Idaho, a distance of approximately 80 miles. Supply center is Boise, a distance of approximately 160 miles. All necessary residence facilities are available at the property.

(e) All are readily available.

No. 5(a) Tungsten, antimony, gold.

(b) See Dr. Hulin letter 7/11/52 attached, also map.

(c) Project will be started immediately, providing that contract is approved before winter weather begins, and be completed within 12 months.

(d) As indicated above the Bradley Mining Co. has operated this property and others for many years and retains a competent staff of engineers.

No. 6(a) Independent Contractors $42,557.50

CDH Group of Claims - 3,000' of Drilling

3,000 feet drilling @ $4.73	$14,190.00
2,000 feet reaming & casing @ $2.65	5,300.00
80 feet pipe driving $9.00	720.00
	$20,210.00

Area Southeast of Pit -- 1,500' of Drilling

1,500 feet of drilling @ $5.02	$ 7,530.00
800 feet reaming & casing @ $2.65	2,120.00
60 feet driving pipe @ $9.00	540.00
	$10,190.00

Hennessey Creek Area -- 500' of Drilling

500 feet of drilling @ $5.10	$ 2,550.00
300 feet reaming & casing @ $2.65	795.00
75 feet driving pipe @ $9.00	675.00
	$ 4,020.00

North Tunnel Area -- 1,500 feet of Drilling

1,500 feet of drilling @ $4.10	$ 6,150.00
750 feet reaming & casing @ $2.65	1,987.50
	$ 8,137.50

(b) Labor, Supervision, Consultants $ 1,150.00

One geological consultant 10 days @ $115.00 $ 1,150.00

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 6(c) Operating Materials and Supplies $ 1,790.00

1,500 feet 1" pipe @ $0.18	$ 270.00	
500 feet 2" pipe @ 0.45	225.00	
4,000 board feet lumber @ $75.00/M	300.00	
500 feet 1/2" cable @ $0.19	95.00	
Misc.(nails,wire,wrenches,etc.)	100.00	
200 core boxes @ $4.00	800.00	
	$ 1,790.00	

(d) Operating equipment 360.00

One 315 cu. ft. compressor for 2 months. Replacement Value = $10,800.00. Depreciated at one sixtieth per month = $180.00. Two times $180.00 = $360.00.

(e) Rehabilitation and Repairs None

(f) New buildings, improvements, installation $ 1,280.00

Site preparation consisting of 20 days cat work @ $64.00 $ 1,280.00

(g) Miscellaneous $ 2,825.00

Analytical Work

500 Antimony Assays @ $1.50	$ 750.00
500 Gold Assays @ $0.75	375.00
100 Tungsten Assays @ $2.00	200.00
	$ 1,325.00

Engineering & Accounting

2 hours per day for one engineer and one hour per day for one accountant, the rate for each being $2.50 per hour including compensation insurance and payroll taxes. 200 working days.
200 x $7.50 $ 1,500.00

(h) None

TOTAL COST $49,962.50

No. 7(a) Yes

(b) Monthly costs will be paid by applicant and proper percentage charged monthly to D.M.E.A.

EXPLORATION

Subject: DMEA-2636
Re: Exploration Loan
Yellow Pine Mine
August 1, 1952

Mr. John D. Bradley
Bradley Mining Co.
425 Crocker Building
San Francisco 4, California

My dear Mr. Bradley:

This will acknowledge receipt of your application dated July, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2636 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2636 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operation's Control
and Statistics Division

7862

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 26, 1952

Mr. John D. Bradley
Executive Vice President
Bradley Mining Company
425 Crocker Building
San Francisco 4, California

Dear Jack:

This will acknowledge your proposed new DMEA projects at the Yellow Pine and Ima mines. They are being forwarded to Washington and an appraisal of them will be prepared as soon as possible. The amendments for the time extension and for the drill holes on the Stibnite project, as well as the approval of the work we discussed at Stibnite under the terms of the existing contract, should have reached you by now. The proposal for extension of the Ima contract has been sent to Washington with our recommendation together with Mr. Mecia's estimate of costs.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA
USBM

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

July 25, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

Enclosed are three copies of application by the Bradley Mining Company for other contracts both at Stibnite and at the Ima mine at Patterson, Idaho.

Both of these are considered desirable pieces of exploration, and one copy of each application is being retained here for a detailed analysis by the Bureau of Mines and Geological Survey members. An appropriate recommendation will then be prepared.

Very truly yours

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: U.S.B.M.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

July 25, 1952

Mr. Frank L. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

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Both of these are considered desirable pieces of exploration, and one copy of each application is being retained here for a detailed analysis by the Bureau of Mines and Geological Survey members. An appropriate recommendation will then be prepared.

Very truly yours

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: U.S.B.M.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2636
Metal or Mineral
Date Received 7-31-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

(YELLOW PINE)

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: BRADLEY MINING CO.
425 Crocker Bldg.
San Francisco 4, Calif.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

See attached for answers to all questions

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore .....

.....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

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(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated July, 1952

BRADLEY MINING CO.
(Applicant)

By John D. Bradley
Executive Vice President

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 1(a) Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

(b) Not applicable

(c) Officers:

Worthen Bradley	President	425 Crocker Bldg., S.F.
John D. Bradley	Exec. Vice Pres.	do
James P. Bradley	Vice Pres.	do
E. A. Griffen	Secty. & Treas.	do
G. C. Orton	Asst. Secty.	do

(d) Not applicable

No. 3(a) Patented claims as follows: Hennessey No. 3, Hennessey No. 5, Hennessey No. 6, Monday No. 2, Monday No. 3, Hennessey No. 4. Unpatented claims as follows: A No. 4, Monday No. 9, Monday No. 10, Monday No. 7, Monday No. 4, CDH No. 5, CDH No. 6.

(b) Yellow Pine Mine

(c) Owner

(d) Not applicable

(e) Only condition in connection with ownership of Yellow Pine Mine is the payment to the United Mercury Mines Co. of a 5% royalty on the net smelter returns from ore produced at the property.

(f) Book and Page Numbers for unpatented claims involved
In the office of the County Recorder of Valley County, Cascade, Idaho.

Claim	Book	Page
A No. 4	6	202
Monday No. 9	6	216
Monday No. 10	6	217
Monday No. 7	6	215
Monday No. 4	6	213
CDH No. 5	12	465
CDH No. 6	12	467

No. 4(a) Mining and milling operations have been conducted at this property from 1932 to 1952 inclusive. Current mining is from open pit. Crushing done adjacent to pit and ore trucked to concentrator (55,000 tons per month capacity). Antimony concentrates and some gold concentrates treated in adjoining Yellow Pine Smelter. Finished products are antimony oxide, antimony metal and gold-silver residue. Appliant operates all facilities. All are accessible for examination purposes.

(b) Past & current production (shipments):

	1951	1932/1951
Gold - Ounces	20,672	289,703
Silver - Ounces	145,464	1,648,125
Antimony - Lbs.	6,912,495	79,425,804
Tungsten - S.T.U.	9,048	847,630

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 4(c) See letter of Dr. Carlton D. Hulin to Mr. John D. Bradley dated July 7, 1952 attached.

(d) Railhead is at Cascade, Idaho, a distance of approximately 80 miles. Supply center is Boise, a distance of approximately 160 miles. All necessary residence facilities are available at the property.

(e) All are readily available.

No. 5(a) Tungsten, antimony, gold.

(b) See Dr. Hulin letter 7/11/52 attached, also map.

(c) Project will be started immediately, providing that contract is approved before winter weather begins, and be completed within 12 months.

(d) As indicated above the Bradley Mining Co. has operated this property and others for many years and retains a competent staff of engineers.

No. 6(a) Independent Contractors $42,557.50

CDH Group of Claims - 3,000' of Drilling

3,000	3,000 feet drilling @ $4.73	$14,190.00	4 holes av 750'
	2,000 feet reaming & casing @ $2.65	5,300.00	
	80 feet pipe driving @ $9.00	720.00	
		$20,210.00	

Area Southeast of Pit -- 1,500' of Drilling

1,500	1,500 feet of drilling @ $5.02	$ 7,530.00	4 holes av 375
	800 feet reaming & casing @ $2.65	2,120.00	
	60 feet driving pipe @ $9.00	540.00	
		$10,190.00	

Hennessey Creek Area -- 500' of Drilling

500	500 feet of drilling @ $5.10	$ 2,550.00	1 or 2 holes
	300 feet reaming & casing @ $2.65	795.00	
	75 feet driving pipe @ $9.00	675.00	
		$ 4,020.00	

North Tunnel Area -- 1,500 feet of Drilling

1,500	1,500 feet of drilling @ $4.10	$ 6,150.00	3 holes av 500
6,500	750 feet reaming & casing @ $2.65	1,987.50	
		$ 8,137.50	

(b) Labor, Supervision, Consultants $ 1,150.00

One geological consultant 10 days @ $115.00 $ 1,150.00

Bradley Mining Co.
425 Crocker Bldg.
San Francisco 4, Calif.

No. 6(c) Operating Materials and Supplies $ 1,790.00

1,500 feet 1" pipe @ $0.18	$	270.00
500 feet 2" pipe @ 0.45		225.00
4,000 board feet lumber @ $75.00/M		300.00
500 feet 1/2" cable @ $0.19		95.00
Misc.(nails,wire,wrenches,etc.)		100.00
200 core boxes @ $4.00		800.00
	$	1,790.00

(d) Operating equipment 360.00

One 315 cu. ft. compressor for 2 months. Replacement Value = $10,800.00. Depreciated at one sixtieth per month = $180.00. Two times $180.00 = $360.00.

(e) Rehabilitation and Repairs None

(f) New buildings, improvements, installation $ 1,280.00

Site preparation consisting of 20 days cat work @ $64.00 $ 1,280.00

(g) Miscellaneous $ 2,825.00

Analytical Work

500 Antimony Assays @ $1.50	$	750.00
500 Gold Assays @ $0.75		375.00
100 Tungsten Assays @ $2.00		200.00
	$	1,325.00

Engineering & Accounting

2 hours per day for one engineer and one hour per day for one accountant, the rate for each being $2.50 per hour including compensation insurance and payroll taxes. 200 working days.
200 x $7.50 $ 1,500.00

(h) None

TOTAL COST $49,962.50

No. 7(a) Yes

(b) Monthly costs will be paid by applicant and proper percentage charged monthly to D.M.E.A.

COPY

CARLTON D. HULIN
MINING GEOLOGY
ROOM 1208, CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA

July 11, 1952

Mr. John D. Bradley
Executive Vice President
Bradley Mining Co.
425 Crocker Building
San Francisco 4, California

Diamond Drilling Program
Stibnite, Idaho

Dear Jack:

I wish to recommend for your consideration, and for consideration by the Defense Minerals Exploration Administration, an exploration program involving diamond drilling of four areas in the immediate vicinity of Stibnite, Idaho. The program will involve the drilling of 6500 feet of drill hole together with preparatory work necessary for occupying the drilling locations recommended.

The four areas herein recommended for drilling represent structural targets which have been isolated and identified as a result of studies of geology, structure and mineralization of the Stibnite area extending over a period of years. The areas to be drilled are essentially virgin and in each case the conditions represented are regarded as favorable for the possible occurrence of antimony, gold or tungsten, or for any combination of these metals.

Geological Considerations

During the past years the Stibnite region has been highly productive of antimony, gold and tungsten, the production having come in large part from the Yellow Pine Mine and the Meadow Creek Mine.

Ore occurrences in the Stibnite region are localized in areas of intense fracturing and brecciation which are related to structural intersections.

The dominant structure is the Meadow Creek fault zone which strikes approximately North and South and which rolls in the direction of dip with the result that the dip may be to the East, to the West or vertical. Most ore occurrences are in the vicinity of intersections between the Meadow Creek zone and zones of faulting striking to the Northeastward.

Considerable evidence exists that to the south of the Yellow Pine open pit, in the vicinity of Fiddle Creek, the Meadow Creek fault splits into two main strands, one striking slightly East of North, the other slightly West of North. The evidence is in part physiographic and in part is based upon the relations between the surface outcrop and underground work in the Monday Tunnel and in the North Tunnel. The existence of the West strand of the Meadow Creek zone, while not positively demonstrated, offers the possibility for structural intersections which are completely virgin and untested.

The mineralization in the Stibnite area is epithermal (shallow type) in character, and the antimony, gold and tungsten ores were deposited within a rather closely limited vertical range. Thus, in addition to control of the location of the ore occurrences by structure, the vertical position of the ore occurrences is controlled by the primary epithermal zoning.

The areas for which drilling is herein proposed have been considered both as regards the presence of potential mineral structures and as to position with respect to the zonal deposition of the metals. The four areas will be discussed separately.

The C.D.H. Group

The C.D.H. Group lies approximately 2.2 miles south of Stibnite smelter at elevations of 8000 to 8100 feet. The possibilities of this area were first recognized from air photographs on which a major structural intersection was clearly apparent. Subsequently on the ground a large area of hydrothermal alteration was outlined with local areas of intense silicification. Trenching has proven the area to be on the south extension of the Meadow Creek zone and has yielded knowledge of some of the structural details of the area.

The surface of the C.D.H. Group at elevations of around 8000 feet is zonally too high for metal values to occur. Based upon studies of zoning in the Stibnite area it was anticipated that metal values would not occur in the C.D.H. area above an elevation of 7700 feet, more or less.

During 1951 a wildcat drill hole was put down to a depth of 628 feet. This drilling was done in advance of mapping, trenching or detailed knowledge of the structures of the area. In consequence this drill hole failed to penetrate any of the potential ore structures and remained in only slightly altered granite throughout. Nevertheless, with practically no metal value being shown in the first 360 feet of hole, strong showings of antimony were encountered in the hole starting at elevation 7735, and at 7660 elevation

assayable amounts of WO_3 were found with almost continuous low gold values being present from this elevation to the bottom of the hole. This drill hole, therefor, appears to substantiate the zonal distribution of metals which had been worked out for this area.

The drilling proposed for the C.D.H. Group will cut known potential ore structures at elevations below 7700 feet. These structures, in an area of structural intersection and shattering, show intensive mineralization and strong silicification in the outcrop. Due to lack of knowledge of dip of the structures present (indeterminate in the outcrop) four drill holes will be required to test the most intensively mineralized portion of this area.

The North Tunnel Area

The North Tunnel is on the south slope of Fiddle Creek approximately 3500 feet south of the Yellow Pine pit. Driven in 1927-28, the North Tunnel was generally assumed to be on the Meadow Creek zone. Reopened for examination in the autumn of 1951, the North Tunnel was found to be on a Northeast shear zone, the same zone cut in the Monday Tunnel just north of Fiddle Creek, with the Meadow Creek zone necessarily lying to the West of the North Tunnel.

The mineralized shear zone cut in the Monday Tunnel averaged 1.1 per cent antimony through a length of 240 feet and 40 feet of this distance averaged 2.35 per cent antimony. It is not known whether scheelite was present in this zone.

A second Northeast shear zone carrying antimony-gold-tungsten is known to lie to the east of the North Tunnel, with a third Northeast zone probably intersecting the Meadow Creek zone under Fiddle Creek.

The area of the North Tunnel is thus definitely known to be an area of intersection between the Meadow Creek zone and branching Northeast structures. The Meadow Creek zone in this potentially attractive area is completely unexplored.

Area Southeast of Yellow Pine Pit

Mineralization in the Yellow Pine antimony pit has generally been assumed to have been limited on the east by the Homestake fault, with the result that no effort has been made to explore beyond the fault to the southeast. The Homestake fault in this area is represented by a zone of fault gouge from 40 to 80 feet in thickness.

A few drill holes put down to prove ore in the south end of the antimony pit have incidentally in their extreme upper or extreme lower portions penetrated beyond the Homestake fault, and in each such case ore values have been encountered to the southeast of the fault zone. Well to the south a few drill holes put out to the eastward from the Monday Tunnel have likewise shown the presence of values in antimony, gold and tungsten.

We thus have a fairly large area lying to the east and southeast of the south end of the antimony pit which is completely unexplored except for a few fringing drill holes on the west and southwest. This area is known to be bounded on the east by a shear zone which, where exposed to the northward, carries a small amount of disseminated scheelite.

Exploration of this untested area lying to the southeast of the antimony pit by means of four drill holes as herein proposed would appear to offer favorable chances for the discovery of ore bodies carrying antimony, gold or tungsten, or any combination of these metals.

Hennessy Creek Area

The Yellow Pine antimony pit ore body as now recognized is bounded on the west by a strand of the Meadow Creek fault and on the north by the important "L" Fault zone.

Recent work in the northwest portion of the antimony pit has shown the "L" Fault zone continuing to the southwestward and strongly mineralized well beyond the Meadow Creek zone. On recent sampling 10 feet of the "L" Fault zone lying well to the west of the Meadow Creek zone assayed 1.55 per cent antimony with some gold.

Recognition of a probable western strand of the Meadow Creek zone lying some 500 feet or more to the west of the antimony pit leads immediately to the knowledge that a zone of intersection and probable brecciation and mineralization must exist between the "L" Fault structure and the structure represented by the western strand of the Meadow Creek zone. And the presence of strong mineralization in the "L" Fault structure well beyond the limits of the pit ore body greatly strengthens the possibility that the area of this intersection may be economically mineralized.

The intersection between the "L" Fault structure and the west strand of the Meadow Creek zone lies in an area which is completely unexplored and unmapped. Testing of this area by one or two diamond drill holes totaling 500 feet is strongly recommended.

Drilling Program

A total of 6500 feet of diamond drill hole, distributed approximately as follows, but subject to possible minor modification dependent upon results which may be obtained in the early stages of the drilling program.

C.D.H. Group

Four drill holes of 750 feet each or a total of 3000 feet of drill hole. Two holes are planned at this time, as follows, the exact location and attitude of the third and fourth holes to be based upon the results of the first two holes.

1 - Collar location at coordinate 7,240 N, 20,640 E, at approximately 8,075 feet elevation. Hole to bear N 80° E at an inclination of 58°. Length 750 feet. Hole to be surveyed at depths of 200, 400 and 600 feet.

2 - Collar location at coordinate 7500 N, 20,640 E, at approximately 7990 feet elevation. Hole to bear S 80° E at an inclination of 56°. Length 750 feet. Hole to be surveyed at depths of 200, 400 and 600 feet.

North Tunnel Area

Three drill holes totaling 1500 feet, of which two holes are planned as follows. Exact planning of the third hole, which will be aimed at the intersection of the west strand of the Meadow Creek fault and the Fiddle Creek fault, to be based upon the results of the first two drill holes,

1 - Drill hole to be collared at the east face of the east crosscut of the North Tunnel approximately at coordinate 25,945 N, 20,005 E, the hole to be flat and to bear S 70° E. Possible length 550 feet. The objective is the zone of mineralization known to branch from the Meadow Creek fault zone on Meadow Creek Ridge, and which is known to carry gold, antimony and tungsten (scheelite).

2 - Drill hole to be collared at the west face of the west crosscut of the North Tunnel, approximately at coordinate 25,945 N, 19,680 E, the hole to be flat and to bear S 40° W, which bearing is necessary to prevent the drill hole from penetrating alluvium. Length 500 feet or until the west limit of the Meadow Creek zone is reached, which should be less than this distance.

Southeast of Pit

Four surface holes, approximately as follows:

1 - From bench at south end of pit. Collar at coordinate 29,530 N, 20,380 E at elevation of about 6055 feet. Hole bearing S 30° E at minus 10° inclination. Length 500 feet.

2 - From bench at south end of pit. Collar at coordinate 29,530 N, 20,380 E at about 6055 feet elevation. Hole bearing S 60° E at minus 10° inclination. Planned length 400 feet but favorable results in this hole may make it desirable to extend this hole to 500 feet.

3 - From bench at south end of pit. Collar at coordinate 29,620 N, 20,395 E at elevation of about 6055 feet. The hole to bear S 75° E at minus 10° inclination. Planned length 350 feet but favorable results in this hole may make it desirable to extend this hole to 500 feet.

4 - From bench 8 at coordinate 29,870 N, 20,625 E, and at about 6075 feet elevation. Drill hole bearing S 10° W at minus 20° inclination. Length 350 feet.

Hennessy Creek

1 - At location near Hennessy Creek to be determined on the ground, in unsurveyed area in vicinity of coordinate 30,200 N, 19,500 E. This location will be near the intersection of the "L" Fault structure and the west strand of the Meadow Creek fault. The drill hole or holes to bear southward at an inclination to be determined after the collar location is prepared. Length 500 feet to be distributed between one or two holes.

Time is of the essence insofar as only several months of drilling time will be available during the fall of this year. Curtailment of drilling will be necessary during the winter and early spring, the work being resumed during the late Spring of 1953.

Very truly yours

Carlton D. Hulin

CDH/ja

YELLOW PINE MINE
Stibnite, Idaho

COORDINATES: 29,901.0 N
20,633.3 E

DIAMOND DRILL HOLE NO. B-217

BEARING: S 11° 57' W
INCLINATION: Minus 22°

ELEVATION: 6,070.4

Page No. 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 5	Dark grey, brecciated "granite ore", completely altered to 2½'; light grey completely altered granite to 5'. Stibnite in fractures. Disseminated pyrite.	95	Nil	.015	.19	Bx
5 - 10	No core recovery	0	"	.015	.18	"
10 - 15	" " "	0	"	.010	.05	Bx
15 - 20	Completely altered granite and aplite.	5	"	.005	.02	"
20 - 25	"Granite ore type" - intensely altered granite, some brecciation. Visible stibnite and disseminated pyrite	90	"	.020	.08	"
25 - 30	"Granite ore type". Disseminated pyrite, some stibnite.	50	"	.045	.08	"
30 - 35	Fault breccia, dark grey with disseminated stibnite and pyrite.	15	"	.045	.11	"
35 - 40	Fault breccia and gouge. Completely altered granite. Some pyrite	35	"	.015	.06	"
40 - 45	Fault breccia and gouge. Completely altered granite. Some pyrite.	20	"	.030	.14	"
45 - 50	Fault breccia and gouge. Dark grey to 47'; light grey to 50'. Pyrite.	50	Tr	.025	.72	"
50 - 55	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	40	Nil	.020	.29	"
55 - 60	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	60	"	.005	.14	"
60 - 65	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	30	"	.010	.05	"
65 - 70	Fault breccia and gouge. Chlorite and sericite, foliation. ~~Pies~~	95	"	.005	.04	"
70 - 75	Fault breccia & gouge. Chlorite & sericite, Fol.	65	"	.005	.19	"
75 - 80	" " " " " " " "	60	"	Tr	.18	"
80 - 85	" " " " " " " "	20	"	.005	.09	"
85 - 90	" " " " Chlorite	20	"	Tr	.04	"
90 - 95	" " " " Abundant quartz fragments. White color	75	"	Tr	.05	"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
95 -100	Fault breccia & gouge. Abundant quartz fragments. White color	85	Nil	Tr	.04	BX
100-105	Fault breccia & gouge. Some unbrecciated splite. Disseminated pyrite.	5	"	Tr	.09	"
105-110	Fault breccia & gouge. Abundant quartz fragments. White color	35	"	Tr	.06	"
110-115	Fault breccia & gouge. Abundant quartz fragments. White color.	60	"	.010	.04	"
115-120	No core recovery.	0	"	Tr	.03	"
120-125	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	55	"	.005	.03	"
125-130	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite	40	"	Tr	.03	"
130-135	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	60	"	Tr	.04	"
135-140	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	75	"	Tr	.04	"
140-145	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	45	"	Tr	.03	"
145-150	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	35	"	Tr	.04	"
150-155	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	85	"	.005	.04	"
155-160	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	50	"	.005	.04	"
160-165	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	10	"	.005	.02	"
165-170	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.08	"
170-175	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.05	"
175-180	Fault breccia and gouge. Pale green color. Mainly chlorite and sericite.	95	"	Tr	.04	"
180-185	Fault breccia and gouge. Very faint green color.	95	"	.005	.23	"
185-190	" " " " " " " "	35	"	Tr	.03	"
190-195	" " " " Greenish-grey color. Chlorite and sericite.	90	"	Tr	.12	"
195-200	Fault breccia and gouge. " " " Chlorite and sericite.	90	"	Tr	.06	"

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Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% WO3	Oz. Au	% Sb	Size Core
200-205	Fault breccia and gouge. Greenish-grey color. Chlorite and sericite.	70	Nil	.005	.03	Bx
205-210	Fault breccia and gouge. " " " Chlorite and sericite.	70	"	.005	.31	"
210-215	Fault breccia and gouge. " " " Chlorite and sericite.	40	"	.005	.06	"
215-220	Fault breccia and gouge. " " "	95	"	Tr	.02	"
220-225	Fault breccia and gouge. Altered aplite.	10	"	Tr	.01	Bx
225-230	" " " " Black gouge, foliated.	10	"	Tr	.01	"
230-235	" " " " Altered aplite. Sulfides in fractures.	10	"	Tr	.03	"
235-240	Fault breccia and gouge. Altered aplite.	15	"	.010	.03	"
240-245	" " " " " "	20	"	.015	.04	"
245-250	Altered aplite with sericite. 249-250' chlorite and sericite.	30	"	.015	.03	"
250-255	No core recovery.	0	"	.010	.01	"
255-260	Completely altered granite and aplite. Some pyrite	10	"	Tr	.02	"
260-265	" " " " " Some. prec.	35	"	Tr	.03	"
265-270	Mainly altered aplite and granite. Some fresh fine-grained granite.	95	"	.020	Tr	"
270-275	Granite, some aplite. About 90% altered.	95	"	Tr	.02	"
275-280	" " " " " "	80	"	Tr		"
280-285	" " " " " "	10	"	.005		"
285-290	" " " " " "	100	"	.005	.04	"
290-295	" about 90% altered.	60	"	.005		"
295-300	" " " "	90	"	.005		"
300-305	Altered granite, some aplite.	90	"	.005		"
305-310	Granite, about 90% altered.	100	"	.005	.02	"
310-315	" " " "	85	"	Tr		"
315-320	" " " "	60	"	Tr		"
320-325	Granite and aplite, about 75% altered. Pyrite at 321'.	70	"	.010		"
325-330	Altered granite to 326'; aplite to 328'; fresh fine-grained granite to 330'.	55	"	.010		"
330-335	Fine-grained granite, occasionally fresh.	85	"	.005	.01	"
335-340	Altered granite and aplite to 326'; fresh fine-grained granite to 340'.	90	"	.015		"
340-345	Fresh fine-grained granite.	100	"	.005		"
345-350	" " " "	100	"	Tr		"

Diamond Drill Hole No. B-217 - continued

Footage	Description	Recovery %	WO_3 %	Oz. Au	% Sb	Size Core
350-355	Altered granite to 351'; fresh fine-grained granite to 355'.	75	Nil	.015		Ax
355-360	Fresh fine-grained granite.	90	"	.015		"
360-365	" " " "	80	"	.005	.06	"
365-370	Fresh " " " to 367'; aplite to 368'; partially altered granite to 370'.	95	"	Tr		"
370-371	Fresh fine-grained granite.	75	"	Tr		"

End of hole at 371 feet.

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: June 22, 1953; finished June 30, 1953.

Table and Co.
Stibnite, Idaho

Coordinates: 29,280.0 N
30,388.8 W
Elevation: 6,972.5

Bearing: S 25° E
Dip: Minus 10°
Hole No. 1

Footage	Mineralogy	% recovery	% Sb	Oz. Au	% Sb	Size core
0 - 5	No core	0	No sludge			HX
5 - 10	No core	0	No sludge			"
10 - 15	Brecciated and sericite and sulfide.	46	.011	.005	.07	HX
15 - 20	" " " "	90	"	.010	.22	"
20 - 25	Fault breccia with small amounts stibnite and specks of pyrite	14	"	tr	.15	"
25 - 30	Fault breccia with small amounts stibnite and specks of pyrite	44	"	.010	.06	"
30 - 35	Fault breccia, sericitized	20	"	.005	.05	"
35 - 40	Fault breccia with some stringers of stibnite	50	"	.005	.12	"
40 - 45	Fault breccia, chloritized and sericitized	0	"	tr	.03	"
45 - 50	" " " " "	46	"	tr	.05	"
50 - 55	" " " " "	66	"	.005	.05	"
55 - 60	Brecciated and altered granite with stringers of stibnite and pyrite specks	63	"	.015	.09	"
60 - 65	Brecciated and altered granite with stringers of stibnite and pyrite specks 60-66.5 greenish gray granite; 66.5-68 sylite; 68-70 greenish blue and gray granite with abundance of fine grained pyrite	98	"	.010	.09	"
65 - 70	Brecciated and altered granite, gray color, pyrite specks and stibnite in stocks	76	"	.015	.30	"
70 - 75	Brecciated and altered granite, stibnite at 72-73 ft. and at 74.5-75 ft.	66	"	.015	1.32	"
75 - 80	Brecciated and altered granite. Good stibnite at 75-76 and 79-80 ft.	42	"	.010	3.56	"
80 - 85	Brecciated and altered granite. Stibnite from 81-83; 83-85 fine grained granite turn altered	90	"	.015	1.41	"
85 - 90	Altered granite. Stringers in places	52	"	.005	.03	"
90 - 95	" " " " " 90-92 dark gray color; 92-95 whitish gray color and friable	74	"	.010	.20	"
95 - 100	Fault breccia; 95-96.5 white-gray; 96.5-100 dark gray, black streaks in stringers.	76	"	.020	.17	"

Footage	Lithology	Recovery %	Cu	Sb	Also Core
100-109	Reddish-grey brecciated and altered granite	90	Nil	.010	.13	Ox
109-116	Brecciated and sericitized altered granite, gray	70	"	.015	.15	"
116-119	Mainly sericite and chlorite, chinese granite. 114-115 altered granite	10	"	.010	.17	"
119-120	119-118 altered granite, brecciated. 118-119.5 basaltic granite. 119.5-120 altered granite.	40	"	.015	.18	"
			"	.010	.13	"
120-125	120-121 brecciated altered granite. 121-125 aplite	56	"	.015	.09	"
125-130	Brecciated granite, bleached and highly sericitized	13	"	.015	.09	"
130-135	Fault breccia, chloritized and sericitized, very friable	56	"	.005	.05	"
135-140	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	5	"	.005	.09	"
140-145	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	10	"	.005	.09	"
145-150	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	70	"	Tr	.07	"
150-155	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	98	"	.005	.09	"
155-160	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	90	"	Tr	.10	"
160-165	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	16	"	Tr	.10	"
165-170	165-169.5 brecciated granite; 169.5-167.5 soaps with stibnite; 167.5-168.5 altered diorite; 168.5-170 fresh diorite	70	"	.005	.19	"
170-175	Diorite (porphyritic)	74	"	.005	.07	"
175-180	" "	99	"	Tr	.06	"
180-185	183-184 diorite; 184-185 brecciated diorite	75	"	Tr	.05	"
185-190	Highly brecciated and altered granite with streaks of black sulfides	60	"	.010	.06	"
190-195	190-192 highly brecciated granite with abundant streaks of sulfides; 192-193 greyish white altered granite; 193-195 brecciated and altered granite, gray color; stibnite in fracture at 194.	90	"	.010	.10	"
195-200	Brecciated and altered granite; stibnite at 197; 199-200 greenish granite	98	"	Tr	.13	Ox from 199

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Diamond Drill hole No. 3-215

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Site Core
200-205	200-202 gneissoid granite; 202-205 brecciated altered fine grained granite	34	nil	Tr	.06	Ax
205-210	Altered fine grained granite	72	"	.005	.09	"
210-215	210-213 altered granite; 213-214 altered gneissoid granite; 214-215 fault breccia	50	"	.010	.11	"
215-220	Fault breccia, chloritized and sericitized	22	"	.005	.03	"
220-225	Highly brecciated rock. Streaks of stibnite. Iron stained quartz	20	"	.030	.04	"
225-230	225-226 white breccia. 226-227 breccia, sericitized and chloritized with stibnite in breccia. 227-228 white breccia with red streak at 222. 228-229.5 greenish chlorite, carbonate. 229.5-232 white breccia	92	"	.005	.05	"
230-235	White and pale green brecciated aplite and granite	70	"	.005	.035	"
235-240	Chloritized and sericitized brecciated rock. Block gouge at 235.5	72	"	.005	.045	"
240-245	Mainly gneissoid altered granite, partly brecciated	74	"	Tr	.03	"
245-250	245-247, white breccia. 247-250 chloritized and sericitized fault breccia with specks of reddish (Fe) stained quartz. Some sb streaks in green at 248	86	"	.005	.12	"
250-255	250-250.5 sericitized and chloritized breccia. 250.5-252.5 white breccia. 252.5-253 grey breccia and somewhat altered gneissoid granite. 253-255 fine grained granite, somewhat altered and brecciated. Red specks present. Specks of stibnite and pyrite in crack at 254 ft.	76	"	.005	.04	"
255-260	Slightly altered gneissoid granite. Sericitized in places	89	"	Tr	.22	"
260-265	Slightly altered and bleached gneissoid granite. sb and pyrite at 260'.	28	"	Tr	.03	"
265-270	Bleached breccia. Mineralized with sb and pyrite	6	"	Tr	.04	"
270-275	Chloritized and sericitized breccia with some red specks of quartz	12	"	.005	.05	"
275-280	275-279 breccia. 279-280 gneissoid granite, slightly altered	24	"	Tr	.03	"
280-285	280-282.5 gneissoid granite, rather fresh. 282.5-283 altered gneissoid granite; altered 60%. Specks of pyrite at 284, red specks.	86	"	Tr	.03	"

Centers	Mineralogy	Recovery	%	Oz. Au	% Cu	Size Core
285-290	Aplite	11	[illegible]	Tr	.02	AX
290-295	290-293 aplite. 293-295 slightly altered					
	brecciated granite with red specks	15	"	Tr	.03	"
295-300	almost fresh brecciated granite	14	"	Tr	.03	"
300-305	no core	[illegible]	"	Tr	.04	"
305-310	Grayish white breccia, sericitized. Red specks and					
	pyrite specks seen. Some siliceous stringers	7	"	Tr	.04	"
310-315	White breccia aplite. Slightly tinted red, med. grain	3	"	Tr	.04	"
315-320	" " "	3	"	Tr	.04	"
320-325	" " "	17	"	Tr	.02	"
325-330	" " " specks of pyrite at 327; red					
	quartz at 330	21	"	Tr	.04	"
330-335	" " " medium grain	26	"	Tr	.04	"
335-340	" " " " "	20	"	Tr	.03	"
340-345	Whitish gray breccia, black zone at 345, specks					
	of sulfides.	30	"	Tr	.02	"
345-350	Whitish gray breccia, stringers of Sb and specks					
	of pyrite	0	"	Tr	.05	"
350-355	Breccia, sericitized and chloritized. Stringers					
	of sulfides	30	"	Tr	.04	"
355-360	Mainly sericitized breccia, strong silicifying, gray	20	"	Tr	.03	"
360-365	Brecciated schist, bluish gray. Aplite at 361 & 364	38	"	Tr	.03	"
365-370	" " " " Aplite (altered) at					
	366-367	97	"	Tr	.05	"
370-375	" " " "	30	"	Tr	.04	"
375-380	" " " " aplite at 379	68	"	Tr	.06	"
380-385	" " " "	56	"	Tr	.05	"
385-390	" " " "	34	"	Tr	.05	"
390-395	390-391 fault zone, brecciated aplite. 391-395					
	brecciated schist	60	"	.005	.05	6X from 391
395-400	Aplite	15	"	Tr	.07	BX
400-405	Altered fine grain granite	42	"	Tr	.03	"
405-410	405-409 aplite; 409-410 altered schist	16	"	Tr	.04	"
410-415	Chloritized and sericitized schist	30	"	.005	.07	"
415-420	Altered and bleached granite	38	"	.005	.04	"
420-425	Altered granite	14	"	.010	.06	"
425-430	425-427 brecciated schist. 427-430 bleached and					
	sericitized schist	65	"	.009	.06	"

Footage	Lithology	% Recovery	% Cu	Oz. Au	% Zn	Also Core
430-435	430-432 altered schistose granite. 432-435 gneissoid schist	28	nil	Tr	.05	Ss
435-440	Gneissoid schist	96	"	.005	.03	"
440-445	Mildly altered schist and aplite	18	"	.005	.07	"
445-450	Gneissoid schist	96	"	.005	.09	"
450-455	Gneissoid schist, brecciated aplite 454-455	36	"	Tr	.09	"
455-460	Brecciated aplite, altered	14	"	.005	.05	"
460-465	Brecciated aplite, sericitized in places	48	"	.005	.15	"
465-470	Gneissoid schist	60	"	.020	.08	"
470-475	Gneissoid schist, slightly bleached at 470-471	30	"	.005	.06	"
475-480	Slightly altered fine grained granite (30% alteration) to 479. 479-480 gneissoid schist	58	"	.015	.03	"
480-485	Gneissoid schist	20	"	.005	.05	"
485-490	Gneissoid schist (bleached slightly)	48	"	.005	.06	"
490-495	" " " "	52	"	.005	.05	"
495-500	Altered granite and gneissoid schist. Aplite at 500'	30	"	.005	.04	"

End of hole at 500 feet

Note: All assays are sludge assays. All values of %Cu determined by leaching. All core and sludges leached.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/6/53 - finished 7/17/53

COORDINATES: 29,999 N

20,391 E

ELEVATION: 6,073

[illegible]

DIAMOND DRILL HOLE NO. H-219

BEARING: S 85° E

INCLINATION: Minus 10°

Page 1

Footage	Mineralogy	% Recovery	% Cu	Wt. Au	% Sb	Size Core
0 - 5	Brecciated & altered granite with streaks of fine-grained sulfides	6	All	0.015	0.04	56
5 - 10	Brecciated & altered granite with streaks of fine-grained sulfides	49	"	0.009	.04	"
10 - 15	Brecciated granite, mineralized with minor stibnite and specks of pyrite	22	"	.010	.04	from 11' 86
15 - 20	Mineralized granite and aplite with fine-grained pyrite and minor stibnite	8	"	.035	.03	"
20 - 25	Fractured aplite also fine-grained pyrite and minor stibnite	0	"	.045	.06	"
25 - 30	25-26, aplite with streaks of stibnite and pyrite. 26-30, fault breccia with sericite and chlorite. Streaks of stibnite in places	66	"	.010	.05	"
30 - 35	Fault breccia with sericite and chlorite. Streaks of stibnite in places	46	"	.020	.05	"
35 - 40	35-36, fault breccia with sericite and chlorite. Streaks of stibnite in places 36-40, altered dacite dike	15	"	.005	.05	"
40 - 45	altered dacite dike	92	"	.005	.03	"
45-50	Partly altered dacite dike	65	"	.015	.06	"
50 - 55	" " " "	100	"	Tr	.06	"
55 - 60	Slightly altered granite	90	"	Tr	.16	"
60 - 65	60-61' fresh granite; 63-65 slightly altered granite, specks of sulfides	70	"	Tr	.12	"
65-70	Fresh granite	52	"	.005	.06	"
70-75	Altered granite with minor stibnite and specks of pyrite	70	"	.005	.07	"
75 - 80	Altered granite with minor stibnite & specks of pyrite	40	"	.005	.06	"
80 - 85	80-81' altered granite. 81-83' also dacite. Chloritized. Breccia at 83	45	"	Tr	.04	"
85 - 90	Also sericite	56	"	Tr	.07	"
90 - 95	Also sericite, brecciated from 91 to 92 ft.	74	"	Tr	.06	"
95 -100	Also sericite, brecciated & chloritized. Quartz at 96.	50	"	Tr	.04	"

Footage	Mineralogy	Mercury	MoS	Cu, %	Pb	Size Core
100-105	Blue schist, brecciated and chloritized	16	Nil	Tr	.06	BX
105-110	105-108 Mica schist, brecciated and chloritized, 108-110 altered granite, stringers of sulfides in gneiss	76	"	Tr	.06	"
110-115	Mica schist, brecciated	45	"	Tr	.03	"
115-120	115-116 mica schist, 116-120 brecciated mica schist	15	"	Tr	.07	"
120-125	Fault breccia, completely altered, mainly white colored, soft	94	"	Tr	.04	"
125-130	Fault breccia, completely altered, mainly white colored, soft. Sulfides 128-130'	80	Nil	Tr	.04	"
130-135	Fault breccia, completely altered, mainly white colored, soft	75	"	Tr	.06	"
135-140	Fault breccia, completely altered, mainly white colored, soft	84	"	Tr	.05	"
140-145	Fault breccia, completely altered, mainly white colored, soft	78	"	.005	.04	"
145-150	Fault breccia, completely altered, mainly white colored, soft	18	"	Tr	.04	"
150-155	Fault breccia, completely altered, mainly white colored, soft	40	"	Tr	.06	"
155-160	Fault breccia, completely altered, mainly white colored, soft. Minor sulfides at 160'.	50	"	Tr	.04	"
160-165	Fault breccia, completely altered, mainly white colored, soft	25	"	Tr	.04	"
165-170	Fault breccia, completely altered, mainly white colored, soft	65	"	Tr	.04	"
170-175	Altered granite	8	"	Tr	.03	"
175-180	" 176-180' Sericite dike	72	"	Tr	.07	"
180-185	Sericite dike	90	"	Tr	.06	2% Pyrite
185-190	Brecciated sericite 185-188'. Fault breccia, greenish	65	"	Tr	.03	" 188'
190-195	Fault breccia, completely altered, greenish color, somewhat schistose	50	"	.005	.08	"
195-200	Fault breccia, completely altered, greenish color, somewhat schistose	14	"	Tr	.04	"
200-205	Fault breccia, completely altered, greenish color, somewhat schistose	68	"	Tr	.05	"
205-210	Fault breccia, completely altered, greenish color, somewhat schistose	82	"	Tr	.04	"

Diamond Drill Hole No. [illegible] - Page 3

Footage	Mineralogy	Recovery %	Au	Cu	Size Core
210-215	Fault breccia, green & schistose to 211, white to 215	77	Nil	Tr	.05	6S
215-220	" " white altered	15	"	Tr	.03	"
220-225	" " " " . Specks of sulfides	10	"	Tr	.02	"
225-230	" " " "	50	"	Tr	.02	"
230-235	" " " " . Specks of sulfides	40	"	Tr	.03	"
235-240	" " " " to 237, noticeably altered granite and aplite to 240'. Specks of sulfides.	12	"	Tr	.02	"
240-245	completely altered granite and aplite	12	"	Tr	.04	"
245-250	No core recovery	0	"	Tr	.03	"
250-255	" " "	0	"	Tr	.04	"
255-260	" " "	0	"	Tr	.03	"
260-265	" " "	0	"	Tr	.03	" 5S Core
265-270	Completely altered granite and aplite	10	"	Tr	.03	" 7S
270-275	Granite & aplite, about 70% altered. Very clear sulfides	60	"	Tr	.04	"
275-280	" " " " " "	25	"	Tr	.02	"
280-285	" " " " " "	20	"	Tr	.02	"
285-290	" " " " " "	15	"	Tr	Tr	"
290-291	" " " " " "	15	"			

End of hole at 291 feet.

Note: All assays are client's assays. All values of mineralization by logging. All cost and sludges logged.

Hole drilled by Nicholls and Thompson Core Drilling Co.
Date started: 7/21/53; finished 7/26/53.

COORDINATES: 30,182.6 N
19,516.5 E

ELEVATION: 6,366.3

KELLY FIRE MINE
STEWART, IDAHO

DIAMOND DRILL HOLE NO. D-220

BEARING: S 3° 59' E

INCLINATION: Minus 60°

Page 1

Footage	Mineralogy	% Recovery	% +03	Oz. Au	% Sb	Size Core
0 - 20	Overburden, granitic soil and weathered granite boulders					5X
20 - 25	" " " " " " "		nil	Tr	.01	"
25 - 30	" " " " " " "		"	Tr	.01	"
30 - 35	" " " " " " "		"	Tr	.01	"
35 - 40	Bedrock at 35'. Intensely weathered granite	29	"	Tr	.01	"
40 - 45	Intensely weathered granite	38	"	Tr	.01	"
45 - 50	" " "	28	"	Tr	.02	"
50 - 55	50-51, weathered granite as above. 51-55, fresh granite with limonite along fractures	75	"	Tr	.02	"
55 - 60	Fresh granite, limonite in fractures	94	"	Tr	.02	"
60 - 65	" " " " " , slight alteration from 64-65	68	"	Tr	.02	5X
65 - 70	Altered granite (40% alteration). Limonite along fractures. Some streaks of sulfides at 68'. Aplite 69-70'	62	"	Tr	.02	"
70 - 75	Altered granite and aplite (40% altered) with limonite and some streaks of sulfides in fractures	35	"	Tr	.02	"
75 - 80	Aplite, slightly brecciated and thoroughly stained with iron oxides. Limonite along fractures	36	"	Tr	.02	"
80 - 85	Aplite, iron stained, limonite along fractures. Streaks of sulfides along some fractures	45	"	Tr	.02	"
85 - 90	Aplite with streaks and specks of sulfides along fractures. Some limonite at 90.	79	"	Tr	.02	"
90 - 95	Aplite, streaks and specks of sulfides along fractures	52	"	Tr	.02	"
95 -100	Aplite. Streaks of sulfides along some fractures	58	"	Tr	.02	"
100-105	Aplite. Specks of sulfides along fracture at 101 only	52	"	Tr	.02	"
105-110	Aplite. Streaks and specks of sulfides and specks of pyrite at 107	74	"	Tr	.01	"
110-115	Aplite. Specks of sulfides at 111	58	"	Tr	.01	10X from 113
115-120	Aplite. Streaks of sulfides in fracture at 120	14	"	Tr	.01	"
120-125	Aplite and slightly altered granite	36	"	Tr	.02	"

Diamond Drill Hole No. E-220 - page 2

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
125-130	125-127½, altered granite. 127½-130, aplite. Streaks and specks of sulfides	62	Nil	Tr	.01	BX
130-135	Aplite, streaks of sulfides	15	"	Tr	.01	"
135-140	Somewhat altered granite	16	"	Tr	.01	"
140-145	Aplite	7	"	Tr	.01	"
145-150	Aplite, specks of sulfides	34	"	Tr	.02	"
150-155	Aplite	36	"	Tr	.02	"
155-160	Aplite, streaks and specks of sulfides at 160	54	"	Tr	.02	"
160-165	Aplite, " " " " "	40	"	Tr	.02	"
165-170	Altered granite, streaks of sulfides	57	"	Tr	.02	"
170-175	Altered granite (60%), specks of sulfides	15	"	Tr	.02	"
175-180	175-178 altered granite with streaks of sulfides. 178-180 aplite	85	"	Tr	.04	"
180-185	Aplite, some altered granite	32	"	.005	.04	"
185-190	" " " "	58	"	Tr	.04	"
190-195	" " " " , Sulfides along fractures	48	"	Tr	.02	"
195-200	" " " "	54	"	Tr	.02	"
200-205	" " " "	58	"	Tr	.02	"
205-210	" , breccia and gouge 209-210	32	"	.010	.02	"
210-215	"	50	"	Tr	.04	"
215-220	215-218, aplite. 218-220 partially (25%) altered granite	82	"	Tr	.04	"
220-225	Partially (25%) altered granite	60	"	Tr	.04	"
225-230	Essentially fresh granite. Aplite at 226 & 230	56	"	Tr	.01	"
230-235	230-233, aplite. 233-235, fresh granite	45	"	Tr	.01	"
235-240	Mainly fresh granite	56	"	Tr	.01	"
240-245	240-243, aplite. 243-245, partially (20%) altered granite	58	"	Tr	.17	"
245-250	245-247, aplite. 247-250, altered (40%) granite	38	"	Tr	.17	"
250-255	Altered (60%) granite. Specks and streaks of sulfides	15	"	Tr	.17	"
255-260	" " " " " " " "	15	"	.005	.03	"
260-265	Fresh granite	78	"	Tr	.03	"
265-270	" " to 267, aplite to 270	67	"	Tr	.03	"
270-275	Aplite to 271, fresh granite to 273, slightly altered (25%), granite to 275	56	"	.005	.02	"
275-278	Fresh granite	78	"	.005	.02	"

End of hole at 278 feet

Note: All assays are sludge assays. All values of Au determined by lemping. All core and sludges lemped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/31/53; finished 8/5/53

COORDINATES: 30,175.6 E

19,909.7 S

ELEVATION: 6,367.0

[illegible] MINE
[illegible]

DIAMOND DRILL HOLE NO. A-221

BEARING: S 63° 16' W

INCLINATION: Minus 65°

Hole 1

Footage	Mineralogy	% Recovery	Au	Cu	% Au	% Cu	Diag Core
0 - 5	Overburden	0					BX
5 - 10	"	0	Nil	Tr		.01	"
10 - 15	"	0	"				"
15 - 20	Bedrock at 15', no core recovery	0	"				"
20 - 25	Intensely weathered granite	36	"				"
25 - 30	" " "	92	"	Tr		.01	"
30 - 35	Somewhat altered granite (30% altered) weathered along fractures	92	"				"
35 - 40	Somewhat altered granite (30% altered) weathered along fractures	70	"				BX
40 - 45	40-41½ granite, stained with limonite along fractures. 41½-45 mainly aplite, limonite along fractures.	96	"	Tr		.02	"
45 - 50	Altered (30% alteration) granite and aplite, stained with limonite	83	"				"
50 - 55	Aplite, iron stained along fractures	75	"				"
55 - 60	" " " " "	100	"	Tr		.01	"
60 - 65	Altered (30%) granite, limonite along fractures	90	"				"
65 - 70	" " " " "	95	"				"
70 - 75	Somewhat altered aplite, minor granite	90	"	.005		.02	"
75 - 80	" " "	90	"				"
80 - 85	" " "	80	"				"
85 - 90	" " " , some streaks of sulfides	96	"	.005		.01	"
90 - 95	90-92 aplite, 92-95 altered (30%) granite, minor sulfides in fractures	90	"				"
95 -100	Altered (30%) aplite and granite	86	"				"
100-105	Altered (30%) granite	66	"	.005		.02	"
105-110	" " "	84	"				"

Meters	Lithology	% Recovery	% RQD	Wt. oz	% Sb	Size Core
110-115	Altered (JOS) granite	92	111			3"
115-120	" " "	94	"	Tr	.03	"
120-125	" " "	80	"			"
125-130	" " "	80	"			"
130-135	" " "	50	"	.005	.01	"
135-140	" " "	82	"			"
140-145	" " " to 143. Fresh granite to 145.	97	"			"
145-150	Fresh granite, some aplite	94	"	Tr	.01	"
150-155	" " " " . Altered (JOS) granite					"
	152-154	42	"			"
155-160	155-156 slightly altered granite; 156-160 aplite	96	"			"
160-165	Altered (JOS) granite, some aplite	56	"	Tr	.02	"
165-170	Granite, some aplite. Granite varies from fresh to altered (JOS)	95	"			"
170-175	Granite, some aplite. Granite varies from fresh to altered (JOS)	95	"	Tr	.02	"
175-180	175-178 fresh granite; 178-180 aplite	70	"			"
180-185	Aplite	60	"			"
185-190	Granite, some aplite. Granite varies from fresh to altered (JOS)	34	"	Tr	.02	"
190-195	Altered granite (JOS)	70	"			"
195-200	Altered granite (JOS). Some fresh granite & aplite	92	"			"
200-205	Mainly altered granite (JOS), some fresh granite	66	"	Tr	.03	"
205-210	Essentially fresh granite, minor areas of alteration	60	"			"
210-215	Fresh granite	79	"			"
215-220	Essentially altered (JOS) granite and aplite	64	"	Tr	.02	"
220-225	" " " " " "	18	"			"
225-230	" " " "	36	"			"
230-235	" " " "	58	"	Tr	.02	"
235-240	" " " " . Lacers of sulfides along fractures	44	"			"

Footage	Description	Recovery %	WO3	Cu.	Mo	Pb	Size Core
245-249	Aplite, some altered (30%) granite	84	[illegible]				6A
249-250	249-249½, aplite; 249½-250 fault breccia - gouge	95	"	Tr		.01	"
250-255	Altered granite (50% altered). Broken from 250-251½	90	"				"
255-260	255-257½ altered (30%) granite. 257½-260 aplite	40	"				"
260-265	Altered (30%) granite	30	"	Tr		.02	"
265-270	Altered (30%) granite and aplite	50	"				"
270-275	" " " " "	50	"				"
275-280	" " " " "	60	"				"
280-285	" " " " "	62	"	Tr		.01	"
285-290	" " "	64	"				"
290-295	" " "	40	"	Tr		Tr	"
295-300	" " "	40	"				"
300-305	" " "	52	"				"
305-310	" " " from 305-307. Aplite from 307-310. Sulfide stringers in some fractures	62	"	Tr		.02	"
310-315	Altered (30%) granite	9	"				"
315-320	" " "	11	"				"
320-325	" " "	54	"	Tr		.02	"
325-330	" " "	15	"				"
330-335	Aplite	68	"	Tr		.03	"
335-340	Slightly altered (20% alt.) granite	32	"				"
340-345	Fresh granite	50	"				"
345-350	" "	50	"	Tr		.02	"
350-355	" "	52	"				"
355-358	" " and aplite	42	"	Tr		.03	"

End of hole at 358 feet.

Note: All assays are sludge assays. All values of WO_3 determined by leaching. All core and sludges lost.

Hole drilled by Lincoln and Thompson Core Drilling Co.
Date started: 6/7/53; finished 6/22/53

RECEIVED
JAN 3 1

COORDINATES: 23,937.0 N
30,019.3 E

ELEVATION: 6,939.7

[illegible]

DIAMOND DRILL HOLE No. 80-1

BEARING: S 61° 42' E

INCLINATION: Plus 1°

Page 1

Footage	Mineralogy	% Recovery	% MoS2	Oz. Au	% Sb	Size Core
0 - 5	Chloritized mica schist	47	No sludge sample			BX
5 - 10	" " "	47	" " "			"
10 - 15	" " "	45	" " "			BX Core
15 - 20	" " "	50	Nil	.015	.10	" 12
20 - 25	" " "	37	"	.005	.12	"
25 - 30	" " "	24	"	.020	.05	"
30 - 35	30-32, as above. 32-34, brecciated & sericitized granitic rock, with antimony mineralization. 234-235' chloritized mica schist	28	"	.050	.08	"
35 - 40	35-37', chloritized mica schist. 37-40' brecciated, completely altered granite, well mineralized with sulfides	32	"	.015	.06	"
40 - 45	Aplite with antimony stringers, pyrite specks	36	"	.020	.09	"
45 - 50	Aplite. Some antimony streaks in crevice	38	"	.020	.16	"
50 - 55	50-51, aplite, with sulfide mineralization. 51-55, mica schist	45	"	.005	.08	"
55 - 60	55-56, mica schist. 56-60, aplite - brecciated at 60	96	"	.005	.05	"
60 - 65	60-64, aplite, mineralized with Sb at 64. 64-65 chloritized mica schist	60	"	.020	.06	"
65 - 70	chloritized mica schist	88	"	.005	.17	"
70 - 75	70-73, chloritized mica schist. 73-75, breccia with black Sb mineralization	28	"	.005	.21	"
75 - 80	Completely altered granite, well mineralized. Some aplite	55	"	.010	.13	"
80 - 85	" " " " " " "	24	"	.010	.06	"
85 - 90	" " " " " " "	25	"	.010	.12	"
90 - 95	90-91, mica schist. 91-95 completely altered granite, well mineralized with sulfides	92	"	.015	.18	"
95 -100	Completely altered granite, well mineralized with sulfides	48	"	.025	.20	"
100-105	" " " " " " "	30	"	.025	.12	"
105-110	" " " " " " "	46	"	.025	.13	"

Diamond Drill Hole No. TS-1 - page 2

Depths	Mineralogy	% Recovery	% MoS	Oz. Au	% Sb	Size Core
110-115	Well mineralized aplite and altered granite	41	Nil	.005	.06	AX
115-120	Mica schist	100	"	Tr	.03	"
120-125	120-123, mica schist. 123-124, aplite. 124-125, mica schist	82	"	.005	.04	"
125-130	Mica schist	100	"	Tr	.05	"
130-135	130-131, mica schist. 131-133½ aplite with specks of pyrite. 133½-135, mica schist	83	"	.005	.06	"
135-140	135-138, mica schist. 138-140 altered aplite	96	"	Tr	.06	"
140-145	140-142 very slightly altered granite. 142-144, aplite, 144-145 mica schist	84	"	Tr	.08	"
145-150	Mica schist. aplite at 148, gouge at 150	50	"	.005	.08	"
150-155	150-151 slightly altered granite. 151-152 mica schist. 152-155 aplite and altered granite, strongly mineralized	72	"	.025	.29	"
155-160	Mineralized aplite, some altered granite	88	"	.010	.12	"
160-165	Slightly altered (160) granite and aplite	86	"	Tr	.04	"
165-170	Mainly aplite, some altered granite, somewhat mineralized	65	"	.005	.03	"
170-175	Mainly aplite, some altered granite, somewhat mineralized	66	"	.005	.05	"
175-180	Brecciated aplite, slightly mineralized. some fresh granite	34	"	Tr	.04	"
180-185	180-182, mica schist. 182-184 aplite. 184-185 mica schist	35	"	.005	.04	"
185-190	Mica schist	30	"	Tr	.11	"
190-195	Aplite	20	"	.005	.06	"
195-200	195-196½, essentially fresh granite; 196½-198½ mica schist; 198½-200, aplite with some fresh granite	100+	"	.005	.06	"
200-205	Mainly fresh granite, some areas of alteration. abundant pyrite specks at 205	84	"	.010	.07	"
205-210	205-208, sericitized breccia. 208-210, mica schist	36	"	.005	.07	"
210-215	210-213, mica schist. 213-215 altered granite with abundant pyrite specks	32	"	Tr	.05	"
215-220	215-217, altered mica schist. 217-220 mica schist	60	"	.005	.10	"
220-225	Mica schist	55	"	.030	.12	"
225-230	225-227, mica schist. 227-230 aplite	52	"	.010	.08	"
230-235	230-232, mica schist. 232-234½, aplite. 234½-235 mica schist	75	"	.010	.08	"
235-240	235-236½, mica schist. 236½-239 aplite. 239-240 mica schist	100	"	.010	.05	"

Footage	Mineralogy	% Recovery	% SiO_2	Oz. Au	$ 50	Size Core
240-245	Mica schist	38	511	.035	.07	AX
245-250	" "	100	"	.015	.05	"
250-255	" "	84	"	.010	.06	"
255-260	" "	65	"	.005	.05	"
260-265	Fresh Granite	60	"	.005	.09	"
265-270	265-267½, fresh granite; 267½-268½, aplite; 268½-270, granite, some alteration	92	"	.010	.09	"
270-275	Fresh granite; gneissoid	23	"	.005	.10	"
275-280	" " "	100	"	.005	.05	"
280-285	" " "	80	"	.005	.14	"
285-290	" " "	65	"	.005	.11	"
290-295	" " "	70	"	.020	.16	"
295-300	295-296, fresh gneissoid granite; 296-297 altered and mineralized granite; 297-300, fresh granite	92	"	.020	.17	"
300-305	Fresh granite; gneissoid	78	"	.005	.11	"
305-310	Altered and brecciated granite and aplite; mineralized with Sb and pyrite	70	"	.020	.06	"
310-315	Altered, mineralized granite, some aplite	100+	"	.030	.12	"
315-320	Completely altered granite and aplite, well mineralized with sulfides	74	"	.040	.11	"
320-325	Completely altered granite and aplite, well mineralized with sulfides	100	"	.035	.08	"
325-330	Completely altered granite and aplite, well mineralized with sulfides	100	"	.040	.10	"
330-335	Completely altered granite and aplite, well mineralized with sulfides	78	"	.025	.06	"
335-340	Completely altered granite and aplite, well mineralized with sulfides	94	"	.030	.17	"
340-345	Completely altered granite and aplite, well mineralized with sulfides	90	"	.030	.14	"
345-350	Altered granite, some sulfide mineralization. Black gouge at 346	50	"	.010 ~~.030~~	.04 ~~.14~~	"
350-355	Altered granite, some fresh areas	60	"	.005	.04	"
355-360	355-357, fresh granite and aplite with pyrite specks; 357-358, gneissoid granite; 358-360, fresh granite	66	"	.005	.05	"
360-365	360-364, fresh granite; 364-365, aplite with streaks of Sb and specks of pyrite	68	"	.005	.06	"

Footage	Mineralogy	Recovery %	SO_3	SO_2, As	% Sb	Gold Core
365-370	365-367 aplite with streaks of sb and pyrite specks. 367-370, fresh granite (patch of aplite at 370)	92	Nil	.015	.08	Nil
370-375	Aplite and completely altered granite. Some brecciation and gouge	68	"	.005	.03	"
375-380	375-378 somewhat altered granite. 378-380, aplite	18	"	.010	.05	"
380-385	380-381½, aplite. 381½-385 slightly altered granite	42	"	.005	.06	"
385-390	Mainly fresh granite. Patch of aplite at 386.	20	"	.005	.03	"
390-395	Fresh granite, rich in ferromagnesian minerals	96	"	.005	.05	"
395-400	" " " " " "	100	"	.005	.06	"
400-405	" " " " " "	100	"	.010	.04	"
405-410	" " " " " "	76	"	Tr	.04	"
	Aplite 405-407					
410-415	Fresh granite, rich in ferromagnesian minerals. Aplite 412-414	100	"	.015	.05	"
415-420	Fresh granite, rich in ferromagnesian minerals to 416. Aplite and minor granite 416-420	75	"	.005	.05	"
420-425	Fresh granite and aplite	95	"	.010	.06	"
425-430	Fresh granite	95	"	.010	.04	"
430-435	Granite, 405 altered to 431, fresh gneissoid granite to 435.	98	"	.010	.03	"
435-440	Predominantly fresh gneissoid granite, some patches of alteration	100	"	.005	.05	
440-445	Altered gneissoid granite with streaks of Sb mineralization and specks of pyrite	90	"	.010	.08	"
445-450	Altered (slightly) gneissoid granite with patches of aplite	98	"	.010	.09	"
450-455	Fresh gneissoid granite	80	"	.010	.11	"
455-460	Fresh gneissoid granite, some patches of alteration	98	"	.005	.05	"
460-465	460-463, fresh gneissoid granite. 463-465' aplite	70	"	.010	.03	"
465-470	465-466' aplite. 466-470 gneissoid granite, altered 468-469	100	"	.005	.24	"
470-475	Fresh gneissoid granite	70	"	.010	.09	"
475-476	" "					

End of hole at 475 feet

Note: All assays are sludge assays. All values of SO_3 determined by lamping.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/12/53; finished 7/29/53

COORDINATES: 25,562.5 E
19,583.6 N

ELEVATION: 6,524.4

Yellow Pine Mine
Atlanta, Idaho

Diamond Drill Hole No. DD - 2

BEARING: N 52° 34' W

INCLINATION: minus 18°

Page 1

Footage	Mineralogy	% Recovery	% Mo	Oz. Au	% Sb	Size Core
0 - 5	aplite	100				NX
5 - 10	5-7, aplite; 7-10 fresh granite	100	Nil	Tr	0.02	NX from 4
10 - 15	Fresh granite	96	"	"	0.01	NX
15 - 20	" "	100	"	.005	0.01	"
20 - 25	20-23 aplite; 23-25 fresh granite	100	Tr	Tr	0.01	"
25 - 30	25-27 fresh granite; 27-30 aplite, iron oxide stained	74	Tr	Tr	Tr	"
30 - 35	30-32 aplite; stained with iron oxide. 32-33 fresh granite; 33-35 aplite, iron stained	48	Nil	Tr	0.02	"
35 - 40	Iron stained aplite	60	"	Tr	0.02	"
40 - 45	40-42, aplite, iron stained. 42-45, fresh granite	60	"	Tr	0.02	"
45-50	45-47, fresh granite; 47-50, aplite	96	"	Tr	0.01	"
50 - 55	Aplite, limonite in cracks	63	"	Tr	0.02	"
55 - 60	" " " "	70	"	"	0.02	"
60 - 65	Mainly aplite, fresh granite at 63 ft.	94	"	"	0.02	"
65 - 70	" " , stained with iron oxides	94	"	"	0.02	"
70 - 75	Fresh granite, minor aplite	72	"	"	0.04	"
75 - 80	75-77, very slightly altered granite; 77-78½, aplite; 78½-80, fresh granite	86	"	"	0.04	"
80 - 85	Fresh granite	86	"	"	0.04	"
85 - 90	85-86, iron stained aplite; 86-90, fresh granite	70	"	"	0.01	"
90 - 95	Aplite, brecciated at 91	70	"	"	0.03	"
95 -100	95-96½-aplite; 96½-97½, brecciated aplite, white color; 97½-100, aplite	100	"	"	0.02	"
100-105	Brecciated aplite	72	"	"	0.03	"
105-110	105-107, aplite; 107-110, very slightly altered granite	60	"	"	0.03	"
110-115	Very slightly altered and fractured granite	18	"	"	0.03	"
115-120	115-116, aplite; 116-119, very slightly altered granite; 119-120, aplite	90	"	"	0.05	"
120-125	120-122 breccia and gouge; 122-124½, lamprophyre dike	66	"	"	0.03	"
125-130	Altered granite and aplite (50% altered)	70	"	"	0.01	"
130-135	Somewhat altered (25%) aplite and granite	55	"	"	0.01	"
135-140	" " " " " "	40	"	"	0.01	"
140-145	Aplite	28	"	"	Tr	"

Footage	Mineralogy	% Recovery	% Cu	Oz. Au	% Pb	Size Core
145-150	Aplite	18	nil	Tr	Tr	AX
150-155	Fault breccia and gouge, light gray color	5	"	"	"	"
155-160	" " " " " " "	15	"	"	0.01	"
160-165	" " " " " " " to 164'; aplite, 164-165'	18	"	"	0.03	"
165-170	Aplite and slightly altered granite	12	"	"	0.03	"
170-175	Fresh granite	23	"	"	0.03	"
175-180	Granite and aplite, some alteration and brecciation	10	"	"	0.03	"
180-185	" " " " " " "	8	"	"	0.03	"
185-190	Slightly altered granite	14	"	"	0.03	"
190-195	" " "	7	"	"	0.03	"
195-200	" " "	2	"	"	0.02	"
200-205	No core recovery	0	"	Tr	0.02	"
205-210	Lamprophyre dike, gouge at 205-207	68	"	"	0.02	"
210-215	" "	60	"	"	0.02	"
215-220	215-217 lamprophyre dike; 217-220, fresh granite	28	"	"	0.02	"
220-225	Fresh granite	46	"	"	0.02	"
225-230	" " and some aplite	98	"	"	0.02	"
230-235	" "	54	"			"
235-240	" "	62	"	"	0.05	"
240-245	" "	100	"	—	—	"
245-250	" "	58	"			"
250-255	Somewhat altered granite (25% alt.). Silicification and fine grained sulfides at 252'	52	"	"	0.04	"
255-260	Somewhat altered granite (25% alt.)	100	"	—	—	"
260-265	Fresh fine-grained granite and aplite	60	"			"
265-270	Fresh granite, some aplite	74	"	"	0.04	"
270-275	270-273, fresh granite; 273-275, altered (30%) granite	100	"	—	—	"
275-280	Altered granite (30% alt.)	30	"			"
280-285	Fresh granite, minor patches of alteration	12	"	"	0.02	"
285-290	" " " " " "	30	"	—	—	"
290-295	" " " " " "	88	"	"	Tr	"
295-300	Aplite, minor granite. Some alteration	76	"	"	0.04	"
305-310	Fresh granite	10	"			AX
300-305	Aplite, minor granite. Some alteration. Fresh granite 304-305	10	"	"	0.01	"
310-315	Fresh granite	20	"	—	—	"

Hole No. K-2

Footage	Mineralogy	Recovery	%	Oz. Au	% Au	Size Core
315-320	Fresh Granite	20	All			2½
320-325	Aplite and fine-grained fresh granite	48	"	Tr	0.02	"
325-330	Fresh granite. Core 327-330	10	"			"
330-335	Fresh granite, some aplite	17	"	—	—	"
335-340	" " " "	25	"	"	0.05	"
340-345	" " " " altered granite with fine-grained sulfides at 343'	36	"	"		"
345-350	Altered granite (75% alt.)	6	"	—	—	"
350-355	Aplite and altered granite to 354', fresh granite 354-355'			"	0.04	
355-360	Fresh granite	30	"			"
360-365	" "	54	"			"
365-370	Fine grain granite - fresh	58	"	—	—	"
370-375	" " "	13	"	"	0.02	"
375-380	" " "	50	"	—	—	"
380-385	Fresh granite	44	"	"	0.04	"
385-390	" "	73	"			"
390-395	" " , fine grained	30	"	"	0.04	"
395-400	Fine grained granite and aplite	70	"			"
400-405	Fresh granite	15	"	"	0.01	"
405-410	" "	24	"			"
410-415	" "	88	"	—	—	"
415-420	" "	76	"	"	0.04	"
420-425	" "	70	"			"
425-430	" "	50	"	—	—	"
430-435	" "	60	"	.005	0.03	"
435-440	" "	56	"			"
440-445	" "	40	"	—	—	"
445-450	" "	32	"	Tr	0.05	"
450-455	" "	52	"			"
455-460	" "	46	"	—	—	"
460-465	" "	35	"			"
465-470	" "	30	"	Tr	0.03	"
470-475	" "	28	"			"
	End of hole at 475 feet	9	"			"

Note: All assays are sludge assays. Trace and all values of Au_2 determined by lumping. All core and sludges larger.

Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 7/30/53 - Finished 8/20/53.

RECEIVED
JAN 3 1 1956

COORDINATES: 19,952.1 N
20,419.4 E

ELEVATION: 6,546.5

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. NO-55

BEARING: S 47° 22' E

INCLINATION: Minus 50°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -100	Overburden. Fresh granite boulders and gravel. Iron stained along fractures		TR			
100-105	Bedrock at 100 ft. Fresh granite. Iron stained along fractures.	48	Nil			BX
105-110	Fresh granite. Iron stained along fractures	70	"	.005	.05	"
110-115	" " " " " "	60	"			"
115-120	" " " " " "	66	"			"
120-125	" " " " " "					
	Aplite 123-124'	28	"			"
125-130	Fresh granite. " " " "	60	"			"
130-135	" " " " " "	45	Tr	.005	.03	"
135-140	" " " " " "	55	Nil			"
140-145	" " " " " "	55	"			"
145-150	Altered granite & aplite, fine grained sulfides in fractures 145 to 147'. Fresh granite 147 to 150'	40	"			"
150-155	Fresh granite. Iron stained along fractures	45	Tr	.005	.03	"
155-160	Fresh granite to 156'. Aplite 156 to 160'. Iron stained along fractures	45	Nil			"
160-165	Fresh granite. Iron stained along fractures	80	Tr	.005	.06	"
165-170	" " " " " "	90	Tr	Tr	.06	"
170-175	" " " " " "	100	Nil	.005	.04	"
175-180	Fresh granite to 178'. Completely altered granite with sulfide smears in fractures 178 to 180'	75	"	.005	.07	"
180-185	Completely altered aplite and granite with fine grained sulfides	10	"	.045	.06	"
185-190	Completely altered granite with fine grained sulfides	90	"	.045	.14	"
190-195	" " " " " " "	25	"	.030	.07	"
195-200	" " " " " " "	30	"	.010	.06	"
200-205	Fresh granite	50	"			"
205-210	" "	85	"			"
210-215	" "	35	"	.005	.07	"

Footage	Mineralogy	% Recovery	% MoS_2	Oz. Au	% Sb	Size Core
215-220	Fresh granite	5	Nil			BX
220-225	Aplite and granite. Very slightly altered	60	"			"
225-230	Fresh granite. Aplite with fine grained sulfides 226 to 227'	50	"			"
230-235	Fresh granite.	65	"			"
235-240	" "	55	"	.010	.05	"
240-245	Aplite. Very minor fine grained sulfides	40	"			"
245-250	Fresh granite to 247'. Partially altered (60% alt.) granite with fine grained sulfides 247 to 250'	55	"			"
250-255	Altered granite with fine grained sulfides	5	"			"
255-260	Partially altered granite (50% alt.) to 257'. Fresh granite 257 to 260'	50	"	.030	.14	"
260-265	Altered granite with fine grained sulfides	35	"			"
265-270	Granite: fresh 265-266'; altered 266-267'; fresh 267-270'	95	"			"
270-275	Fresh granite to 273'. Altered granite with fine grained sulfides 273-275'	60	"			"
275-280	Altered granite with fine grained sulfides. Brecciated 278 to 280'	90	"			"
280-285	Aplite with fine grained sulfides to 284'. Fresh granite 284 to 285'	60	"			"
285-290	Fresh granite	55	"	.030	.06	"
290-295	Fresh granite to 292'. Altered granite with fine grained sulfides 292-293'. Fresh granite 293 to 295'	95	"			"
295-300	Mixed fresh and altered granite and aplite	90	"			AX from 297'
300-305	Fresh granite to 302'. Altered granite with fine grained sulfides 302 to 305'	85	"	.010	.06	AX
305-310	Completely altered granite with fine grained sulfides	70	"	.030	.13	"
310-315	" " " " " " "	55	"	.030	.12	"
315-320	" " " " " " "	70	"	.115	.17	"
320-325	" " " " " " "	80	"	.135	.06	"
325-330	" " " " " " "	70	"	.050	.12	"
330-335	" " " " " " "					
	Fresh granite 332-333'	40	"	.040	.05	"
335-340	Completely altered granite with fine grained sulfides. Brecciated, soft	20	"	.035	.08	"

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
340-345	Completely altered granite with fine grained sulfides. Brecciated, soft	5	Nil	.015	.16	AX
345-350	Mineralized aplite	10	"	.015	.12	"
350-355	Altered granite with fine grained sulfides. Patches of fresh granite	25	Tr	.030	.04	"
355-360	No core recovery	0	Nil	.040	.07	"
360-365	Aplite	20	"	.040	.07	"
365-370	Essentially fresh granite. Aplite 369-370'	95	"	.020	.06	"
370-375	Aplite. Patches of fresh granite	65	Tr	.015	.05	"
37[illegible]-380	Granite, essentially fresh	55	Nil			"
380-385	" " "	65	"			"
385-390	" " "	35	"	.005	.04	"
390-395	Fresh granite to 393'. Aplite 393 to 395'	15	"			"
395-400	Aplite. Patches of partially altered (30% alt.) granite	70	.04			"
400-405	Essentially fresh granite. Patches of alteration	90	Tr			"
405-410	Fresh granite	95	Tr			"
410-415	" "	100	Nil	.010	.05	"
415-420	" "	45	"			"
420-425	Aplite and fresh granite	20	"			"
425-430	Fresh granite	40	"			"
430-435	Partially altered granite (60% alt.)	90	"			"
435-440	Fresh granite with minor patches of alteration	90	"	.015	.04	"
440-445	Fresh granite, somewhat (30%) altered from 443-445'	90	"			"
4[illegible]-450	Fresh granite	90	"			"
450-455	Aplite	80	"			"
455-460	Aplite with some small patches of fresh granite	95	"			"
460-465	Aplite to 462', altered granite 462-463', fresh granite 463-465'	85	"	.010	.07	"
465-470	Fresh granite; minor patches of alteration	85	"			"
470-475	Very slightly altered granite to 472. Aplite 472-475'	80	"			"
475-480	Aplite to 476'. Fresh granite 476 to 480'	75	"			"
480-485	Fresh granite	60	"			"
485-490	Fresh granite to 489'. Aplite 489-490'	60	"	Tr	.05	"
490-495	Aplite to 491'. Fresh granite 491-495'	100	"			"
495-500	Fresh granite	55	"			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
500-505	Completely altered granite with fine grained sulfides to 594'. Fresh granite 594-595'	90	Nil			AX
505-510	Altered granite (70% alt.) to 507'. Fresh gr. 507-510'	80	"			"
510-515	Fresh granite	70	"	.015	.06	"
515-520	Fresh granite to 516½. Altered granite 516½-520'	45	"			"
520-525	Fresh granite and aplite	35	"			"
525-530	Granite: fresh to 527'; altered 527-529'; fresh 529-530'	90	"			"
53[illegible]-535	Altered granite to 531'. Aplite with scattered sulfides 531-535'	90	"			"
535-540	Aplite	45	"	.040	.06	"
540-545	Aplite to 542'; altered granite 542-543'; fresh granite and aplite 543-545'	80	"			"
545-550	Aplite with scattered sulfides	25	"			"
550-555	Completely altered granite to 551'. Fresh granite and aplite 551-555'	25	"			"
555-560	Aplite	55	"			"
560-565	Aplite to 563. Altered granite with fine grained sulfides 563-565'	35	"	.010	.06	"
565-570	Altered granite with fine grained sulfides to 566'. Fresh granite 566-570'	55	"			"
570-575	Fresh granite. Aplite 572-573'	75	"			"
57[illegible]-580	Fresh granite.	65	"			"
58[illegible]-585	Fresh Granite; scattered patches of alteration	90	"			"
585-590	Fresh granite and aplite to 589'; altered aplite 589-590'	40	"	.015	.07	"
590-595	Altered aplite to 592'. Completely altered granite 592-595'	85	"			"
595-600	Completely altered granite	40	"			"
600-605	" " "	70	"			"
605-610	" " " to 608'. Fresh granite 608 to 610'	35	"			"
610-615	Fresh granite	20	"	.050	.08	"
615-620	" "	20	"			"
620-625	Partially altered granite (60% alt.) to 623'. Fresh granite 623 to 625'	35	"			"

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
625-630	Fresh granite, some aplite	40	Nil			AX
630-635	Completely altered granite	25	"			"
635-640	Fresh granite to 638'. Aplite 638-639'. Altered granite (70% alt.) 639-640'	75	"	.045	Tr	"
640-645	Hard aplite	60	"			"
645-650	Fresh granite	65	Tr			BX
650-655	" "	50	Nil			"
655-660	" "	100	"			"
660-665	" "	50	"	.005	.04	"
665-670	" "	100	"			"
670-675	" "	45	"			"
675-680	" "	90	"			"
680-685	" "	85	"			"
685-690	" " to 687'. Hard, fresh aplite 687-690'	100	"	.005	.04	"
690-695	" " to 692'. " " " 692-695'	95	"			"
695-700	" "	25	"			"
700-705	Hard, fresh aplite to 702'. Fresh granite 702-705'	100	"			"
705-710	Fresh granite and aplite. 2" altered granite with fine grained sulfides at 707'	90	"			"
710-715	Hard, fresh aplite; some fresh granite	95	"	.005	.03	"
715-720	Hard aplite; minor alteration	75	"			"
720-725	Fresh granite. Aplite 724-725'	40	"			"
725-730	Fresh granite	100	"			"
730-735	" " 6" altered granite with fine grained sulfides at 735'	95	"			"
735-740	Fresh granite	95	"	.005	.03	"
740-745	Aplite to 742'. Fresh granite 742-745'	95	"			"
745-749	Mixed aplite and fresh granite	95	"			"

End of hole at 749 feet.

Note: All assays are sludge assays. Trace and nil values of SO_3 determined by lamping; numerical values determined by assay. All core and sludges lamped.

Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 8/22/53. Finished: 9/19/53.

COORDINATES: _____

_____

ELEVATION: _____

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-56

BEARING: S 47° E

INCLINATION: Minus 50°

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -121	Overburden. Fresh granite boulders, gravel & sand	-	Nil			
121-125	Fresh granite, iron stained along fractures	5	No sludge sample			BX
125-130	" " " " " "	20	Nil	Tr	.04	"
130-135	" " " " " "	30	"	"	.07	"
135-140	Aplite, some fresh granite. Iron stained along fract.	30	No sludge sample			"
140-145	Aplite, iron stained along fractures	20	No sludge sample			"
145-150	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	20	Nil	.015	.05	"
150-155	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	50	"	.030	.12	"
155-160	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	100	"	.030	.06	"
160-165	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	"	.030	.02	"
165-170	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	80	"	.095	.03	"
170-175	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	"	.060	.04	"
175-180	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	No sludge sample			"
180-185	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	Nil	.030	.03	"
185-190	Aplite, small seams of fine-grained sulfides	95	"	Tr	.02	"
190-195	" " " " " " "	60	Tr	.025	.02	"
195-200	" " " " " " "	55	Tr	.025	.03	"
200-205	" " " " " " "	25	Nil			"
205-210	Partially altered granite (70% alt.)	15	Tr			"
210-215	Completely altered granite. Fine-grained sulfides	30	Tr	.060	.09	"
215-220	Completely altered granite, some aplite. Fine grained sulfides	70	Nil			"
220-225	Completely altered with fine grained sulfides to 222'. Fresh granite 222-225'	80	Nil			"

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
225-230	Essentially fresh granite (10% alt.)	55	Nil			BX
230-235	Fresh granite to 232'. Altered (80% alt.) granite with fine grained sulfides 232-235'	40	"			"
235-240	Altered granite (70% alt.)	30	"	.015	.05	"
240-245	Partially altered granite (40% alt.) Small sulfide seams at 242'	45	"			"
245-250	Partially altered aplite and granite (40% alt.) Some sulfide smears	75	Tr			"
250-255	Essentially fresh granite (10-15% alt.) Fine grained sulfides at 252'	60	Nil			"
255-260	Essentially fresh granite (10% alt.)	50	"			"
260-265	Fresh granite to 262', aplite 262 to 265'	75	"	.010	.04	"
265-270	Fresh granite, minor patches of alteration	50	"			"
270-275	Fresh granite	60	"			"
275-280	Aplite, some fresh granite to 278'. Altered granite with fine grained sulfides 278-280'	70	Tr			"
280-285	Altered granite with fine grained sulfides to 283'. Fresh granite 283-285'	50	Nil			AX from AX 283'
285-290	Fresh granite, patches of aplite	35	"	.015	.04	
290-295	Fresh granite to 292'. Altered granite (70% alt.) with fine grained sulfides 292-295'	25	Tr			"
295-300	Essentially fresh granite with patches of alteration	65	Nil			"
300-305	" " " " " " "	70	Nil			"
305-310	Altered granite (65% alt.) Some fine grained sulfides	50	"			"
310-315	" " " " " " " "	30	Tr	.015	.05	"
315-320	" " " " " " " "	35	Nil			"
320-325	Fresh granite	35	"			"
325-330	Fresh granite. Aplite 329-330'	50	Nil			"
330-335	Aplite; minor fresh granite	55	"			"
335-340	Aplite to 339'; altered granite with fine grained sulfides 339-340'	25	"	.015	.02	"
340-345	Altered granite (80% alt.) with patches of fresh gr.	70	"			"
345-350	Fresh granite	5	"			

Footage	Mineralogy	Recovery	WO3	Oz. Au	% Sb	Size Core
350-355	Slightly altered granite (15% alt.)	35	Nil			AX
355-360	Fresh granite to 356'; completely altered granite with fine grained sulfides 356-360	80	"			"
360-365	Altered granite to 361'; fresh granite 361-365'	10	"	.010	.02	"
365-370	Fresh granite	30	"			"
370-375	Granite; fresh 370-372'; altered 372-374'; fresh 374-375'	45	"			"
375-380	Fresh granite	50	Nil			"
380-385	" "	35	"			"
385-390	Granite, some minor alteration to 387'. Aplite 387-390'	20	"	.015	.02	"
390-395	Aplite and partially altered granite to 392'. Fresh granite 392-395'	60	"			"
395-400	Fresh granite	35	"			"
400-405	Altered granite (75% alt.) with fine grained sulfides	40	"			"
405-410	Altered granite to 406'; aplite 406-410'	45	"			"
410-415	Aplite with fine grained sulfides to 412'; fresh granite 412-413'; aplite 413-415'	60	"	.025	.05	"
415-420	Essentially fresh granite (10% alt.)	40	"			"
420-425	" " " Minor alteration	65	"			"
425-430	" " " " " to 427'; Aplite 427-30'	35	"			"
430-435	Aplite to 431'; altered granite with fine grained sulfides 431-432'; fresh granite 432-435'	50	"			"
435-440	Fresh granite with patches of alteration. Some aplite	35	.02	.060	.04	"
440-445	Fresh granite; patches of alteration 440-442'	60	Nil			"
445-450	Fresh granite	95	"			"
450-455	Fresh granite, some aplite	60	Nil			"
455-460	Fresh granite to 456'; aplite with patches of fresh granite 456-460'	95	"			"
460-465	Fresh granite; minor aplite	65	"	.020	.03	"
465-470	" "	80	"			"
470-475	" " to 472'. Altered aplite with fine grained sulfides 472-475'	95	"			"

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Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
475-480	Fresh granite, altered at 476'	90	Nil			AX
480-485	" " aplite 484-- 485'	90	"			"
485-490	Aplite, some fine grained sulfides	95	"	.010	Tr	"
490-495	Fresh granite	95	"			"
495-500	" "	95	"			"
500-505	Aplite to 503'; fresh granite 503-505'	100	"			"
5-510	Fresh granite to 508'; altered granite (70% alt.) with fine grained sulfides 508-510'	100	"			"
510-515	Essentially fresh granite, minor alteration. Some aplite	100	"	.025	.04	"
515-520	Essentially fresh granite, minor alteration. Aplite with fine grained sulfides 518-520'	95	"			"
520-525	Aplite, few fine grained sulfides 520-523'. Fresh granite 523-525'	100	"			"
525-530	Fresh granite to 527'; aplite with fine grained sulfides 527-530'	95	"			"
530-535	Aplite to 532'; fresh granite 532-535'	95	"			"
535-540	Fresh granite to 538'; partially altered granite (50% alt.) to 540'	100	"	.020	.04	"
540-545	Aplite to 541'; fresh granite 541-545'	95	"			"
545-550	Fresh granite	90	"			"
0-555	" "	95	"			"
555-560	" "	95	"			"
560-565	Fresh granite to 562'; aplite with fine grained sulfides 562-565'	95	"	.010	.02	"
565-570	Fresh granite to 567'; altered granite (75% alt.) with fine grained sulfides 567-570'	85	"			"
570-575	Fresh granite to 571'; aplite with fine grained sulfides 571-575'	95	"			"
575-580	Fresh granite	80	"			"
580-585	" "	80	"			"
585-590	" "	100	"	.040	.33	"
590-595	" "	100	"			"
595-600	" "	55	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
600-605	Granite, fresh except altered 601-602 & 603-604'	95	Tr			AX
605-610	Fresh granite	60	Nil			"
610-615	" " , patches of alteration	90	Tr	.005	.07	"
615-620	Aplite	95	Nil			"
620-625	Aplite to 622'; fresh granite 622-625'	95	"			"
625-630	Fresh granite to 628'. Aplite 628-630'	90	Nil			"
630-635	Aplite to 631'; altered granite with fine grained sulfides to 632'; aplite to 635'	90	"			"
635-640	Aplite to 636'; fresh granite 636-640'	80	"	.005	.02	"
640-645	Aplite	60	"			"
645-650	Aplite to 649'; fresh granite 649-650'	85	Tr			"
650-655	Fresh granite	90	Nil			"
655-660	Aplite to 658'; fresh granite 658-660'	70	.04			"
660-665	Partially altered granite (60% alt.) to 661'; essentially fresh granite 661-665'	60	Tr	.005	.01	"
665-670	Fresh granite, patches of alteration	40	Nil			"
670-675	Mainly aplite, some fresh granite	70	Tr			"
675-680	Fresh granite	80	Tr			"
680-685	" "	35	Nil			"
685-690	" "	70	"	Tr	.03	"
690-695	" "	40	"			"
695-700	Fresh granite to 696'; aplite 696-700'	55	"			"
700-705	Fresh granite	35	"			"
705-710	Fresh granite to 706'; aplite 706-707'; fresh granite 707-710'	50	"			"
710-715	Fresh granite to 712'; aplite 712-715'	70	"	.005	.03	"
715-720	" "	75	"			"
720-725	" "	80	Tr			"
725-730	Fresh granite, some aplite	90	Nil			"
730-735	" "	50	"			"
735-740	Granite: fresh to 736; altered 736-738'; aplite 738-740'	60	"	Tr	.03	"
740-745	Fresh granite. Patch of altered granite at 743'	50	"			"
745-748	" "	50	"			"
	End of hole at 748 feet					

NOTE: All assays are sludge assays. Trace and Nil values of WO3 determined by lamping. Numerical values determined by assay. All core and sludges lamped. Hole drilled by Nichols and Thompson Core Drilling Co. Date started: 9/22/53; finished 10/28/1953

COORDINATES: 19,169.3 N
21,029.2 E

ELEVATION: 6,548.0

[illegible] FUND MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MD-57

BEARING: N 47° W

INCLINATION: Minus 47½°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -278	Overburden. Fresh granite boulders, gravel & sand		Nil			
278-290	Fresh granite. Weathered (iron-stained) along fractures	50	No sludge			BX
290-315	" " " " " " "	55	Nil	.015	.01	"
315-335	Fresh granite to 318. Aplite 318 to 335. Weathered along fractures.	85	Nil	.015	.05	AX at 323
335-340	Fresh aplite. Weathered along fractures	70	No sludge			AX
340-365	Fresh granite. Patches of aplite	80	Nil	.010	.08	"
365-395	" "	90	Tr	.035	.03	"
395-420	" " Few patches of aplite	75	Nil	.005	.01	"
420-429	" "	65	Nil	.005	.02	"
429-433	" "	70	Nil	Tr	.02	"
433-437	" " Aplite with small stringers fine-grained sulfides 434 to 435'	55	Nil	Tr	.01	"
437-440	Completely altered granite and aplite. Few fine-grained sulfides	65	Nil	.005	.06	"
440-445	Completely altered granite to 441'; fresh granite to 442'; brecciated and altered granite, some aplite, 442 to 445'	70	Nil	.055	.06	"
445-450	Brecciated, altered granite and gouge to 447'; partially altered to 449'; fresh granite 449 to 450'	75	Nil	.020	.04	"
450-470	Fresh granite. Patch of alteration at 453'	95	No sludge			"
470-475	Essentially fresh granite and aplite	95	Nil	.015	.01	"
475-483	Fresh granite, some aplite	55	No sludge			"
483-487	Fresh granite	30	Nil	.015	.02	"
487-492	" "	80	Nil	.025	.05	"
492-505	" " minor aplite	85	No sludge			"
505-510	Hard, fresh aplite	70	Nil	.015	.02	"
510-520	Fresh granite to 512'; fresh aplite to 514'; fresh granite to 515'; fresh aplite to 518'; fresh granite to 520'	75	No sludge			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Site Core
520-525	Mixed fresh granite and aplite	45	Nil	.020	.06	4%
525-530	Fresh granite to 527'; fresh aplite to 528'; fresh granite to 530'	75	No sludge			"
530-537	Fresh granite; some aplite. Minor alteration at 536'	85	Nil	.015	.02	"
537-542	Fresh granite	70	Nil	.035	.02	"
542-547	Fresh granite to 544'. Aplite to 547'. Minor alteration at 544'	90	Nil	.020	.04	"
547-552	Fresh aplite to 551'. Fresh granite to 552'	55	Nil	.020	.02	"
552-557	Fresh granite	95	Nil	.030	.01	"
557-565	Fresh granite. Partially altered 564 to 565'	60	No sludge			"
565-570	Mainly fresh aplite; some fresh granite	30	Nil	.015	.01	"
570-580	Fresh aplite to 572'; partially altered aplite 572 to 580'	35	No sludge			"
580-585	Mainly fresh aplite	20	Nil	.020	.01	"
585-590	Fresh granite	30	Nil	.005	.02	"
590-595	" "	35	Nil	.010	.01	"
595-600	" "	40	Nil	.005	.01	"
600-605	Fresh aplite; some fresh granite	25	Nil	Tr	.01	"
605-609	Fresh granite	70	Nil	.015	Nil	"
609-615	" " Patch of alteration at 611'	70	Nil	.020	Nil	"
615-621	Fresh aplite to 616'. Fresh granite 616 to 621'	85	Tr	.010	Nil	"
621-627	Fresh granite to 626; fresh aplite 626 to 627'	80	Nil	.010	Nil	"
627-650	Fresh granite. Small patches of aplite	85	Nil	.015	Nil	"
650-675	" " " " " " . Minor patch of alteration at 672'	70	Nil	.015	Nil	"
675-703	Mixed fresh granite and aplite to 684'. Partially altered aplite 684 to 693'. Completely altered granite, some gouge 693 to 696'. Mainly fresh granite (very minor alteration) 696 to 703'	50	Nil	.010	.03	"

End of hole at 703 feet

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 8/9/54; finished: 9/25/54.

COORDINATES: 23,396 N
22,607 E

ELEVATION: 6,445

YELLOW PINE MINE
Silverton, Idaho

DIAMOND DRILL HOLE NO. DC-58

BEARING: S 73° E

INCLINATION: Minus 20°

Page 1

Footage	Mineralogy	% Recovery	% Cu	% Au	% Sb	Size Core
0 - 20	Overburden. Fresh granite and quartzite boulders, gravel and sand	Nil				
20 - 30	Bedrock at 27 feet. Quartzite with minor pyrite and stibnite 27-33'	"	.005	.02		
30 - 35	Quartzite	90	"	.015	.02	nf
35 - 40	Quartzite and aplite with minor fine-grained sulfides	75	"	.025	.02	"
40 - 45	Aplite to 41', quartzite 41 to 45'	90	"	Tr	.01	"
45 - 50	Quartzite	85	"	.005	Nil	"
50 - 65	"	90	"	Tr	"	Sx at 62'
65 - 80	"	85	"	Tr	.01	Sx
80 - 95	"	90	"	Tr	.02	"
95 - 110	"	90	"	Tr	.01	"
110-125	"	95	"	Tr	.01	"
125-140	"	95	"	Tr	.01	"
140-155	"	95	"	Tr	Nil	"
155-170	Quartzite to 158'; aplite 155 to 165'; mica schist 165 to 170'	80	"	.005	Nil	"
170-185	Aplite to 172'. Quartzite 172-185'	80	"	.005	.01	"
185-200	Quartzite	80	"	.005	.01	"
200-215	"	85	"	Tr	.01	"
215-230	Quartzite to 219; aplite 219-224; quartzite 224-227; aplite 227-230'	25	"	Tr	.02	"
230-235	Quartzite	55	"	Tr	.04	"
235-240	"	50	"	.005	.02	"
240-245	"	30	"	.010	.04	"
245-260	Quartzite to 253'; fresh granite 253-260'	65	"	.010	.01	"
260-275	Fresh granite to 271'; quartzite to 275'	80	"	.010	Nil	"
275-290	Quartzite to 288'; aplite 288-290'	50	"	.015	.01	"
290-305	Quartzite	40	"	.015	.01	"
305-320	"	10	"	.015	Nil	Sx at 309'

Footage	Lithology	Recovery	Cu	Mo	Pb	Size Core
320-335	quartzite	25	Nil	.010	Nil	25
335-350	"	30	"	.005	.01	"
350-365	Quartzite to 364; aplite 364-365'	30	"	.005	.01	"
365-380	Aplite	60	"	.010	.03	"
380-395	Aplite to 383. Quartzite 383-395. Coarse-grained pyrite at 383'.	40	"	.005	.04	"
395-410	Quartzite to 407'; aplite 407-410'	50	"	Tr	.02	"
410-425	Quartzite to 415'; aplite 415-425'	40	"	.015	.02	"
425-440	Quartzite	20	"	.010	.01	"
440-455	"	23	"	.010	.03	"
455-470	"	15	"	.010	.11	"
470-485	"	15	"	Tr	.06	"
485-490	"	20	"	.005	.02	"
	Bit and shell chewed off at 385 feet so hole was being reamed. All assayed to recover bit and shell were unsuccessful, so hole was deflected about 8° north at 340 feet.					
490-495	Quartzite	10	Not assayed			"
495-510	Quartzite to 498. Aplite 498-508'; quartzite 508-510'	55	"	"		"
510-525	Quartzite	60	"	"		"
525-540	"	15	"	"		"
540-555	"	20	"	"		"
555-570	"	10	"	"		"
570-585	"	10	"	"		"
585-590	"	15	"	"		"
590-505	Quartzite to 595. Diss sulphides 595-596'. Quartzite 596-505'	45	Nil	.005	.04	"
505-520	Quartzite to 509. Aplite 509 to 512'. Quartzite 517 to 520'	25	"	.005	Nil	"
520-535	Quartzite	95	"	.010	.04	"
535-550	"	60	"	.010	.03	"
550-565	Quartzite to 560'; diss sulphides 560-562'; quartzite 562-565'	60	"	.005	.02	"
565-580	Quartzite	65	"	.002	.07	"
580-595	"	60	"	.005	.07	"

Footage	Mineralogy	Recovery	%	Oz. Au	% Sb	Size Core
595-610	Mica schist	90	[illegible]	[illegible]	.07	[illegible]
610-625	" "	65	"	.009	.04	1 at 623'
625-640	" "	70	"	.033	.05	"
640-645	" "	50	"	.035	.11	"
645-650	" " , altered zone soft 645-650'	70	"	.110	.41	"
650-655	Mixed mica schist and altered granite. Fine-grained sulfides	15	"	.030	.15	"
655-660	Completely altered granite. Fine-grained sulfides	20	"	.035	.10	"
660-665	" "					
	Good stibnite at 661'	20	"	.040	.19	"
665-670	Completely altered granite. Fine-grained sulfides	10	"	.040	.40	"
670-675	" " "					
	Across fault zone - heavy rains - from 670 to 679'	5	"	.010	.05	"
675-680	Lo hole recovery	0	"	.008	.01	"
680-685	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.025	.70	"
685-690	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.020	.40	"
690-695	Completely altered granite. Fine-grained sulfides. Good sulfides 691-693'	60	"	.105	1.15	"
695-700	Completely altered granite. Fine-grained sulfides. Good stibnite	20	[illegible]	a lost.		"
700-705	Completely altered granite. Fine-grained sulfides. Stibnite	95	"	.115	.40	"
705-710	Completely altered granite. Fine-grained sulfides. Stibnite	50	"	.120	.34	"
710-715	Mainly altered granite. Good patches fresh granite. Good stibnite at 713'	75	"	.110	.45	"
715-720	Mainly altered granite. Good patches fresh granite. Stibnite at 716'	65	"	.060	.20	"
720-725	Also altered and fresh granite	55	"	.035	.20	"
725-730	Mainly fresh granite. Patches of altered granite.	85	"	.025	.10	"
730-735	" " " " " "	15	[illegible]	a lost		
	End of hole at 735 feet.					

Notes: All assays are single assays. All values of WO3 determined by hand. All core was analyzed. Hole drilled by Pistole and Morrison Core Drilling Co. Date started: 9/27/54; finished: 10/6/54.

COORDINATES 23,361 N

22,484 E

ELEVATION 6,430

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. DC-59

BEARING: N 75° E

INCLINATION: Minus 50°

Page 1

Footage	Mineralogy	Recovery %	WO3 %	Oz. Au	% Sb	Size Core
0 - 65	Overburden; granite and quartzite boulders, gravel and sand to 24 feet, fresh granite to 65'. Overburden depth is uncertain -- may have been anywhere from 24 to 65'. Decomposed and fractured nature of rock makes bedrock location impossible to determine; best guess is between 60 and 65 feet.		Nil			NX
65 - 70	Completely altered granite. Some fine-grained sulfides	60	"	.020	.05	"
70 - 75	" " " " " " "	30	"	.025	.01	"
75 - 80	" " " " " " " to 78'; partially altered 78 to 80'	20	"	.030	.02	BX from 79'
80 - 85	Altered aplite	15	"	.010	.02	BX
85 - 90	" "	35	"	.005	Nil	"
90 - 95	" " to 94'; mica schist 94 to 95'	45	"	Tr	.03	"
95 -100	Mica schist to 98'; altered granite 98 to 100'	80	"	Tr	.04	"
100-105	Partially altered aplite	20	"	.005	.01	"
105-110	" " " to 109'; quartzite to 110'	10	"	Tr	.03	"
110-115	Altered aplite to 114'; quartzite to 115'	25	Tr	Tr	.01	"
115-120	Quartzite	85	Tr	.010	.02	"
120-135	"	70	Nil	Tr	.03	"

End of hole at 135 feet

Note: All assays are sludge assays. Trace and Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 10/20/54; finished: 11/2/54

COORDINATES 23,672 N
23,028 E
ELEVATION 6,570

VALLEY FIRST MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. SC-60

BEARING: N 77° E
INCLINATION: Minus 45°
Page 1

Footage	Mineralogy	% Recovery	% Sb	Ox. Au	% Sb	Size Core
0 - 25	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	Nil	Tr	.03	BX
25 - 50	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	"	Tr	.05	BX at 4'
50 - 75	Quartzite to 66'. Aplite 66 to 75'. Iron-stained along fractures	25	"	Tr	.05	BX
75 -100	Granite, partially altered. Iron-stained along fractures	35	"	Tr	.03	"
100-110	Altered granite, patches of fresh granite	40	"	.005	.40	"
110-115	Altered granite. Some fine-grained sulfides	20	Tr	.030	.13	"
115-120	Altered granite. Minor fine-grained sulfides	40	Tr	.015	.07	"
120-125	" " " " " "	10	Tr	.010	.05	"
125-130	" " " " " "	40	Nil	.015	.06	"
130-135	" " " " " " Patches of fresh granite	65	"	.010	.04	"
135-140	Altered granite. Minor fine-grained sulfides	90	"	.025	.06	"
140-145	" " " " " "	70	"	.005	.00	"
145-150	" " " " " "	55	"	.015	.15	"
150-155	" " " " " " Patches fresh granite	90	"	.010	.11	"
155-160	Altered granite. Minor fine-grained sulfides Patches fresh granite	85	"	.020	.11	"
160-185	Mixed altered and fresh granite	60	"	.015	.06	"
185-210	" " " " " to 197'. Quartzite 197 to 210'	45	"	.010	.06	"
210-235	Quartzite. Practically no core from 217 to 227'	35	"	.010	.13	"
235-260	" Stibnite at 243'	70	"	.020	.60	BX at 242'
260-285	"	95	"	.020	.10	BX
285-290	" Stibnite at 286'	60	"	.010	.27	"
290-295	"	50	"	.010	.10	"
295-300	"	80	"	.010	.04	"

Footage	Mineralogy	% Recovery	% HCl	Oz. Au	% Sb	Size Core
300-305	Quartzite to 302'. Black gouge 302-303'. Completely altered granite, fine-grained sulfides 303 to 305'	60	No sludge sample			AX
305-310	Completely altered granite, fine-grained sulfides, some stibnite	25	Nil	.040	.25	"
310-315	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.055	.57	"
315-320	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.085	.72	"
320-330	Completely altered granite, fine-grained sulfides. Good stibnite	90	"	.135	3.76	"
330-335	Completely altered granite, fine-grained sulfides. Fair stibnite	95	"	.105	.82	"
335-340	Completely altered granite, fine-grained sulfides. Minor stibnite	95	"	.135	.26	"
340-345	Completely altered granite, fine-grained sulfides	95	"	.025	.33	"
345-350	" " " " " "	95	"	.025	.23	"
350-355	" " " " " "	80	"	.035	.26	"
355-360	Mixed altered and fresh granite	95	"	.035	.27	"
360-365	Mainly altered granite; patches fresh granite	90	"	.075	.27	"
365-370	Altered granite	75	"	.065	.16	"
370-375	Altered granite and gouge to 372'. Essentially fresh granite to 375'	70	"	.035	.19	"
375-380	Fresh and partially altered granite	25	"	.020	.09	"
380-385	" " " " "	60	"	.020	.47	"
385-390	Altered granite. Stibnite at 385'	35	"	.030	.35	"
390-395	" "	80	"	.040	.27	"
395-400	Partially altered granite	60	"	.020	.26	"
400-405	Gouge to 401', altered granite with patches fresh granite to 405'	75	"	.005	.19	"
405-410	Altered granite and gouge to 406', partially altered granite to 410'	40	"	.035	.23	"
410-415	Mainly fresh granite, patches of alteration	65	"	.010	.13	"
415-420	Fresh and partially altered granite	80	"	.005	.03	"
420-425	" " " " "	95	"	.010	.08	"
425-430	" " " " "	95	"	Tr	.05	"

Footage	Mineralogy	Recovery %	MoS_2 %	Oz. Au	% Sb	Size Core
430-435	Fresh and partially altered granite	70	Nil	.005	.06	EX
435-440	" " " " "	70	"	.005	.05	"
440-445	" " " " "	80	"	Tr	.05	"
445-450	" " " " "	50	"	Tr	.05	"
450-455	" " " " "	80	"	.005	.04	"
455-460	" " " " "	75	"	Tr	.03	"
460-465	" " " " " to 463'. Altered granite with fine-grained sulfides to 465'	75	"	.005	.04	"
465-470	Completely altered granite with fine-grained sulfides	55	Tr	.203	.08	"
470-475	" " " " " " " to 473'; partially altered granite to 475'	40	Nil	.100	.35	"
475-480	Partially altered granite	50	"	.030	.10	"
480-485	Fresh and partially altered granite	90	"	.025	.16	"
485-488	" " " " "	85	"	.040	.15	"

End of hole at 488 feet

Note: All assays are sludge assays. Trace and Nil values of MoS_2 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 11/2/54; finished: 11/13/54.

COORDINATES 24,028 N

23,372 E

ELEVATION 6,000

Yellow Pine Mine
Silverton, Idaho

DIAMOND DRILL HOLE NO. AC-61

BEARING = 86° (W)

INCLINATION: Minus 47°

Page 1

Feet	Mineralogy	Recovery	Size Core
0 -174	Overburden. Sandy sand; some quartzite and granite boulders, and gravels.		
	Dip of hole at 174-210.		
	Hole was abandoned before reaching contact when it became apparent that it was flattening out appreciably--inclination at the bottom of the hole was probably about minus 20° to 30° instead of the original minus 47°.		
	Hole drilled by Diamond Core Drilling Co. Date started: 11/14/54; finished: 11/22/54.		

Coordinates: 83,719 S

83,611 S

Elevation: 6518

[illegible]
Silverton, Idaho

Diamond Drill, [illegible] Co., [illegible]-62

Bearing: N 75° E

Inclination: Dips [illegible]°

Page 1

Feetage	Lithology	Recovery %	Ag oz/ton	Cu %	Pb %	Zn %	Size Core
0 - 40	Fractured and decomposed quartzite. sand.	15	So clayey samples				BX BX at 20'
40 - 65	Fractured quartzite	30	[illegible]	.21		.11	"
65 - 90	Quartzite, except splite 73 to 77 ft.	15	"	.009		.01	"
90 -115	" " " 65 to 93 ft. & 104-106 ft.	25	"	.003		.01	"
115-140	" " " 135 to 137 ft.	40	"	.005		.03	"
140-165	"	25	"	.010		.02	"
165-190	Quartzite to 170 ft, muscovite schist 170 to 174 ft., quartzite 174 to 190 ft.	60	"	.005		.02	"
190-215	Quartzite to 205 ft., partly altered granite 205 to 209 ft., quartzite 209 to 210 ft.	70	"	.05		.03	XX at 204'
210-230	Altered splite and granite to 216'; quartzite 216-218'; altered splite and granite 218-230'. Minor fine-grained sulfides.	40	"	.020		.02	"
230-250	Quartzite	35	"	.025		.02	"
250-255	"	45	"	.025		.03	"
255-260	"	35	"	.025		.12	"
260-265	" Some chlorite and granite	35	"	.025		.44	"
265-270	" " " "	5	"	.015		.50	"
270-275	" " " " "	30	"	.025		.17	"
275-280	" " " " "	5	"	.025		.04	"
280-285	" " " " "	10	"	.025		.71	"
285-290	" " " " "	90	"	.020		.91	"
290-295	" " " " "	80	"	.030		.12	"
295-300	" No chlorite	85	"	.025		.38	"
300-305	"	60	"	.015		.16	"
305-310	"	25	"	.010		.16	"
310-315	"	75	"	.025		.39	"
315-320	"	65	"	.015		.18	"
320-325	"	75	"	.015		.18	"
325-330	Quartzite to 329'; dark grey gouge and granite breccia 329-330'	80	"	.015		.17	"

Footage	Lithology		Recovery	Au	Cu	Pb	Zn	Size Sort
330-335	Completely altered granite, gouge and breccia		95	Nil	.030	.15		[illegible]
335-340	" " " " " "		25	"	.020	.13		"
340-345	" " " " " "		80	"	.025	.21		"
345-350	" " " " " "		25	"	.020	.11		"
350-355	" " " " " "		30	"	.025	.18		"
355-360	No core		0	"	.025	.11		"
360-365	Completely altered granite. Brecciated.		15	"	.020	.09		"
365-370	" " " "	Fine-gr. sulfides	70	"	.030	.16		"
370-375	" " "	Pale albite	(sludge) 65	"	.035	.31		"
			(core)		.025	2.02		
375-380	" " "	Minor albite	(sludge) 65	"	.025	.13		"
			(core)		.040	.12		
380-385	" " "	Fine-grained sulfides	(sludge) 80	"	.030	.21		"
			(core)		.020	.16		
385-390	" " "	Some albite	(sludge) 60	"	.020	.23		"
			(core)		.020	.07		
390-395	Gray-colored sericitized quartzite		(sludge) 55	"	.010	.12		"
395-400	" " " "	to 396'.						
	Completely altered granite, minor albite 396-400'		(sludge) 65	"	.050	.17		"
			(core)		.050	.10		
400-405	Completely altered granite, some brecciation, fine-grained sulfides		(sludge) 95	"	.035	.09		"
			(core)		.020	.06		
405-410	Completely altered granite, some brecciation, fine-grained sulfides		75	"	.040	.12		"
410-415	Completely altered granite, some brecciation, fine-grained sulfides. 1' from granite at 414'		85	"	.050	.15		"
415-420	Completely altered granite, some brecciation, fine-grained sulfides		10	"	.035	.13		"
420-425	Completely altered granite except patch fresh granite 422-423'		30	"	.005	.09		"
425-430	Completely altered granite		35	"	.020	.09		"

Footage	Mineralogy	% Recovery	% Cu	oz. Ag	% Co	Size Core
430-435	Completely altered granite	5	[illegible]	.030	.09	BX
435-440	Nearly completely altered granite	5	"	.020	.04	"
440-445	Altered granite; patches fresh granite	25	"	.045	.11	"
445-450	Diabase dyke	15	"	.020	.19	"
450-455	" "	15	"	.010	.08	"
455-460	" " to 456'. Completely altered granite 456-460'	20	"	.050	.07	"
460-465	Altered granite and aplite	25	"	.025	.09	"
465-470	" "	25	"	.020	.02	"
470-475	" " " " to 473'; essentially fresh granite 473-479'	10	"	.025	.06	"
475-480	Altered aplite; minor diabase	10	"	.015	.20	"
480-485	" " " "	20	"	.030	.09	"
485-490	" " " "	20	"	.015	.17	"
490-495	" "	25	"	.015	.13	"
495-500	" " to 495'. Diabase dyke 495-500'	25	"	.015	.07	"
500-505	Diabase schist	20	"	.055	.29	"
505-510	Mixed diabase schist, altered granite and aplite	20				

End of hole at 510 feet.

Note: All assays are single assays unless otherwise indicated. All values of Ag determined by lead. All core and sludges lost.

Diabase samples were probably very unreliable from 370 feet to the bottom of the hole, due to caving from higher in the hole.

[illegible] Well No. [illegible]

Driller's Notes

Date Start: 12/1/54
Finish: 1/8/55

Drillers: Ingalls, Darrell
Helpers: Tyler, Hamington

Feet	Remarks
0 - 20	Very broken quartzite. No sludge. Cased to 24 at 20 feet.
20 - 35	No core, no sludge. Sand. Cemented.
35 - 40	Quartzite and sand. No sludge. Cemented.
40 - 55	Quartzite and sand. White sludge.
55 - 74	Very broken quartzite. Hard sand. White sludge.
74 - 80	Rusty granite with quartzite. Rusty-white sludge.
80 - 85	Sand. Brown sludge.
85 -115	Quartzite and sand. Light gray sludge.
115-120	Granite and sand. Gray and brown sludge.
120-140	Granite and quartzite. Gray sludge.
140-155	Quartzite and granite, very broken. Gray sludge.
155-160	Quartzite, granite and sand. Hole caving slightly. Greenish sludge.
160-165	Quartzite and sand. Very broken. Hole caving. Gray sludge.
165-170	Quartzite and granite. Light blue and gray sludge.
170-174	Quartzite and granite. Heavy to core. Light blue sludge.
174-180	Quartzite. Gray sludge.
180-189	Quartzite and granite. Very hard. Gray sludge.
189-200	Quartzite. Very hard and broken. Gray sludge. Cased to 24 at 200 feet.
200-210	Quartzite and granite. Some gauge. Gray sludge.
210-224	Altered granite. Soft. Blue-gray sludge.
224-230	Altered granite with gauge. Very soft. Hole caving slightly 225 to 230 feet. Gray sludge.
230-235	Slightly altered granite. Very soft, with gauge. Gray sludge.

Footage	Remarks
235-245	Quartzite, some granite. Grey sludge.
245-250	Quartzite. Hard and broken. Grey sludge.
250-260	Quartzite. Nice. Blue and grey sludge.
260-265	Quartzite. Grey sludge.
265-270	Very soft and gouge. Grey sludge.
270-275	Quartzite and altered granite. Some anthracite. Blue-grey sludge.
275-285	Quartzite and gouge. Hole caving at 278 feet. Grey sludge.
285-290	Altered granite and quartzite. 285 to 288 ft. was very hard, 288 to 290 ft. was softer. Blue-grey sludge.
290-295	Quartzite. Some anthracite. Very hard. Blue sludge.
295-298	Quartzite. Very hard. Blue sludge.
298-300	Quartzite. Nice. Bluish-grey sludge.
300-305	Quartzite. Nice. Dark grey sludge.
305-310	Quartzite, altered granite. Some anthracite. Grey sludge.
310-320	Quartzite, altered granite. Medium hard. Grey sludge.
320-330	Gouge. Blue sludge.
330-335	Altered granite. Very soft and broken. Dark grey sludge.
335-340	Altered granite and gouge. Very soft. Grey sludge.
340-350	Altered granite and gouge. Very soft. Grey sludge.
350-355	Mostly talc and gouge, a little altered granite. Hole caving at 353 feet. Grey sludge.
355-360	No core. Talc and gouge. Hole caving from 355 ft. Blue-grey sludge.
360-365	Anthracite and gouge. Blue sludge. Some core at 363 feet.
365-370	Altered granite. Very soft, some gouge. Blue-grey sludge.
370-375	There is 4 feet of core in bottom of hole - had to ream to bottom. Altered granite, very soft. Some anthracite. Blue and grey sludge.

Footage	Remarks
375-380	Had to wash to bottom of hole - 3 feet of sand. Altered granite, soft. Grey sludge.
380-385	Altered granite, soft. Blue and grey sludge. Had to wash through 5 feet of sand to bottom of hole.
385-390	Sulfides and gouge. Soft and broken. Blue-grey sludge. Washed and drilled 5 feet to bottom of hole.
390-395	Washed and drilled 5 feet through sand. Hole caving. Altered granite and gouge. Very soft and broken. Grey sludge.
395-400	Washed and drilled 5 feet to bottom. Caving. Sulfides. Lost some core when pulling. Hole caved back of core barrel. Cemented 12 gallons.
400-405	Cement did not set. Washed and drilled 25 feet of cement. Altered granite, sulfides. Bluish-grey sludge. No core noticed while pulling.
405-410	Washed rods 15 feet to bottom of hole. Sulfides. Lots of dark grey sludge. Gouge coming in hole from above.
410-415	Washed rods 15 feet to bottom of hole. Altered granite. Dark grey sludge.
415-420	Washed rods 15 feet to bottom. Altered granite and gouge. Dark blue sludge.
420-425	Washed 15 feet to bottom of hole. Altered and fresh granite. Gouge. Grey sludge.
425-430	Altered granite. Gouge. Dark blue sludge.
	Cased to 425 at 430 feet.
430-435	Altered granite, very soft. Grey sludge.
435-440	Altered granite, very soft. Blue-grey sludge.
440-445	Had to wash and drill 18 feet to bottom of hole. Altered granite, very soft. Grey sludge.
445-450	Fairly tight to bottom again. Altered granite, very soft and gouey. Blue sludge.
450-475	Had to wash 21 feet to bottom. Sparts and granite. Dark blue sludge.
	Cemented hole - 10 gallons cement.
	Line shifts prevent getting to bottom of hole through cove, concentrates, and maintenance on drill.

Footage	Description
475-480	Quartzite and quartz. Gray and white bluggs.
480-490	Hit some cave at 470 feet. Had to ream and drill 4 feet to bottom. Quartzite and quartz. Medium-gray sludge.
490-500	Quartzite and mica. Blue and gray sludge.
	Hole caves badly from 440 to 460 feet.
500-510	Aplite and quartz. Very soft and gouey. Light gray sludge.
	Had lots of trouble getting out of hole. Cave from 460 to 447 feet.

End of hole.

RECEIVED
JAN 3 1 1956

COORDINATES 24,348 N

23,161 E

ELEVATION 6554

Yellow Pine Mine
Stibnite, Idaho

DIAMOND DRILL HOLE NO. DC-63

BEARING Due East

INCLINATION Minus 49°

Page 1

Footage	Mineralogy	% Core Recovery	WO_3	Oz. Au	% Sb	Size Core
0 -100	Mixed fresh granite and quartzite. Boulders and sand. Impossible to determine where bedrock was entered -- probably somewhere between 60 and 150 Ft.					
100-105	Quartzite. Weathered (iron-stained) along fractures	15				AX
105-110	" " " " " "	15				"
110-115	" " " " " "	1	Nil	.010	.13	"
115-120	" " " " " "	20				"
120-125	Fresh granite. Weathered (iron-stained) along fractures	30				"
125-130	" " " " " " "	15				"
130-135	" " " " " " "	10	Nil	Tr	.11	"
135-140	Mixed fresh granite and quartzite. Weathered along frac.	10				"
140-145	" " " " " " " "	10				"
145-150	No core	0				"
150-155	" "	0				"
155-160	Fresh granite. Weathered along fractures	10	Nil	.005	.05	"
160-165	" " " " "	10				"
165-170	" " " " "	5				"
170-175	" " " " "	10	Nil	.010	.05	"
175-180	" " " " "	10				"
180-185	Fresh and partly altered granite (greenish color). Weathered along fractures.	30				"
185-190	Partially altered granite (greenish color). Weathered along fractures	5	Nil	.005	.07	"
190-195	Partially altered granite (greenish color). Weathered along fractures	5				"
195-200	Fresh and partially altered granite (greenish color). Weathered along fractures	40				"
200-205	Fresh and partially altered granite (greenish color). Weathered along fractures	25	Nil	.005	.03	"
205-210	Fresh and partially altered granite (greenish color). End of weathering at 207'	20	"	.010	.04	"

Footage	Mineralogy	% Core Recovery	% WO3	Oz. Au	% Sb	Size Core
210-215	Fresh and partially altered granite (greenish color).	15	Nil	.005	.04	AX
215-220	" " " " " "	90	"	Tr	.12	"
220-225	Essentially altered granite (greenish color). Small stibnite stringer at 223'. Stibnite at 225'	90	"	.005	.12	"
225-230	Essentially altered granite (greenish color). Minor sulfides and sb.	80	"	.005	.35	"
230-235	Essentially altered granite (greenish color). Good stibnite at 233', small stringer at 230'	90	"	.005	.93* Core 2	"
235-240	Altered granite. Small stringers and disseminations of stibnite.	55	"	.005	.32*	"
240-245	Altered granite; small patches fresh granite. Some stibnite	40	"	.035*	.41*	BX at 242'
245-250	Altered granite. Good stibnite 248 to 250'	65	"	.010	2.60*	BX
250-255	Altered granite. Some fresh granite 253 to 255'. Good stibnite 250 to 251'	35	"	.010	.29*	"
255-260	Mixed fresh and altered granite	15	"	.010	.09	"
260-265	" " " " "	8	"	Tr	.11	"
265-270	" " " " " . Greenish color	40	"	.005	.08	"
270-275	" " " " " " " Some sulfides	60	"	Tr	.10	"
275-280	Greenish colored. Schistose granite to 278. Altered granite with sulfides 278 to 280'	35	"	Tr	.10	"
280-285	Essentially altered granite. Greenish color. Sulfides 280 to 281'	30	"	.005	.09	"
285-290	Essentially altered granite, patches fresh granite. Greenish color	40	"	No sludge		"
290-295	Essentially altered granite, patches fresh granite. Greenish color	15	"	.005	.07	"
295-300	Altered granite. Fine-grained sulfides	10	"	Tr	.07	"
300-305	" " " " "	5	"	Tr	.03	"
305-310	" "	3	"	Tr	.10	"
310-315	No core	0	"	.005	.05	"
315-320	Lamprophyre dike (?) to 317'. Altered granite, some sulfides 317 to 320'. Greenish color	50	"	Tr	.06	"
320-325	Altered granite, some fine-grained sulfides. Greenish color.	70	"	Tr	.11	"
325-330	Altered granite, some fine-grained sulfides. Greenish color.	55	"	Tr	.10	"

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Footage	Mineralogy	% Core Recovery	% WO3	Oz. Au	% Sb	Size Core
330-335	No core	0	Nil	Tr	.06	EX
335-340	Altered granite, some fine-grained sulfides. Greenish color	25	"	Tr	.06	"
340-345	Altered granite, some fine-grained sulfides. Greenish color	5	"	Tr	.05	"
345-350	Altered granite, some fine-grained sulfides. Greenish color	5	"	.005	.06	"
350-355	Altered granite. Fine-grained sulfides. Some stibnite	5	"	Tr	.07	"
355-360	" " " " " "	5	"	.005	.05	"
360-365	Altered granite. Greenish color	5	"	Tr	.04	"
365-370	" " " "	5	"	Tr	.05	"
370-375	" " " "	10	"	Tr	.04	"
375-380	" " " " Patches fresh granite	10	"	Tr	.05	"
380-385	Mainly fresh granite to 384'. Altered granite with sulfides 384 to 385'.	15	"	.005	.05	"
385-390	Altered granite, greenish color.	15	"	Tr	.06	"
390-395	" "	15	"	Tr	.06	"
395-400	" "	15	"	.015	.04	"
400-405	Aplite	15	"	.015	.03	"
405-410	Aplite and fresh granite. Patches of alteration	35	"	.005	.04	"
410-415	" " " " " " "	10	"	.020	.02	"
415-420	Fresh granite	5	"	.005	.04	"
420-425	" "	25	"	.005	.05	"
425-430	" "	50	"	.005	.03	"
430-435	" " to 433, altered granite with fine-grained sulfides 433 to 435'	80	"	.015	.04	"
435-440	Altered granite with fine-grained sulfides to 437', fresh granite 437 to 440'	50	"	.005	.04	"
440-445	Fresh granite	30	"	Tr	.73	"
445-450	Fresh granite, patches of alteration	30	"	.005	.69	"
450-455	Altered granite, fine-grained sulfides	35	"	.025	.37	"
455-460	Fresh granite	95	"	.005	.07	"
460-465	" "	55	"	Tr	.05	"
465-470	" "	60	"	Tr	.03	"
470-475	" " to 474', aplite 474 to 475'	40	"	Tr	.03	"
475-480	Aplite	35	"	.005	.04	"
480-485	"	30	"	.005	.10	"

Footage	Mineralogy	% Core Recovery	% SO_3	Oz. Au	% Sb	Size Core
485-490	Aplite and fresh granite	35	Nil	.005	.06	EX
490-495	Mainly altered granite with fine-grained sulfides; patches fresh granite	25	"	.020	.06	"
495-500	Mixed altered and fresh granite	30	"	.010	.06	"
500-505	Essentially fresh granite	30	"	Tr	.06	"
505-510	Slightly altered granite	15	"	Tr	.06	"
510-515	" " "	10	"	.005	.01	"
515-520	" " "	10	"	Tr	.02	"
520-525	" " "	30	"	Tr	.03	"
525-530	Fresh granite except altered at 528' and 1/8" stringer stibnite	50	"	Tr	.19	"
530-535	Fresh granite. 1/8" stringer stibnite at 530'	80	"	Tr	.11	"
535-540	Fresh granite.	90	"	Tr	.04	"
540-545	" "	60	"			"
545-550	Mixed fresh and altered granite. Stibnite at 550'	45	"	Tr	.07	"
550-555	" " " " "	45	"	.005	.07	"
555-560	" " " " "	20	"			"
560-565	" " " " "	15	"			"
565-570	Essentially fresh granite	35	"	Tr	.04	"
570-575	" " "	35	"			"
575-580	" " "	35	"			"
580-585	" " "	25	"	.005	.07	"
585-590	Aplite and fresh granite	25	"			"
590-595	" " " "	25	"			"
595-600	" " " "	30	"			"
600-605	" " " " Minor alteration	25	"			"
605-610	" " " " " "	30	"	.005	.02	"
610-613	Fresh granite	65	"			"

End of hole at 613 feet.

*Note-All assays are sludge assays except as noted below.
Nil values of SO_3 determined by lamping.
All core and sludges lamped.

	Sludge Assays		Core Assays		Weighted Average	
Footage	Au	Sb	Au	Sb	Au	Sb
230-235	.005	.92	.005	.95	.005	.93
235-240	No Sludge 233-242'		.005	.32	.005	.32
240-245	.005	.66	.075	.13	.035	.41
245-250	.010	2.84	.005	.38	.010	2.60
250-255	.010	.21	Tr	.86	.010	.29

DIAMOND DRILL HOLE NO. 4C-63

Driller's Notes

Date Start: 5/24/55
Finish: 8/14/55

Driller: Manning
Helpers: Berkell
Anderson
R. Smith

Footage	Remarks
0 - 65	Pipe driving. Blasted several boulders.
65 - 70	Drilled, cemented.
70 - 75	Cement did not set. Drilled to 75', cemented.
75 - 80	Drilled to 80', cemented.
80 - 85	Drilled to 85', cemented. Decomposed granite.
85 - 90	Drilled 15' cement and on to 90'. Cemented.
90 - 95	Drilled 20' cement and on to 95'. Cemented. Drilled out cement and cased to AX.
95 -115	Quartzite and sand. Cemented.
115-125	Drilled 25' cement and on to 125'. Quartzite and fresh granite. Brownish-grey sludge. Cemented.
125-135	Drilled 11' cement and on to 135'. Fresh granite and sand pockets. Hole caving from 119'. Cemented.
135-145	Drilled 15' cement and on to 145'. Either decomposed granite or sand. Cemented.
145-155	Drilled 10' cement and on to 155'. No core -- sand or decomposed granite. Brown sludge.
155-165	Weathered and fresh granite. Brown to grey sludge. Cemented.
	Drilled 20' cement. Hole went crooked. Cemented.
165-180	Drilled 15' cement and on to 180'. Broken fresh granite. Sludge varied in color from grey to rusty brown. Lots of sandy sludge. Cemented.
	Drilled 25' cement and hole went crooked. Cemented.
180-185	Drilled 18' cement and on to 185'. Fresh, weathered granite. Sludge varied from silky grey to rusty brown.
185-195	Weathered fresh granite. Brownish grey sludge.

Footage	Remarks
195-200	Fresh granite, slightly weathered. Harder and very broken. Sludge varied from grey to milky grey.
200-205	Fresh granite. Very broken. Sludge varied from brownish grey to milky.
205-210	Fresh granite. Greenish-grey sludge. Very soft and broken. Hole caving at 201' and at 185 to 195'. Lost some sludge water. Cemented.
	Drilled 30' cement.
210-215	Lots of talc. Milky and grey sludge.
215-220	Hard. Milky sludge.
220-223	Very hard. Milky and grey sludge. Core blocked.
223-235	Milky to blue sludge. Lost sludge water from 232-233'.
235-242	No sludge return. Hole caving at 118'.
	Cased to EX at 242'. Cemented casing in.
	Drilled 7' cement.
242-245	Milky blue sludge.
245-250	Heavy gouge. Very soft. Sludge turned from milky to dark blue at 247'.
250-255	Some gouge. Very soft and broken. Blue to grey sludge.
255-275	Some gouge. Very soft and broken. Grey sludge. Lost most of sludge water at 270½'. Used sawdust.
275-280	Some gouge. 50% sludge water return. Cemented.
	Drilled 42' cement.
280-285	Gouge. Lost all sludge water at 282'. Cemented.
	Cement did not set.
285-288½	Some gouge. No sludge. Put 1/2 gallon sawdust in hole, got 90% water return.
288½-295	Very soft. Gouge. Milky and grey sludge. Cemented.
	Drilled 15' cement.
295-300	Soft and gougy. Milky and grey sludge.
300-305	Gougy. Thick milky sludge.

Footage	Remarks
305-310	Gouey. Thick milky and grey sludge.
310-315	Very soft. Thick light-grey sludge.
315-320	Dark grey sludge to 319'. Light grey sludge 319 to 320'.
320-325	Very broken, some gouge. Medium to light grey sludge. 90% water return.
325-330	Very broken, some gouge. Milky blue and medium grey sludge. 90% water return.
330-335	Very soft. Milky grey sludge. Good water return.
335-340	Very soft. Sludge turned dark grey at 336'. Good water return.
340-350	Gouey and very soft. Thick dark grey and light grey sludge. 50% water return to 345'. 90% from 345 to 350'.
350-360	Very soft and gouey. Grey and blue-grey sludge. Poor water return to 353', very good from 353 to 360'.
360-369	Very soft and gouey. Sludge return very good. Sludge varied in color from thick dark grey to light grey, occasionally milky blue grey.
369-380	Soft and gouey. Very good sludge return. Milky grey sludge. Hole caving from 360 to 380'.
380-390.	Had to wash and drill from 350 to 380'. Sludge turned from grey to blue-grey at 384' and back to grey at 385'. Had trouble pulling rods.
390-400	Washed and drilled 30' to bottom. Soft and gouey. Medium grey sludge. 60% sludge water return.
400-405	Washed and drilled from 390 to 400'. Some gouge. Poor sludge return. Hole caving badly. Cemented.
	Cement did not set. Washed and drilled to bottom and cemented again.
	Hit cement from 347 to 355'.
	Hole open from 355 to 364' -- no cement. Had gouge and cave at 364'. Drilled to 377' and cemented.
	Hole evidently making water; cement will not set. Drilled and washed from 335 to 405'.
	Pulled 242' EX casing and reamed from 242 to 400'. Cased to EX to 400'.
405-410	Fresh granite and gouge. Grey and milky-grey sludge.

Footage	Remarks
416-420	Some gouge. Thick grey and milky-grey sludge. Very broken.
420-434	Hard and broken fresh granite. Milky-grey sludge.
434-438	Altered. Milky-blue sludge.
438-449	Fresh. Sludge milky-blue from 445 to 448. Soft streaks.
449-454	Mixed fresh and altered granite. Some sulfides and antimony. Blue-grey sludge.
454-479	Fresh, hard and broken. Milky grey sludge.
479-484	Very soft. Milky grey sludge.
484-491	Fresh granite. Milky-blue sludge. Some gouge.
491-494	Altered. Very soft and gougy. Bluish-grey sludge.
494-505	Fresh granite and gouge. Very soft and broken. Thick grey sludge.
505-520	Very soft fresh granite. Thick milky-grey sludge.
520-525	Fresh granite and gouge. Grey sludge.
525-529	Fresh granite. Grey sludge. Stringer of stibnite.
529-535	Fresh granite with altered seams. Milky-blue and grey sludge. Stringer of stibnite, some sulfides.
535-542	Fresh granite. Milky-grey sludge.
542-547	Fresh granite. Grey sludge.
547-554	Slightly altered granite. Sulfides and antimony. Very soft and broken, some gouge. Thick blue-grey sludge.
554-565	Fresh granite with altered seams. Very soft and gougy. Very thick blue-grey sludge.
565-570	Fresh granite. Very soft to 567 feet, harder to 570 ft. Medium-grey sludge.
570-580	Fresh granite; soft to 575 ft., harder 575 to 580 ft. Grey sludge, thick sludge from 570 to 575 ft.
580-585	Fresh granite and gouge. Soft in stream. Talck grey sludge.
585-595	Fresh granite with gouge streaks. Thick grey and blue-grey sludge.
595-604	Fresh granite; some sulfides. Very soft to 600 ft., much harder from 600 to 604 ft. Grey sludge.

Footage	Remarks
604-609	Fresh granite, some gouge. Grey sludge.
609-613	Fresh granite, a few soft streaks. Grey sludge.

End of hole

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JAN 3 1 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

AUDIT CERTIFICATE

RECEIVED
MAY 17 1956

I have examined the records and transactions of

Bradley Mining Company
Stibnite, Idaho
and
1022 Crocker Building
San Francisco, California

pertaining to Exploration Project Contract No. Idm-E453, Docket No. DMEA-2636, dated November 25, 1952, including Amendments Nos. 1 to 5 inclusive, covering a project for the exploration of antimony on property known as the Yellow Pine Mine, located at Stibnite, Valley County, State of Idaho, for the period of November 25, 1952 to August 31, 1955.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

The audit disclosed the following facts in regard to the amount to be paid the contractor:

Total Cost as billed by Contractor		$50,842.91
Additional Costs allowed by audit		181.53
Total		$51,024.44
Exceptions (see Audit Report for details)		
Prior to this audit	- 0 -	
During this audit	- 0 -	None
Total Accepted Cost		$51,024.44

The contract calls for a 75 percent participation of exploration expense by the United States Government. Therefore, payment to the contractor by the Government in the amount of Thirty eight thousand two hundred sixty eight and 33/100 Dollars

---$38,268.33---

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted, or will accept the project as having otherwise met the terms of the contract.

May 9, 1956

C. A. Turner, Auditor

AUDIT REPORT

RECEIVED
MAY 17 1956

I. INTRODUCTION

On April 10, 1956 a final audit (covering operations for the period of November 25, 1952 to August 31, 1955) was made of the records and transactions pertaining to Exploration Project Contract No. Idm-E453, Docket No. DMEA-2636, dated November 25, 1952, including Amendments Nos. 1 to 5 inclusive with the:

Bradley Mining Company
Stibnite, Idaho
and
1022 Crocker Building
San Francisco, California

covering a project for the exploration of antimony, on property commonly known as the Yellow Pine Mine, located at Stibnite, Valley County, State of Idaho.

The original accounting records under this contract were maintained by Arnold Souders, Chief Clerk under the direction of B. F. Mahoney, Manager.

J. A. Bardill, Metallurgist and representative of the Field Team, Region I, Northwest District, accompanied the auditor and assisted in the audit. Arnold Souders, Chief Clerk and Keith Wallace, Assistant Manager rendered considerable assistance during the audit.

II. GENERAL INFORMATION ON RECORDS

The general books of the Company were maintained in the San Francisco office, and, therefore were not made available to the auditor during the audit at the mine office located at Stibnite, Idaho. However, all items of original entry were at the mine office and were made available to the auditor.

The Operator's Monthly Report and Voucher Form's MF-104 were prepared at the mine office, Stibnite, Idaho and were forwarded to home office in San Francisco, where they were approved and signed by G. C. Orton, Assistant Secretary of the Company.

Labor and supply items of cost were paid at the mine with checks drawn on the First Security Bank of Idaho, Boise, Idaho. The checks were signed by any two of the following authorized signers, B. F. Mahoney, K. G. Wallace or Arnold Souders.

The actual on-site audit was preceeded by a considerable amount of pre-audit analysis and preparatory work in Spokane, Washington, office of DMEA.

III. SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs shown in the "Total to Date" column of the Operator's Monthly Report and Voucher Form MF-104, for the month of August 1955.

Documentary support of costs incurred and claimed by the Operator on the Operator's Monthly Report and Voucher Form MF-104 with the exception of equipment purchases was waived by a Field Team Letter to the Operator dated February 20, 1953. Therefore a complete and detailed audit and analysis of all costs was necessary.

The audit findings presented below are those resulting after correction of the cost distributions.

(1) Agreed Unit Costs

Costs allowed the Operator for work performed on the basis of agreed unit costs, for units of work actually performed are as follows:

Agreed Unit Costs

Diamond Drilling		
Area Southeast of Pit	1,162 feet @ $5.02 per foot	$5,833.24
North Tunnel Area	951 feet @ 4.10 per foot	3,899.10
Hennessey Creek Area	586 feet @ 5.10 per foot	2,988.60
Airport Scout Ridge	4,149 feet @ 4.73 per foot	19,624.77
Driving Pipe for Drill Holes	862 feet @ 9.00 per foot	7,758.00
Reaming and Casing	919 feet @ 2.65 per foot	2,435.35
Accepted Costs		$42,539.06

Footages and units completed were verified by the final inspection report of John D. Bardill, Metallurgist, U. S. Bureau of Mines, dated October 28, 1955.

(2) Labor and Supervision

The basic record for the labor costs consisted of a monthly payroll which was made from the Employees Monthly Time Sheet on which was recorded daily, the hours worked, location worked, classification of labor, rate of pay and the daily distribution of labor between the Exploration Project and the Operator's other mining and milling activities. The Employees Monthly Time Sheet was made up from the Daily Time Sheet prepared by the employee and approved by the shift boss, which gave the date and shift worked, classification of work, location of work and rate of pay.

Employees whose labor benefited both the exploration project and the Operator's other mining and milling activities, was recorded on the Employees Monthly Time Sheet, on the basis of actual time spent on each job.

Employees were paid at the going rates for like work in the mining district with legal overtime as follows:

Year	1953
Miners	$1.645 to $1.785 per hour
Timber Framer	$1.785 per hour
Machinist	$1.85 per hour
Shift Boss	$465.00 per month
Drill Foreman	$465.00 per month

During the audit the monthly time sheets were checked against the payrolls to verify the distribution of labor applicable to the exploration project and the Operator's other mining and milling activities.

Labor costs determined by this audit to be allowable to the exploration project are as follows:

Labor - Preparatory Work	$1,418.90
Supervision - Technical	1,000.00
Accountant	500.00
Accepted Costs	$2,918.90

Labor of $1,418.90 was all charged to (8) Contingencies - Preparatory Work. This item was discussed with members of the Field Team and it was decided that the preparatory work was a necessary reasonable and direct cost of the project.

Technical charges were for the services of K. G. Wallace, Assistant Manager. During the period of June to October 1953, the claims made on the Forms MF-104 were arbitrary estimates made by Mr. Wallace, while for the balance of the contract a record of the actual time spent on the project was made. The actual time spent on the project was in excess of the claims made by the Operator which did not exceed the "allowable maximum" of $1,000.00.

Consultants Fees were paid to an outside Geologist, Peter Joraleman, 315 Montgomery Street, San Francisco, California. Peter Joraleman was paid for time actually spent on the project at the rate of $50.00 per day for 23 days during July, August and September 1953.

Accepted Costs	23 days @ $50.00 per day	$1,150.00

The cost of Peter Joraleman's services were verified by duplicate copies of the voucher check.

The amount claimed did not exceed the allowable maximum of $1,150.00.

Accounting labor was an arbitrary charge made by the Operator to cover the clerical expense of the project. The claim of $500.00 is in the opinion of this auditor, a necessary and reasonable direct cost of the exploration project and as such is an accepted cost.

The allowable maximum of $500.00 was not exceeded.

(3) Operating Materials and Supplies

A stores account and warehouse facilities are maintained by the Operator to supply the mining and milling operations as well as the exploration project with materials and supplies as needed. Purchases are all charged to the stores account with the exception of a few items which are charged direct to the operations. Supplies are warehoused at actual cost, which is the Vendor's invoice price plus freight and delivery charges. Supplies are issued to the mining and milling operations and the exploration project at the actual cost without any markup in price. Any expense incidental to warehousing is absorbed currently as an overhead expense by the Operator in his other mining and milling operations.

Audit of the materials and supplies consisted of an analysis of the warehouse requisitions, which included recomputations, extensions and distribution. Prices used on the warehouse requisitions were compared with the vendor's invoices and freight bills to determine whether or not any markup was being charged to exploration project.

The allowable operating materials and supplies which were charged by the Operator to the exploration project at the same unit price as charged to the Operator's other mining and milling operation are as follows:

Operating Materials and Supplies

Core Boxes		$514.00
(6) Drill Sites for Surface Holes		318.43
(8) Preparatory Work		454.97
		$1,287.40
Transfer to		
(6) Drill Sites	$318.43	
(8) Preparatory Work	454.97	773.40
Accepted Costs		$514.00

(4) Operating Equipment

The acceptable costs under this category were determined to be as follows:

Rental

This item of cost not applicable to this contract.

Purchases

This item of cost not applicable to this contract.

Depreciation

1 Compressor 315 CFM valued at $10,800.00	
Depreciation Charged	
1 21/31 months at $180.00 per month	
Accepted Costs	$301.94

An analysis was made of the daily reports rendered by the shift boss on the job to determine the actual time the equipment was in use on the project.

The allowable maximum of $360.00 was not exceeded.

(5) Initial Rehabilitation and Repairs

This item of cost not applicable to this contract.

(6) New Buildings, Improvements, Installations

Drill Site Preparation for Surface Holes

The allowable costs under this category were found to be as follows:

Tractor Operation	
87 Hours @ $8.00 per hour	$696.00
Lumber	55.17
Pipe and Fittings	263.26
Accepted Costs	$1,014.43

The allowable maximum of $1,280.00 was not exceeded.

(7) Miscellaneous

The allowable costs in this category were determined by audit of the invoices and cancelled checks, or, as in the case of payroll taxes and workmen's compensation insurance by examination of the company's tax returns and insurance policies and reports. The accepted costs were found by the audit to be as follows:

Payroll Taxes	$86.15
Workmen's Compensation	145.24
Sampling and Assaying	1,899.75
Accepted Costs	$2,131.14

Payroll Taxes were determined by an analysis of the Operator's payrolls and the various State and Federal Tax Returns. The State and Federal Tax Returns were examined and the rates were found to be as follows:

Year	1953	1954
Employers Quarterly Federal Tax Return		
Firm No. 94-0337510		
Rates F.I.C.A.	1.5%	2.0%
State of Idaho		
Unemployment Security Agency		
Firm No. 1099-00391		
Rates Unemployment Insurance	1.1%	1.1%
Federal Excise Tax Returns		
Rates Unemployment Insurance	.3%	.3%
Total	2.9%	3.4%

Payroll Taxes Computed	1953	1954
Labor		
Supervision - Technical	$800.00	$200.00
Accounting	400.00	100.00
Preparatory Work	1,418.90	-
	$2,618.90	$300.00
Rates	2.9%	3.4%
Accepted Payroll Taxes	$ 75.95	$ 10.20

Payroll taxes are reasonable and proper under the turms of the contract and are allowed by this audit.

Liability Insurance or workmen's compensation consisted of premiums paid to the Liberty National Insurance Co. Policy No. 19473 whose rates per $100.00 of payroll were as follows:

					1953	1954
Miners Underground					$5.98	$ 6.13
Clerical					.06	.05

Computed as follows

Year of 1953					
Supervision - Technical	$800.00	@	$5.98	$47.84	
Accounting	400.00	@	.06	.24	
Preparatory Work	1,418.90		5.98	84.85	
	$2,618.90				$132.93
Year of 1954					
Supervision - Technical	$ 200.00	@	$6.13	$12.26	
Accounting	100.00	@	.05	.05	
	$ 300.00				12.31
Total Accepted Costs					$145.24
Less Liability Insurance Claimed					49.86
Additional Liability Insurance					$ 95.38

The additional liability insurance is a reasonable and just claim under the terms of the contract and is allowed by this audit.

Sampling and Analysis was found by the audit to cover the cost of assays made in the Operator's laboratory of antimony, gold and tungsten samples. The allowable costs under this category are as follows:

Assays				
Antimony	836	@	$1.50 ea.	$1,254.00
Gold	853	@	.75 ea.	639.75
Tungsten	3	@	2.00 ea.	6.00
Accepted Costs				$1,899.75

The cost per assay, as claimed by the Operator on the Operator's Monthly Report and Voucher Form MF-104 is an arbitrary charge per assay. However, they are considered reasonable and just and are allowed by this audit.

A review of the Operator's Assay Laboratory Operation Costs for the period October 1953 to August 1954 indicated that the Operator's actual cost of assays was in excess of the amount claimed. During this period the Company made

2,277 Determinations @ $3.927 ea. $8,941.67

(8) Contingencies

The audit disclosed, other necessary, reasonable direct cost of performing the exploration work, within the limit of the total aggregate estimates of costs, not included in Exhibit A. This work consisted of the preparation of the North Tunnel area, Pit area and Hennessey Creek area prior to diamond drilling.

The North Tunnel was reopened by the Bradley Mining Company in February 1951. Subsequent to February 1951 and prior to the exploration project work, sections of the tunnel in the Meadow Creek fault zone caved, necessitating an extensive cleanup and some timbering and drill stations. It was also necessary to cleanup slides and install pipe in the Pit area and Hennessey Creek area. This work had the approval of the Government at the time the work was in progress. In a discussion with members of the Field Team during the audit, they upheld the necessity of the work and the propriety of the costs.

This work was not expressly authorized by the contract, but it did have the approval of the Field Team when the work was in process. Accordingly, these costs have been considered as allowable under the specific estimate of $3,038.00 for contingencies in Exhibit A of the contract.

Costs allowed are as follows:

Preparatory Work

Labor		
North Tunnel	$1,323.54	
Pit Area	80.18	
Hennessey Creek	15.18	$1,418.90
Supplies - North Tunnel		
Lumber	119.46	
Explosives	18.10	
Pipe and Fittings	206.63	
Track	38.04	
Air Hose	53.00	
Fuel Oil and Lube	19.27	
Miscellaneous	.47	454.97
Accepted Costs		$1,873.87

The audit disclosed that all costs charged to this project, but including the additions to the Operator's claim under item (7) Miscellaneous, payroll taxes $86.15 and liability insurance $95.38 are reasonable and proper under the terms of the contract.

The adjustments between "Items of Cost" as shown on the August 1955, Operator's Monthly Report and Voucher Form MF-104, the additions to the Operator's claim, and the accepted costs as disclosed by this audit are summarized as follows on the Audit Summary:

AUDIT SUMMARY

	Total Costs August 1955 MF-104	Corrected Distribution	Disallowed By Audit	Accepted Costs
1. Unit Costs				
Diamond Drilling	$42,539.06	$42,539.06	-	$42,539.06
2. Labor and Supervision				
Labor	-	-	-	-
Accountant	-	500.00	-	500.00
Supervision	-	-	-	-
Consultant	1,150.00	1,150.00	-	1,150.00
Technical	1,000.00	1,000.00	-	1,000.00
3. Operating Materials & Supplies				
Timber	-	-	-	-
Explosives	-	-	-	-
Pipe	-	-	-	-
Track	-	-	-	-
Core Boxes	-	514.00	-	514.00
Miscellaneous	514.00	-	-	
4. Operating Equipment				
Rental	-	-	-	-
Purchase	-	-	-	-
Depreciation	301.94	301.94	-	301.94
5. Initial Rehabilitation & Repairs	-	-	-	-
6. New Buildings, Improvements, Etc.	1,014.99	1,014.43	-	1,014.43
7. Miscellaneous				
Sampling and Analysis	1,899.75	1,899.75	-	1,899.75
Payroll Taxes	-	-	(86.15)	86.15
Liability Insurance	-	49.86	(95.38)	145.24
Accounting	500.00	-	-	-
8. Contingencies				
Preparatory Work	1,923.17	1,873.87	-	1,873.87
Total	$50,842.91	$50,842.91	$181.53	$51,024.44

The contract contained items of cost expressly designated as "allowable maximums". The status of the allowable maximums is summarized as follows:

	Allowable Maximums	Accepted Cost	Balance
Technical Services	$1,000.00	$1,000.00	$ -
Consultants	1,150.00	1,150.00	-
Depreciation - Compressor	360.00	301.94	58.06
Drill Site Preparation	1,280.00	1,014.43	265.57
	$3,790.00	$3,466.37	$323.63

At the conclusion of the audit April 10, 1956, the findings were discussed with Keith Wallace, Assistant Manager and Arnold Souders, Chief Clerk.

The final summarization of facts and findings was discussed with A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, Northwest District.

C A Turner

May 9, 1956

C. A. Turner, Auditor

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Audit Report
Lbm-2453, DMEA-2636
Bradley Mining Company

Dear Mr. Turner:

The final Audit Report and Audit Certificate covering the referenced project is acceptable and normal distribution is authorized.

For your guidance in the preparation of future audit reports, I wish to call your attention to a relatively unimportant error in cost distribution. In this report you transferred accounting costs from category (7) Miscellaneous, as properly reported by the Operator, to category (2) Labor and Supervision. Article 6 (a) of the contract specifies that category (7) includes accounting. Also, page 3 of the Contract Interpretation Guide, which follows page 21 of the audit manual, indicates that accounting is classified under category (7).

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

EDTalbert/wb
May 17, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
1201 N. Division Street
Spokane 2, Washington
February 24, 1956

RECEIVED
FEB 27 1956

Mr. Jay L. Chambers, Chief
Contract Administration and Audit Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D.C.

Re: Bradley Mining Co.
Contract No. Idm-E453
Docket No. DMEA 2636

Dear Mr. Chambers:

This will acknowledge your letter of February 15, 1956 in which you inquire as to my audit plans for the Bradley contract No. Idm-E453.

I have had this case in mind for some time, but due to the unfinished audits on the docket have not scheduled it for audit.

I expect to make this audit early in April if possible.

Yours very truly,

C. A. Turner, Auditor

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 15 1956

AIR MAIL

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Contract Idm-E453
Docket No. DMEA-2636
Bradley Mining Company

Dear Mr. Turner:

By letter dated February 6, 1956, I requested advice from you as to your audit plans relative to contracts Idm-E173 and Idm-E427 with the Bradley Mining Company. Since writing that letter there has come to my attention the need for an audit of another contract with this Operator, i. e., contract Idm-E453.

A recently received Field Team Final Report states that this project was completed during August 1955. Prior to receipt of this report I was not aware that the project had been completed inasmuch as the last MF-104 received in this Division covers December 1954 work and your Monthly Work Load Reports have not programmed an audit.

Please advise me in regard to your audit plans for this contract.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

EDTalbert/wb
February 15, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1955 Docket No. DMEA 2636 Contract No. Idm-3 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	983.84	41,555.22	42,539.06	983.84	41555.22	42539.06
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
~~Supervision~~ Accountant				500.00	—0—	500.00
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		514.00	514.00	514.00	514.00	—0—
Core Boxes				514.00	—0—	514.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,014.99	1,014.99		1014.99	1014.43
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	72.00	1,827.75	1,899.75	72.00	1827.75	1899.75
Payroll Taxes				86.15	—0—	86.15
Liability Insurance				145.24	—0—	145.24
Accounting		500.00	500.00		500.00	—0—
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1873.87
TOTALS	1055.84	49,787.07	50,842.91	1237.39	49787.07	51024.44

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 9/20/55 *Payee Bradley Mining Co.

Per [illegible] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 928.03

Signature MEP
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

Adjusted to final audit report

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6453 in accordance with the terms of the contract.

Signature /s/ John D Bardill Title Metallurgist Date 5/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wm G Agnew Title Acting Exec Officer Date 5/21/56

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
MAY 31 1966

Month of August 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Airport	1'	983.84	208	19,624.77	4149	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'			7,758.00	862	9.00	215	9.00
Ream & Case	1'			2,435.35	919	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		72.00		5,365.69				
Total Distributed Costs		1,055.84		47,904.75				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		1,055.84		50,842.91				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 9/26/55 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

Remarks:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

151 John D Burdell

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR-

RECEIVED
MAY 31 1956

September 11, 1955

DMEA Progress Report for August, 1955

Contract Idm-2 453

Progress - Scout Ridge Area

Diamond drill hole SC-63 was completed to a length of 613 feet in August. Total advance during the month was 208 feet.

Average advance in August was 16.6 feet per machine-shift, including tearing down time. Twelve and one-half days were worked on a single shift basis.

The log of the hole is enclosed.

Results

The rock drilled in August was primarily fresh granite, with but relatively few areas of alteration. Ten feet (from 445 to 455 feet) assayed 0.71% antimony and minor stringers of stibnite were noted in the core at 528, 530 and 550 feet. Gold values were consistently very low.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

August, 1955

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-63	208 ft. at $4.73	$983.84

Item 7 - Miscellaneous

Analytical Work

32 Antimony Assays at $1.50	$48.00	
32 Gold Assays at $0.75	24.00	
(Exceeds contract estimated maximum)		
Total for "Other", Form MF-1044		$ 72.00

COORDINATES 24,348 N
23,161 E

ELEVATION 6554

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-63

BEARING Due East

INCLINATION Minus 49°

Footage	Mineralogy	% Core Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -100	Mixed fresh granite and quartzite. Boulders and sand. Impossible to determine where bedrock was entered — probably somewhere between 60 and 150 Ft.					
100-105	Quartzite. Weathered (iron-stained) along fractures	15				AX
105-110	" " " " " "	15				"
110-115	" " " " " "	1	Nil	.010	.13	"
115-120	" " " " " "	20				"
120-125	Fresh granite. Weathered (iron-stained) along fractures	30				"
125-130	" " " " " " "	15				"
130-135	" " " " " " "	10	Nil	Tr	.11	"
135-140	Mixed fresh granite and quartzite. Weathered along frac.	10				"
140-145	" " " " " " " "	10				"
145-150	No core	0				"
150-155	" "	0				"
155-160	Fresh granite. Weathered along fractures	10	Nil	.005	.05	"
160-165	" " " " "	10				"
165-170	" " " " "	5				"
170-175	" " " " "	10	Nil	.010	.05	"
175-180	" " " " "	10				"
180-185	Fresh and partly altered granite (greenish color). Weathered along fractures.	30				"
185-190	Partially altered granite (greenish color). Weathered along fractures	5	Nil	.005	.07	"
190-195	Partially altered granite (greenish color). Weathered along fractures	5				"
195-200	Fresh and partially altered granite (greenish color). Weathered along fractures	40				"
200-205	Fresh and partially altered granite (greenish color). Weathered along fractures	25	Nil	.005	.03	"
205-210	Fresh and partially altered granite (greenish color). End of weathering at 207'	20	"	.010	.04	"

Footage	Mineralogy	% Core Recovery	% WO_3	Oz. Au	% Sb	Size Core
210-215	Fresh and partially altered granite (greenish color).	15	Nil	.005	.04	AX
215-220	" " " " " " "	90	"	Tr	.12	"
220-225	Essentially altered granite (greenish color). Small stibnite stringer at 223'. Stibnite at 225'	90	"	.005	.12	"
225-230	Essentially altered granite (greenish color). Minor sulfides and Sb.	80	"	.005	.35	"
230-235	Essentially altered granite (greenish color). Good stibnite at 233', small stringer at 230'	90	"	.005	.93* Core	"
235-240	Altered granite. Small stringers and disseminations of stibnite.	55	"	.005	.32*	"
240-245	Altered granite; small patches fresh granite. Some stibnite	40	"	.035*	.41*	EX at 242'
245-250	Altered granite. Good stibnite 248 to 250'	45	"	.010	2.60*	EX
250-255	Altered granite. Some fresh granite 253 to 255'. Good stibnite 250 to 251'	35	"	.010	.29*	"
255-260	Mixed fresh and altered granite	15	"	.010	.09	"
260-265	" " " " "	8	"	Tr	.11	"
265-270	" " " " " . Greenish color	40	"	.005	.08	"
270-275	" " " " " " " Some sulfides	60	"	Tr	.10	"
275-280	Greenish colored. Schistose granite to 278. Altered granite with sulfides 278 to 280'	35	"	Tr	.10	"
280-285	Essentially altered granite. Greenish color. Sulfides 280 to 281'	30	"	.005	.05	"
285-290	Essentially altered granite, patches fresh granite. Greenish color	40	"	No sludge		"
290-295	Essentially altered granite, patches fresh granite. Greenish color	15	"	.005	.07	"
295-300	Altered granite. Fine-grained sulfides	10	"	Tr	.07	"
300-305	" " " " "	5	"	Tr	.03	"
305-310	" "	3	"	Tr	.10	"
310-315	No core	0	"	.005	.06	"
315-320	Lamprophyre dike (?) to 317'. Altered granite, some sulfides 317 to 320'. Greenish color	50	"	Tr	.06	"
320-325	Altered granite, some fine-grained sulfides. Greenish color.	70	"	Tr	.11	"
325-330	Altered granite, some fine-grained sulfides. Greenish color.	55	"	Tr	.10	"

Footage	Mineralogy	% Core Recovery	% WO3	Oz. Au	% Sb	Size Core
330-335	No core	0	Nil	Tr	.06	EX
335-340	Altered granite, some fine-grained sulfides. Greenish color	25	"	Tr	.06	"
340-345	Altered granite, some fine-grained sulfides. Greenish color	5	"	Tr	.05	"
345-350	Altered granite, some fine-grained sulfides. Greenish color	5	"	.005	.06	"
350-355	Altered granite. Fine-grained sulfides. Some stibnite	5	"	Tr	.07	"
355-360	" " " " " " "	5	"	.005	.05	"
360-365	Altered granite. Greenish color	5	"	Tr	.04	"
365-370	" " " "	5	"	Tr	.05	"
370-375	" " " "	10	"	Tr	.04	"
375-380	" " " " Patches fresh granite	10	"	Tr	.05	"
380-385	Mainly fresh granite to 384'. Altered granite with sulfides 384 to 385'.	15	"	.005	.05	"
385-390	Altered granite, greenish color.	15	"	Tr	.04	"
390-395	" "	15	"	Tr	.06	"
395-400	" "	15	"	.015	.04	"
400-405	Aplite	15	"	.015	.03	"
405-410	Aplite and fresh granite. Patches of alteration	35	"	.005	.04	"
410-415	" " " " " " "	10	"	.020	.02	"
415-420	Fresh granite	5	"	.005	.04	"
420-425	" "	25	"	.005	.05	"
425-430	" "	50	"	.005	.03	"
430-435	" " to 433, altered granite with fine-grained sulfides 433 to 435'	80	"	.015	.04	"
435-440	Altered granite with fine-grained sulfides to 437', fresh granite 437 to 440'	50	"	.005	.04	"
440-445	Fresh granite	30	"	Tr	.73	"
445-450	Fresh granite, patches of alteration	30	"	.005	.69	"
450-455	Altered granite, fine-grained sulfides	35	"	.025	.37	"
455-460	Fresh granite	95	"	.005	.07	"
460-465	" "	55	"	Tr	.05	"
465-470	" "	60	"	Tr	.03	"
470-475	" " to 474', aplite 474 to 475'	40	"	Tr	.03	"
475-480	Aplite	35	"	.005	.04	"
480-485	"	30	"	.005	.10	"

Footage	Mineralogy	% Core Recovery	% WO	Oz. Au	% Sb	Size Core
485-490	Aplite and fresh granite	35	Nil	.005	.06	EX
490-495	Mainly altered granite with fine-grained sulfides; patches fresh granite	25	"	.020	.06	"
495-500	Mixed altered and fresh granite	30	"	.010	.06	"
500-505	Essentially fresh granite	30	"	Tr	.06	"
505-510	Slightly altered granite	15	"	Tr	.06	"
510-515	" " "	10	"	.005	.01	"
515-520	" " "	10	"	Tr	.02	"
520-525	" " "	30	"	Tr	.03	"
525-530	Fresh granite except altered at 528' and 1/8" stringer stibnite	50	"	Tr	.19	"
530-535	Fresh granite. 1/8" stringer stibnite at 530'	80	"	Tr	.11	"
535-540	Fresh granite.	90)	"	Tr	.04	"
540-545	" "	60)	"			"
545-550	Mixed fresh and altered granite. Stibnite at 550'	45	"	Tr	.07	"
550-555	" " " " "	45	"	.005	.07	"
555-560	" " " " "	20)	"			"
560-565	" " " " "	15)	"			"
565-570	Essentially fresh granite	35)	"	Tr	.04	"
570-575	" " "	35)	"			"
575-580	" " "	35)	"			"
580-585	" " "	25)	"	.005	.07	"
585-590	Aplite and fresh granite	25)	"			"
590-595	" " " "	25)	"			"
595-600	" " " "	30)	"			"
600-605	" " " " Minor alteration	25)	"			"
605-610	" " " " " "	30)	"	.005	.02	"
610-613	Fresh granite	65)	"			"

End of hole at 613 feet.

*Note-all assays are sludge assays except as noted below.
Nil values of WO_3 determined by lamping.
All core and sludges lamped.

	Sludge Assays		Core Assays		Weighted Average	
Footage	Au	Sb	Au	Sb	Au	Sb
230-235	.005	.92	.005	.95	.005	.93
235-240	No Sludge 233-242'		.005	.32	.005	.32
240-245	.005	.66	.075	.13	.035	.41
245-250	.010	2.84	.005	.38	.010	2.60
250-255	.010	.21	Tr	.86	.010	.29

DIAMOND DRILL HOLE NO. MC-63

Driller's Notes

Date Start: 5/24/55
Finish: 8/14/55

Driller: Manning
Helpers: Barkell
Anderson
R. Smith

Footage	Remarks
0 - 65	Pipe driving. Blasted several boulders.
65 - 70	Drilled, cemented.
70 - 75	Cement did not set. Drilled to 75', cemented.
75 - 80	Drilled to 80', cemented.
80 - 85	Drilled to 85', cemented. Decomposed granite.
85 - 90	Drilled 15' cement and on to 90'. Cemented.
90 - 95	Drilled 20' cement and on to 95'. Cemented. Drilled out cement and cased to AX.
95 -115	Quartzite and sand. Cemented.
115-125	Drilled 25' cement and on to 125'. Quartzite and fresh granite. Brownish-grey sludge. Cemented.
125-135	Drilled 11' cement and on to 135'. Fresh granite and sand pockets. Hole caving from 119'. Cemented.
135-145	Drilled 15' cement and on to 145'. Either decomposed granite or sand. Cemented.
145-155	Drilled 10' cement and on to 155'. No core -- sand or decomposed granite. Brown sludge.
155-165	Weathered and fresh granite. Brown to grey sludge. Cemented.
	Drilled 20' cement. Hole went crooked. Cemented.
165-180	Drilled 15' cement and on to 180'. Broken fresh granite. Sludge varied in color from grey to rusty brown. Lots of sandy sludge. Cemented.
	Drilled 25' cement and hole went crooked. Cemented.
180-185	Drilled 18' cement and on to 185'. Fresh, weathered granite. Sludge varied from milky grey to rusty brown.
185-195	Weathered fresh granite. Brownish grey sludge.

Footage	Remarks
195-200	Fresh granite, slightly weathered. Harder and very broken. Sludge varied from grey to milky grey.
200-205	Fresh granite. Very broken. Sludge varied from brownish grey to milky.
205-210	Fresh granite. Greenish-grey sludge. Very soft and broken. Hole caving at 201' and at 185 to 195'. Lost some sludge water. Cemented.
	Drilled 30' cement.
210-215	Lots of talc. Milky and grey sludge.
215-220	Hard. Milky sludge.
220-223	Very hard. Milky and grey sludge. Core blocked.
223-235	Milky to blue sludge. Lost sludge water from 232-233'.
235-242	No sludge return. Hole caving at 118'.
	Cased to EX at 242'. Cemented casing in.
	Drilled 7' cement.
242-245	Milky blue sludge.
245-250	Heavy gouge. Very soft. Sludge turned from milky to dark blue at 247'.
250-255	Some gouge. Very soft and broken. Blue to grey sludge.
255-275	Some gouge. Very soft and broken. Grey sludge. Lost most of sludge water at 270½'. Used sawdust.
275-280	Some gouge. 50% sludge water return. Cemented.
	Drilled 42' cement.
280-285	Gouge. Lost all sludge water at 282'. Cemented.
	Cement did not set.
285-288½	Some gouge. No sludge. Put 1/2 gallon sawdust in hole, got 90% water return.
288½-295	Very soft. Gouge. Milky and grey sludge. Cemented.
	Drilled 15' cement.
295-300	Soft and gougy. Milky and grey sludge.
300-305	Gougy. Thick milky sludge.

Footage	Remarks
305-310	Gougy. Thick milky and grey sludge.
310-315	Very soft. Thick light-grey sludge.
315-320	Dark grey sludge to 319'. Light grey sludge 319 to 320'.
320-325	Very broken, some gouge. Medium to light grey sludge. 50% water return.
325-330	Very broken, some gouge. Milky blue and medium grey sludge. 90% water return.
330-335	Very soft. Milky grey sludge. Good water return.
335-340	Very soft. Sludge turned dark grey at 336'. Good water return.
340-350	Gougy and very soft. Thick dark grey and light grey sludge. 50% water return to 345'. 90% from 345 to 350'.
350-360	Very soft and gougy. Grey and blue-grey sludge. Poor water return to 353', very good from 353 to 360'.
360-369	Very soft and gougy. Sludge return very good. Sludge varied in color from thick dark grey to light grey, occasionally milky blue grey.
369-380	Soft and gougy. Very good sludge return. Milky grey sludge. Hole caving from 360 to 380'.
380-390.	Had to wash and drill from 350 to 380'. Sludge turned from grey to blue-grey at 384' and back to grey at 388'. Had trouble pulling rods.
390-400	Washed and drilled 30' to bottom. Soft and gougy. Medium grey sludge. 60% sludge water return.
400-405	Washed and drilled from 350 to 400'. Some gouge. Poor sludge return. Hole caving badly. Cemented.
	Cement did not set. Washed and drilled to bottom and cemented again.
	Hit cement from 347 to 355'.
	Hole open from 355 to 364' -- no cement. Had gouge and cave at 364'. Drilled to 377' and cemented.
	Hole evidently making water; cement will not set. Drilled and washed from 335 to 405'.
	Pulled 242' EX casing and reamed from 242 to 400'. Cased to EX to 400'.
405-410	Fresh granite and gouge. Grey and milky-grey sludge.

Footage	Remarks
410-420	Some gouge. Thick grey and milky-grey sludge. Very broken.
420-434	Hard and broken fresh granite. Milky-grey sludge.
434-438	Altered. Milky-blue sludge.
438-449	Fresh. Sludge milky-blue from 445 to 448. Soft streaks.
449-454	Mixed fresh and altered granite. Some sulfides and antimony. Blue-grey sludge.
454-479	Fresh, hard and broken. Milky grey sludge.
479-484	Very soft. Milky grey sludge.
484-491	Fresh granite. Milky-blue sludge. Some gouge.
491-494	Altered. Very soft and gougy. Bluish-grey sludge.
494-505	Fresh granite and gouge. Very soft and broken. Thick grey sludge.
505-520	Very soft fresh granite. Thick milky-grey sludge.
520-525	Fresh granite and gouge. Grey sludge.
525-529	Fresh granite. Grey sludge. Stringer of stibnite.
529-535	Fresh granite with altered seams. Milky-blue and grey sludge. stringer of stibnite, some sulfides.
535-542	Fresh granite. Milky-grey sludge.
542-547	Fresh granite. Grey sludge.
547-554	Slightly altered granite. Sulfides and antimony. Very soft and broken, some gouge. Thick blue-grey sludge.
554-565	Fresh granite with altered seams. Very soft and gougy. Very thick blue-grey sludge.
565-570	Fresh granite. Very soft to 567 feet, harder to 570 ft. Medium-grey sludge.
570-580	Fresh granite; soft to 575 ft., harder 575 to 580 ft. Grey sludge, thick sludge from 570 to 575 ft.
580-585	Fresh granite and gouge. Soft in streaks. Thick grey sludge.
585-595	Fresh granite with gouge streaks. Thick grey and blue-grey sludge.
595-604	Fresh granite; some sulfides. Very soft to 600 ft., much harder from 600 to 604 ft. Grey sludge.

Footage	Remarks
604-609	Fresh granite, some gouge. Grey sludge.
609-613	Fresh granite, a few soft streaks. Grey sludge.

End of hole

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	1553.90	40,001.32	41,555.22	1553.90	40001.32	41555.22
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~xxxx~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		514.00	514.00		514.00	514.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,014.99	1,014.99		1014.99	1014.99
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	97.50	1,730.25	1,827.75	97.50	1730.25	1827.75
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	1651.40	48,135.67	49,787.07	1651.40	48135.67	49787.07

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 8/25/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1238.55

Signature [signature]
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E4453 in accordance with the terms of the contract.

Signature /S/ John D. Bardell Title Metallurgist Date 4/30/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Wing G. Agnew Title Acting Exec Officer Date 5/21/56

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 Docket No. DMEA2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Airport	1'	1135.20	240	18,640.93	3941	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'			7,758.00	862	9.00	215	9.00
Ream & Case	1'	418.70	158	2,435.35	919	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		97.50		5,293.69				
Total Distributed Costs		1651.40		46,848.91				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		1651.40		49,787.01				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 8/25/55 Operator Bradley Mining Co.

Per G. Weston Title Assistant Secretary

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Remarks:

(For Government use only)

1S1 John D Bardell

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

BRADLEY MINING CO.

Stibnite, Idaho

RECEIVED
MAY 2 1 1956

Monthly Supporting Detail

Contract Idm-E 453

July, 1955

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-63	240 ft. at $4.73	$1,135.20

Reaming:

Hole MC-63	158 ft. at $2.65	418.70
		$1,553.90

Item 7 - Miscellaneous

Analytical Work

43 Antimony Assays at $1.50	$64.50	
44 Gold Assays at $0.75 (Exceeds contract estimated maximum)	33.00	
Total for "Other", Form MF-104A		$97.50

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR-

August 11, 1955

DMEA Progress Report for July, 1955

Contract Idm-E 453

Progress - Scout Ridge Area

Diamond drill hole MC-63 was continued in July. The hole was drilled from 165 to 405 feet, for a total advance of 240 feet. In addition, 158 feet of reaming was done (from 242 to 400 feet).

Average advance in July was 9.2 feet per machine-shift. Twenty-six days were worked on a single shift basis. The hole was cemented eleven times.

Results - Scout Ridge Area

Hole MC-63 was in granite throughout the distance drilled in July. The granite was fresh down to 180 feet and then partially altered to 220 feet. At 220 feet an altered, mineralized zone was entered. The zone, with occasional patches of fresh granite, continued to about 380 feet. Areas of heavy gouge were drilled.

The altered, mineralized zone carried but minor amounts of gold. Stibnite was present in the core from 223 to 251 feet. The stibnite-bearing area assayed as follows:

220-225 feet	0.12%	Antimony
225-230 "	0.35"	"
230-235 "	0.93"	"
235-240 "	0.32"	"
240-245 "	0.41"	"
245-250 "	2.60"	"
250-255 "	0.29"	"
255-260 "	0.09"	"

Drilling continued in August.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Form MF-24 (Rev.)
(April 1952)

W

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June 1955 Docket No. DMEA 2636 Contract No. Idaho 153
Operator's Name Bradley Mining Co. Minerals Antimony
Address - Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	896.00	39,105.32	40,001.32	896.00	39105.32	40001.32
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor Rock Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Truck Fuel	10.92	503.08	514.00	10.92	503.08	514.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,014.99	1,014.99		1014.99	1014.99
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	6.75	1,723.50	1,730.25	6.75	1723.50	1730.25
Payroll Taxes						
Accounting Insurance		500.00	500.00		500.00	500.00
(8) Contingencies (specify): Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
Totals	913.67	47,222.00	48,135.67	913.67	47222.00	48135.67

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 2/14/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 685-25

Signature [signature] (Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785 (See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6453 in accordance with the terms of the contract.

Signature 1st John D Burdill Title Metallurgist Date 5/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Wing G Agnew Title acting Exec. Officer Date 5/21/56

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1955 Docket No. DMEA 2636 Contract No. Idaho-7.153
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drilling:								
Airport	1'	473.00	100	17,505.73	3701	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Harmonsay Cr.	1'			2,986.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	423.00	47	7,758.00	862	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		17.67		5,196.19				
TOTAL DISTRIBUTED COSTS		913.67		45,197.51				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		913.67		48,135.67				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 7/14/55 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

From BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

For—

RECEIVED
MAY 8 1956

July 3, 1955

DMEA Progress Report for June, 1955

Contract Idm-S 453

Progress - Scout Ridge Area

Diamond drill hole MC-63 was continued in June. Pipe was driven through overburden for 47 feet (down to 65 feet) and the hole was drilled an additional 100 feet (down to 165 feet).

The depth at which the hole entered bedrock was impossible to determine -- it was probably somewhere between 60 and 150 feet. Pipe driving was extremely slow, so the method of drilling five or ten feet and cementing was adopted to speed up progress. Average pipe driving advance was 3.6 feet per shift; average drilling advance was 7.7 feet per shift. Overall average advance for the month was 5.7 feet per shift.

Twenty-six days were worked on a single shift basis. The hole was cemented eleven times. At the end of the month ground conditions remained bad and progress remained slow.

Results - Scout Ridge Area

Hole MC-63 was alternately in quartzite and fresh granite. Sludges were collected starting at 100 feet -- metal values were practically absent (averages: 0.005 oz/ton gold and 0.10% antimony). If the Scout Ridge mineralized shear zone continues the trend indicated in previous drilling, it should be intersected at somewhere between 170 and 200 feet in hole MC-63.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR-

BRADLEY MINING CO.

Stibnite, Idaho

RECEIVED
MAY 31 1956

Monthly Supporting Detail

Contract Idm-E 453

June, 1955

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-63	100 ft. at $4.73	$473.00

Driving Pipe:

Hole MC-63	47 ft. at $9.00	423.00
		$896.00

Item 3 - Operating Materials and Supplies

Miscellaneous -- Core Boxes	$ 10.92

Item 7 - Miscellaneous

Analytical Work

3	Antimony Assays at $1.50	$4.50	
3	Gold Assays at $0.75	2.25	6.75
	Total for "Other", Form MF-104A		$ 17.67

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	162.00	38,943.32	39,105.32	162.00	38943.32	39,105.32
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		503.08	503.08		503.08	503.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	281.93	733.06	1,014.99	281.93	733.06	1014.99
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		1,723.50	1,723.50		1723.50	1723.50
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	443.93	46,778.07	47,222.00	443.93	46778.07	47222.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 6/20/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 332.95

Signature MAP
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ John D. Pardill Title Metallurgist Date 6/27/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Goldsk Title Mining Engr Date 6/27/55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MT-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1955 Docket No. DMEA 2636 Contract No. Idm-F 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Airport	1'			17,032.73	3601	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	162.00	18	7,335.00	815	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other				5,178.52				
Total Distributed Costs		162.00		44,283.84				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		281.93		1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		443.93		47,222.00				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 6/20/55 Operator Bradley Mining Co.

Per E O Watson Title Assistant Secretary

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

RECEIVED
MAY 31 1956

June 13, 1955

DMEA Progress Report for May, 1955

Contract Idm-E 453

Scout Ridge

Diamond drilling in the Scout Ridge area was resumed for the first time since drilling was recessed in January, 1955.

Hole MC-63 was started in May. It was collared some 400 feet north of hole MC-62 and is being drilled due east at an inclination of minus 49°. The hole is located so as to cut the wide mineralized shear zone previously located in holes MC-58, MC-60 and MC-62.

The hole was collared in overburden and 18 feet of pipe had been driven through overburden by the end of the month. Ten days were worked on a single shift basis (most of this time was required to prepare the drill site, move and set up the drill and tripod, and lay water pipe). Average pipe driving advance was 1.8 feet per machine-shift, including moving and setting-up time.

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

May, 1955

Item 1 - Unit Costs, Diamond Drilling

Driving Pipe

Hole MC-63	18 ft. at $9.00	$162.00
	(In excess of contract pipe driving footage)	

Item 6 - New Buildings, Improvements, Etc.

17 hours tractor work at $8.00	$136.00	
726 feet 1-inch water pipe at $0.201	145.93	
		$281.93

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

MAY 31 1956

Month of January, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	165.55	38,777.77	38,943.32	165.55	38777.77	38943.32
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		503.08	503.08		503.08	503.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		733.06	733.06		733.06	733.06
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	27.00	1,696.50	1,723.50	27.00	1696.50	1723.50
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	192.55	46,585.52	46,778.07	192.55	46585.52	46778.07

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 3/21/55 *Payee Bradley Mining Co.

Per G Allerton Title Assitant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 144 41

Signature M2P
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6453 in accordance with the terms of the contract.

Signature 1st John D Bardill Title Metallurgist Date 6/29/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W Zoldok Title Mining Eng Date 6/29/55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drillings:								
Airport	1'	165.55	35	17,032.73	3601	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'			7,173.00	797	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		27.00		5,178.52				
TOTAL DISTRIBUTED COSTS		192.55		44,121.84				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				733.05				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		192.55		46,778.07				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 3/31/55 Operator Bradley Mining Co.

Per H Weston Title Assistant Secretary

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS:

(Instructions on reverse)

(For Government use only)

151 John D Burdick

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

RECEIVED
MAY 6 1955

February 26, 1955

DMEA Progress Report for January, 1955

Contract Idm-E 453

Progress

Scout Ridge Area

Diamond drill hole MC-62, drilled 475 feet in December, was completed to a length of 510 feet in January. Drilling conditions were extremely unfavorable; seven machine-shifts were spent actually drilling or attempting to drill this final 35 feet. In addition, six shifts were spent pulling casing, tearing down, and storing equipment. Average advance was only 2.7 feet per machine-shift, including moving time.

Two factors contributed to the extremely slow progress: The nature of the rock and the weather. From 340 feet to the bottom of the hole the rock was very soft and caving, making drilling difficult. Low temperatures resulted in frozen water pipes, causing considerable down-time.

Further drilling under the contract will be recessed until next spring.

The log of hole MC-62 is included with this report.

Results

The final 35 feet of hole MC-62 was in altered granite and biotite schist, with only low antimony and gold values.

Certain sections of core from hole MC-62 were assayed to check the assays of sludges that might have been salted by caving from higher in the hole. The only significant difference between core and sludge assays was noted from 370 to 375 feet. For this five-foot section, the core assayed 2.02% antimony while the sludge assayed only 0.33% antimony.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Coordinates: 23,919 N
23,011 S

Elevation: 6518

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-62

Bearing: N 75° E

Inclination: Minus 40°

Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 40	Fractured and decomposed quartzite. Sand.	15	No sludge samples			NX RX at 20'
40 - 65	Fractured quartzite	30	Nil	Tr	Nil	"
65 - 90	Quartzite, except aplite 73 to 77 ft.	15	"	.005	.01	"
90 -115	" " " 95 to 99 ft. & 104-106 ft.	25	"	.005	.01	"
115-140	" " " 135 to 137 ft.	40	"	.005	.03	"
140-165	"	25	"	.010	.02	"
165-190	Quartzite to 170 ft, muscovite schist 170 to 174 ft., quartzite 174 to 190 ft.	60	"	.005	.02	"
190-210	Quartzite to 205 ft., partially altered granite 205 to 209 ft., quartzite 209 to 210 ft.	70	"	Tr	.03	AX at 200'.
210-230	Altered aplite and granite to 216'; quartzite 216-218'; altered aplite and granite 218-230'. Minor fine-grained sulfides.	40	"	.020	.02	"
230-250	Quartzite	35	"	.020	.02	"
250-255	"	45	"	.025	.03	"
255-260	"	35	"	.025	.12	"
260-265	" Some stibnite and pyrite	55	"	.025	.44	"
265-270	" " " " "	5	"	.015	.50	"
270-275	" " " " "	30	"	.025	.77	"
275-280	" " " " "	5	"	.020	.64	"
280-285	" " " " "	10	"	.025	.71	"
285-290	" " " " "	90	"	.020	.51	"
290-295	" " " " "	80	"	.030	.42	"
295-300	" No stibnite	85	"	.025	.38	"
300-305	"	60	"	.015	.10	"
305-310	"	95	"	.020	.18	"
310-315	"	75	"	.020	.09	"
315-320	"	85	"	.015	.10	"
320-325	"	75	"	.015	.10	"
325-330	Quartzite to 329'; dark grey gouge and granite breccia 329-330'	80	"	.015	.17	"

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
330-335	Completely altered granite; gouge and breccia	55	Nil	.030	.15	AX
335-340	" " " " " "	25	"	.020	.13	"
340-345	" " " " " "	80	"	.025	.21	"
345-350	" " " " " "	25	"	.020	.11	"
350-355	" " " " " "	30	"	.025	.18	"
355-360	No core	0	"	.025	.11	"
360-365	Completely altered granite. Brecciated.	15	"	.020	.09	
365-370	" " " " Fine-gr.sulfides	70	"	.030	.18	"
370-375	" " " Fair stibnite (sludge)	65	"	.035	.33	"
	(core)			.025	2.02	
375-380	" " " Minor stibnite (sludge)	65	"	.025	.23	"
	(core)			.040	.12	
380-385	" " " fine-grained sulfides (sludge)	80	"	.030	.21	"
	(core)			.020	.16	
385-390	" " " Some stibnite (sludge)	40	"	.020	.23	"
	(core)			.020	.67	
390-395	Grey-colored schistose quartzite (sludge)	55	"	.010	.18	"
395-400	" " " " to 396'. Completely altered granite, minor stibnite 396-400' (sludge)	65	"	.050	.17	"
	(core)			.050	.10	
400-405	Completely altered granite, some brecciation, fine-grained sulfides (sludge)	95	"	.035	.09	"
	(core)			.020	.08	
405-410	Completely altered granite, some brecciation, fine-grained sulfides	75	"	.040	.13	"
410-415	Completely altered granite, some brecciation, fine-grained sulfides. 3" fresh granite at 414'	85	"	.050	.26	"
415-420	Completely altered granite, some brecciation, fine-grained sulfides	10	"	.035	.13	"
420-425	Completely altered granite except patch fresh granite 422-423'	30	"	.005	.09	"
425-430	Completely altered granite	55	"	.020	.09	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
430-435	Completely altered granite	5	Nil	.030	.05	NX
435-440	Nearly completely altered granite	5	"	.010	.04	"
440-445	Altered granite; patches fresh granite	25	"	.005	.11	"
445-450	Biotite schist	10	"	.020	.10	"
450-455	" "	15	"	.010	.08	"
455-460	" " to 456'. Completely altered granite 456-460'	20	"	.050	.07	"
460-465	Altered granite and aplite	25	"	.045	.09	"
465-470	" "	20	"	.020	.08	"
470-475	" " " " to 473'; essentially fresh granite 473-475'	30	"	.025	.06	"
475-480	Altered aplite; minor stibnite	40	"	.015	.20	"
480-485	" " " "	20	"	.030	.09	"
485-490	" " " "	20	"	.015	.13	"
490-495	" "	25	"	.015	.19	"
495-500	" " to 499'. Biotite schist 499-500'	25	"	.015	.37	"
500-505	Biotite schist	20	"	.055	.29	"
505-510	Mixed biotite schist, altered granite and aplite	20				

End of hole at 510 feet.

Note: All assays are sludge assays unless otherwise indicated. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Sludge samples were probably very unreliable from 370 feet to the bottom of the hole, due to caving from higher in the hole.

DIAMOND DRILL HOLE NO. MO-62

Driller's Notes

Date Start: 12/1/54
Finish: 1/8/55

Drillers: Manning, Barkell
Helpers: Tyger, Washington

Footage	Remarks
0 - 20	Very broken quartzite. No sludge. Cased to BX at 20 feet.
20 - 35	No core, no sludge. Sand. Cemented.
35 - 40	Quartzite and sand. No sludge. Cemented.
40 - 55	Quartzite and sand. White sludge.
55 - 74	Very broken quartzite. Sand seams. White sludge.
74 - 80	Rusty granite with quartzite. Rusty-white sludge.
80 - 85	Sand. Brown sludge.
85 -115	Quartzite and sand. Light grey sludge.
115-120	Granite and sand. Grey and brown sludge.
120-140	Granite and quartzite. Grey sludge.
140-155	Quartzite and granite, very broken. Grey sludge.
155-160	Quartzite, granite and sand. Hole caving slightly. Brownish sludge.
160-165	Quartzite and sand. Very broken. Hole caving. Grey sludge.
165-170	Quartzite and granite. Dark blue and grey sludge.
170-174	Quartzite and granite. Heavy in mica. Dark blue sludge.
174-180	Quartzite. Grey sludge.
180-189	Quartzite and granite. Very hard. Grey sludge.
189-200	Quartzite. Very hard and broken. Grey sludge. Cased to AX at 200 feet.
200-210	Quartzite and granite. Some gouge. Grey sludge.
210-224	Altered granite. Soft. Blue-grey sludge.
224-230	Altered granite with gouge. Very soft. Hole caving slightly 225 to 230 feet. Grey sludge.
230-235	Slightly altered granite. Very soft, with gouge. Grey sludge.

Footage	Remarks
235-245	Quartzite, some granite. Grey sludge.
245-250	Quartzite. Hard and broken. Grey sludge.
250-260	Quartzite. Mica. Blue and grey sludge.
260-265	Quartzite. Grey sludge.
265-270	Very soft and gougy. Grey sludge.
270-275	Quartzite and altered granite. Some antimony. Blue-grey sludge.
275-285	Quartzite and gouge. Hole caving at 278 feet. Grey sludge.
285-290	Altered granite and quartzite. 285 to 288 ft. was very hard, 288 to 290 ft. was softer. Blue-grey sludge.
290-295	Quartzite. Some antimony. Very hard. Blue sludge.
295-298	Quartzite. Very hard. Blue sludge.
298-300	Quartzite. Mica. Bluish-grey sludge.
300-305	Quartzite. Mica. Dark grey sludge.
305-310	Quartzite, altered granite. Some antimony. Grey sludge.
310-329	Quartzite, altered granite. Medium hard. Grey sludge.
329-330	Gouge. Blue sludge.
330-335	Altered granite. Very soft and broken. Dark grey sludge.
335-340	Altered granite and gouge. Very soft. Grey sludge.
340-350	Altered granite and gouge. Very soft. Grey sludge.
350-355	Mostly talc and gouge, a little altered granite. Hole caving at 345 feet. Grey sludge.
355-360	No core. Talc and gouge. Hole caving from 345 ft. Blue-grey sludge.
360-365	Sulfides and gouge. Blue sludge. Some core at 363 feet.
365-370	Altered granite. Very soft, some gouge. Blue-grey sludge.
370-375	Three to 4 feet of sand in bottom of hole - had to wash to bottom. Altered granite, very soft. Some antimony. Blue and grey sludge.

Footage	Remarks
375-380	Had to wash to bottom of hole - 3 feet of sand. Altered granite, soft. Grey sludge.
380-385	Altered granite, soft. Blue and grey sludge. Had to wash through 5 feet of sand to bottom of hole.
385-390	Sulfides and gouge. Soft and broken. Blue-grey sludge. Washed and drilled 5 feet to bottom of hole.
390-395	Washed and drilled 6 feet through sand. Hole caving. Altered granite and gouge. Very soft and broken. Grey sludge.
395-400	Washed and drilled 6 feet to bottom. Caving. Sulfides. Lost some core when pulling. Hole caved back of core barrel. Cemented 12 gallons.
400-405	Cement did not set. Washed and drilled 25 feet of cement. Altered granite, sulfides. Bluish-grey sludge. No cave noticed while pulling.
405-410	Washed rods 15 feet to bottom of hole. Sulfides. Lots of dark grey sludge. Gouge washing in hole from above.
410-415	Washed rods 15 feet to bottom of hole. Altered granite. Dark grey sludge.
415-420	Washed rods 15 feet to bottom. Altered granite and gouge. Dark blue sludge.
420-425	Washed 15 feet to bottom of hole. Altered and fresh granite. Gouge. Grey sludge.
425-430	Altered granite. Gouge. Dark blue sludge.
	Cased to EX at 430 feet.
430-450	Altered granite, very soft. Grey sludge.
450-460	Altered granite, very soft. Blue-grey sludge.
460-465	Had to wash and drill 18 feet to bottom of hole. Altered granite, very soft. Grey sludge.
465-470	Fairly tight to bottom again. Altered granite, very soft and gougy. Blue sludge.
470-475	Had to wash 21 feet to bottom. Quartz and granite. Dark blue sludge.
	Cemented hole -- 18 gallons cement.
	Nine shifts spent getting to bottom of hole through cave, recementing, and maintenance on drill.

Footage	Remarks
475-480	Quartzite and quartz. Grey and white sludge.
480-490	Hit some cave at 470 feet. Had to wash and drill 4 feet to bottom. Quartzite and quartz. Bluish-grey sludge.
490-500	Quartzite and mica. Blue and grey sludge.
	Hole caved badly from 449 to 460 feet.
500-510	Aplite and schist. Very soft and gougy. Light grey sludge.
	Had lots of trouble getting out of hole. Cave from 460 to 447 feet.
	End of hole.

XXXXXXXXXXXXXXXXX
1201 N. Division St.
Spokane 2, Washington
March 23, 1955

Bradley Mining Co.
1022 Crocker Building
San Francisco 4, California

Re: Contract Idm-2453
Monthly operating report for
January 1955

Gentlemen:

The subject operating report has been received and processed for payment. However, payment of this MY-104 is being held up as the project was recessed January 8, and we understand work will not be resumed until spring.

When project work is temporarily discontinued we are obliged to withhold a portion of the Government's contribution to the cost until work is resumed. This is standard procedure for all contracts.

By Field Team, Region I
Northwest District

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

cc: DMEA (2)
USGS (2)

Wing G. Agnew, Member
U. S. Bureau of Mines

Form MF-504 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	2216.75	36,531.02	38,777.77	2216.75	36531.02	38777.77
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ xxxx Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		503.08	503.08		503.08	503.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		733.06	733.06		733.06	733.06
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	121.50	1,575.00	1,696.50	121.50	1575.00	1696.50
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	2368.25	44,217.27	46,585.52	2368.25	44217.27	46585.52

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 1/25/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1776 19

Signature [signature]
(Authorized Certifying Officer)

Date 2-4-55 Vou. No. 1428

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E4453 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr Date 1-27-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 1-28-55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 195 4 Docket No. DMEA 2636 Contract No. Idm-E 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Drifting: xxxx Airport	1'	2246.75	475	16,067.18	3566	4.73	3000	4.73
Crosscutting: xxxxxxx SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Raising: xxxx Hennessey Cr.	1'			2,980.60	585	5.10	500	5.10
Shafts: xxxx North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping: xxxxxx Driving Pipe	1'			7,173.00	797	9.00	215	9.00
Trenching: xxxxxx Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		121.50		5,151.52				
Total Distributed Costs		2368.25		43,929.29				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs				733.06				1,280.00
New Buildings, Improvements, etc.				1,923.17				3,038.00
Contingencies								
Total Costs		2368.25		46,585.52				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 1/25/61 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

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In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

December, 1954

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-62 475 ft. at $4.73			$2,246.75
Item 2 - Labor and Supervision			
Technical Services	$81.61		
(none allowable)			0.00
Item 7 - Miscellaneous			
Analytical Work			
54 Antimony Assays at $1.50		$81.00	
54 Gold Assays at $0.75		40.50	121.50
(Exceeds contract estimated maximum)			
Total for "Other" Form MF-104-A			$ 121.50

January 13, 1955

DMEA Progress Report for December, 1954

Contract Idm-E 453

Progress

Scout Ridge Area

Diamond drill hole MC-62 was collared at the north end of Scout Ridge, 250 feet north of hole MC-60, and was drilled north 75° east, the same bearing as hole MC-60. The inclination of the hole was minus 40°. At the end of the month the hole was down 475 feet.

While all previous drilling under the contract was done by Nichols and Thompson Core Drilling Co., hole MC-62 was drilled by the Bradley Mining Co. Thirteen days were worked on a single shift basis, and twelve days were worked on a two-shift per day basis. Average advance was 12.8 feet per machine-shift.

Results

Hole MC-62 was located so as to cut the ore zone previously found in holes MC-58 and MC-60, about 250 feet north of the ore zone in hole MC-60. The hole was collared in fractured and sandy quartzite, and was in quartzite with patches of granite to 329 feet. The hole cut low-grade stibnite in quartzite from 260 to 300 feet -- antimony averaged 0.55 per cent for this 40 feet. Gold values were very low.

At 329 feet the hole entered the shear zone, in granite, that borders the east side of Scout Ridge. From 329 to 425 feet the granite was intensely altered and sheared, but metal values were very low. Sludge samples averaged only 0.17% antimony and 0.028 oz/ton gold. The shear zone to the south (in holes MC-58 and MC-60) was about 60 feet wide and contained an ore zone about 30 feet wide that averaged 1.11% antimony and 0.112 oz/ton gold. In hole MC-62, the shear zone was much wider (96 feet) but the ore zone was absent, or, if present, was cut in a very lean section.

At 425 feet hole MC-62 began to pass out of the shear zone proper, and was in alternately altered and partially altered granite to 475 feet. Drilling continued in January.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~[illegible]~~ Short Form Contracts:						
Drilling	4391.27	32,139.75	36,531.02			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~[illegible]~~ Consultant		1,150.00	1,150.00			
Supervision						
Technical Services		1,000.00	1,000.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	85.68	417.40	503.08			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	160.00	573.06	733.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	139.50	1,435.50	1,575.00			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	475.00	500.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	4801.45	39,415.82	44,217.27	4801.45	39415.82	44217.27

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 12/31/54 *Payee Bradley Mining Co.

Per G. Winton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3601.08

Signature M. A. P.
(Authorized Certifying Officer)

Date 2-4-55 Vou. No. 1428

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ Webster S. Anderson Title Mining Engr Date 12/29/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Goldoft Title Mining Engr Date 12/29/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1954 Docket No. DMEA 2636 Contract No. Idm-E 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
~~Drifting~~ Airport	1'	2525.82	534	14,620.43	3091	4.73	3000	4.73
~~Crosscutting~~ SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessey Cr.	1'			2,988.60	586	5.10	500	5.10
~~Shafts~~ North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Driving Pipe	1'	1566.00	174	7,173.00	797	9.00	215	9.00
~~Trenching~~ Ream & Case	1'	299.45	113	2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		250.18		5,030.02				
TOTAL DISTRIBUTED COSTS		4641.45		41,561.04				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		160.00		733.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		4801.45		44,217.27				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 12/2/54 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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GPO 83-38475

COPY

December 10, 1954

DMEA Progress Report for November, 1954

Contract Idm-E 453

Progress

Scout Ridge Area.

Diamond drill hole MC-59, drilled 89 feet in October, was completed to a length of 135 feet.

Hole MC-60 was collared near the crest of Scout Ridge, about 160 feet north of the line of hole MC-58, and was drilled north 77° east (approximately parallel to hole MC-58) at an inclination of minus 45°. The hole was completed to a length of 488 feet.

Hole MC-61 was collared east of the supposed trend of the ore zone and drilled west at minus 47°. The hole was located approximately 300 feet north of the line of hole MC-60. The hole was stopped at 174 feet, while still in overburden.

The logs of holes MC-59, MC-60 and MC-61 are enclosed with this report.

Results

Hole MC-59 tested the granite-quartzite contact on the west flank of Scout Ridge. The fractured and weathered nature of the rock made the exact bedrock location impossible to determine, but bedrock was probably encountered at 60 to 65 feet. A strong zone of shearing and alteration was cut west of the quartzite contact, but metal values were very low. Quartzite was entered at 114 feet and continued to the end of the hole at 135 feet.

Hole MC-60 was located so as to cut the antimony-gold zone first discovered in hole MC-58, some 160 feet north of the ore zone in hole MC-58. The hole was collared in fractured and decomposed quartzite and was in quartzite to 66 feet. From 66 to 197 feet the hole was in granite and aplite which was altered and sheared from 100 to 160 feet, but carried very low metal values. The hole was again in quartzite from 197 to 302 feet, with minor stibnite occurrences (highest assay: 0.40% Sb).

At 302 feet the hole entered the rather wide zone of shearing and alteration that borders the east flank of Scout Ridge. The most intensely altered part of the zone was 53 feet wide (from 302 to 355 feet) but some alteration of the granite was evident to the bottom

of the hole, and for short distances gouge and intense alteration was present in the last part of the hole. As an example, five feet near the bottom of the hole (from 465 to 470 feet) carried abundant fine-grained pyrite and assayed 0.205 oz/ton gold.

Assay results of the ore zone proper in hole MC-60 were as follows:

	Oz/ton Au	% Sb
315-320 feet	.085	.72
320-330	.135	3.76
330-335	.105	.82
335-340	.135	.26
340-345	.095	.39

Assays of the entire 30-foot width shown above averaged 0.115 oz/ton Au and 1.62% Sb; these values are considerably higher than the values from hole MC-58 (the ore zone in hole MC-58 averaged 0.109 oz/ton Au and 0.61% Sb).

In an attempt to decrease the amount of "dead" drilling footage necessary to reach the ore zone from holes collared on Scout Ridge, hole MC-61 was collared east of the ore zone and drilled west. It was hoped that the overburden in the area would be shallow enough to allow drilling a series of short holes to explore the ore zone to the north of hole MC-60; hole MC-61 was located so as to intersect the ore zone about 300 feet north of the ore intersection in hole MC-60. The hole was unsuccessful for two reasons: the depth of overburden was greater than anticipated, and the hole flattened out at depth. The hole was abandoned after reach 174 feet and not yet having entered bedrock.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace

KGW/ja

COORDINATES 23,361 N
22,484 E
ELEVATION 6,430

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-59

BEARING: N 75° E
INCLINATION: Minus 50°
Page 1

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 - 65	Overburden; granite and quartzite boulders, gravel and sand to 24 feet, fresh granite to 65'. Overburden depth is uncertain — may have been anywhere from 24 to 65'. Decomposed and fractured nature of rock makes bedrock location impossible to determine; best guess is between 60 and 65 feet.		Nil			NX
65 - 70	Completely altered granite. Some fine-grained sulfides	60	"	.020	.05	"
70 - 75	" " " " " " "	30	"	.025	.01	"
75 - 80	" " " " " " " to 78'; partially altered 78 to 80'	20	"	.030	.02	BX from 79'
80 - 85	Altered aplite	15	"	.010	.02	BX
85 - 90	" "	35	"	.005	Nil	"
90 - 95	" " to 94'; mica schist 94 to 95'	45	"	Tr	.03	"
95 -100	Mica schist to 98'; altered granite 98 to 100'	80	"	Tr	.04	"
100-105	Partially altered aplite	20	"	.005	.01	"
105-110	" " " to 109'; quartzite to 110'	10	"	Tr	.03	"
110-115	Altered aplite to 114'; quartzite to 115'	25	Tr	Tr	.01	"
115-120	Quartzite	85	Tr	.010	.02	"
120-135	"	70	Nil	Tr	.03	"

End of hole at 135 feet

Note: All assays are sludge assays. Trace and Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 10/28/54; finished: 11/2/54

COORDINATES 23,672 N

23,028 E

ELEVATION 6,570

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-60

BEARING: N 77° E

INCLINATION: Minus 45°

Page 1

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 - 25	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	Nil	Tr	.03	BX
25 - 50	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	"	Tr	.05	BX at 34'
50 - 75	Quartzite to 66'. Aplite 66 to 75'. Iron-stained along fractures	25	"	Tr	.05	BX
75 -100	Granite, partially altered. Iron-stained along fractures	35	"	Tr	.03	"
100-110	Altered granite, patches of fresh granite	40	"	.005	.40	"
110-115	Altered granite. Some fine-grained sulfides	20	Tr	.030	.13	"
115-120	Altered granite. Minor fine-grained sulfides	40	Tr	.015	.07	"
120-125	" " " " " "	10	Tr	.010	.05	"
125-130	" " " " " "	40	Nil	.015	.06	"
130-135	" " " " " "					
	Patches of fresh granite	65	"	.010	.04	"
135-140	Altered granite. Minor fine-grained sulfides	90	"	.025	.06	"
140-145	" " " " " "	70	"	.005	.06	"
145-150	" " " " " "	55	"	.015	.15	"
150-155	" " " " " "					
	Patches fresh granite	90	"	.010	.11	"
155-160	Altered granite. Minor fine-grained sulfides					
	Patches fresh granite	85	"	.020	.11	"
160-185	Mixed altered and fresh granite	60	"	.015	.06	"
185-210	" " " " " to 197'. Quartzite					
	197 to 210'	45	"	.010	.06	"
210-235	Quartzite. Practically no core from 217 to 227'	35	"	.010	.13	"
235-260	" Stibnite at 243'	70	"	.020	.40	AX at 242'
260-285	"	95	"	.020	.16	AX
285-290	" Stibnite at 286'	60	"	.010	.27	"
290-295	"	50	"	.010	.10	"
295-300	"	80	"	.015	.04	"

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
300-305	Quartzite to 302'. Black gouge 302-303'. Completely altered granite, fine-grained sulfides 303 to 305'	60	No Sludge Sample			AX
305-310	Completely altered granite, fine-grained sulfides, some stibnite	25	Nil	.040	.25	"
310-315	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.055	.57	"
315-320	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.085	.72	"
320-330	Completely altered granite, fine-grained sulfides. Good stibnite	90	"	.135	3.76	"
330-335	Completely altered granite, fine-grained sulfides. Fair stibnite	95	"	.105	.82	"
335-340	Completely altered granite, fine-grained sulfides. Minor stibnite	95	"	.135	.26	"
340-345	Completely altered granite, fine-grained sulfides	95	"	.095	.39	"
345-350	" " " " " "	95	"	.025	.23	"
350-355	" " " " " "	80	"	.035	.28	"
355-360	Mixed altered and fresh granite	95	"	.035	.27	"
360-365	Mainly altered granite; patches fresh granite	90	"	.075	.27	"
365-370	Altered granite	75	"	.065	.16	"
370-375	Altered granite and gouge to 372'. Essentially fresh granite to 375'	70	"	.035	.19	"
375-380	Fresh and partially altered granite	35	"	.020	.09	"
380-385	" " " " "	60	"	.020	.47	"
385-390	Altered granite. Stibnite at 385'	35	"	.030	.35	"
390-395	" "	80	"	.040	.27	"
395-400	Partially altered granite	60	"	.020	.26	"
400-405	Gouge to 401', altered granite with patches fresh granite to 405'	75	"	.005	.19	"
405-410	Altered granite and gouge to 408', partially altered granite to 410'	40	"	.035	.23	"
410-415	Mainly fresh granite, patches of alteration	85	"	.010	.13	"
415-420	Fresh and partially altered granite	80	"	.005	.98	"
420-425	" " " " "	95	"	.010	.08	"
425-430	" " " " "	95	"	Tr	.05	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
430-435	Fresh and partially altered granite	70	Nil	.005	.06	AX
435-440	" " " " "	70	"	.005	.05	"
440-445	" " " " "	80	"	Tr	.05	"
445-450	" " " " "	50	"	Tr	.05	"
450-455	" " " " "	80	"	.005	.04	"
455-460	" " " " "	75	"	Tr	.03	"
460-465	" " " " " to 463'.					
	Altered granite with fine-grained sulfides to 465'	75	"	.005	.04	"
465-470	Completely altered granite with fine-grained sulfides	55	Tr	.205	.08	"
470-475	" " " " " " "					
	to 473'; partially altered granite to 475'	40	Nil	.100	.35	"
475-480	Partially altered granite	50	"	.030	.18	"
480-485	Fresh and partially altered granite	90	"	.025	.16	"
485-488	" " " " "	85	"	.040	.15	"

End of hole at 488 feet

Note: All assays are sludge assays. Trace and Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 11/2/54; finished: 11/13/54.

COORDINATES 24,028 N
23,378 E

ELEVATION 6,566

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-61

BEARING: N 86° W

INCLINATION: Minus 47°

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -174	Overburden. Mainly sand; some quartzite and granite boulders, and pebbles.		Nil			

End of hole at 174 feet.

Hole was abandoned before reaching bedrock when it became apparent that it had flattened out appreciably--inclination at the bottom of the hole was probably about minus 20° to 30° instead of the original minus 47°.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 11/14/54; finished: 11/22/54.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~XXXXXXXXXXXXXXXXXX~~
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

December 10, 1954

Mrs. Myrtle Purdy
Certifying Officer
DMEA Field Team, Region II
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mrs. Purdy:

As shown on the Operator's invoice for November 1954, the estimated cost for analytical work has been exceeded. As more analytical work will be required to complete the contract, you are authorized to use the Contingency funds for further analytical work.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Contract~~ Short Form Contracts:						
Drilling	4627.70	27,512.05	32,139.75			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant	30.00	1,120.00	1,150.00			
Supervision						
Technical Services	37.68	962.32	1,000.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	132.20	285.20	417.40			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		573.06	573.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	144.00	1,291.50	1,435.50			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	450.00	475.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	4996.58	34,419.24	39,415.82	4996.58	34,419.24	39,415.82

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 11/29/54 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3747 44

Signature [signature]
(Authorized Certifying Officer)

Date 12/10/54 Vou. No. 1365
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /S/ Webster S. Anderson Title Mining Engr Date 12/2/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 12/6/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1954 Docket No. DMEA 2636 Contract No. Idm-E 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

Drilling: OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
~~Drifting~~ Airport	1'	3760.35	795	12,094.61	2557	4.73	3000	4.73
~~Crosscutting~~ SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessey Cr.	1'			2,988.60	586	5.10	500	5.10
~~Shafts~~ North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
~~Scripping~~ Driving Pipe	1'	711.00	79	5,607.00	623	9.00	215	9.00
~~Stoping~~ Ream & Case	1'	156.35	59	1,717.20	648	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		368.88		4,779.84				
Total Distributed Costs		4996.58		36,919.59				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs				573.06				1,280.00
New Buildings, Improvements, etc.				1,923.17				3,038.00
Contingencies								
Total Costs		4996.58		39,415.82				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 11/29/54 Operator Bradley Mining Co.

Per G Olston Title Assistant Secretary

Remarks:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

October, 1954

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-58	(Hole was drilled to length of 490 ft., at which time drilling difficulties made it necessary to deflect the hole at 384 ft. From 384 ft. the hole was drilled to a length of 735 ft. Thus, total footage drilled was 841 ft., 56 ft. in September and 785 ft. in October).		
	785 ft. at $4.73	$3,713.05	
Hole MC-59	10 ft. at $4.73	47.30	
			$3,760.35

Driving Pipe:

Hole MC-59	79 ft. at $9.00		711.00
	(In excess of contract pipe driving footage)		

Reaming:

Hole MC-58	59 ft. at $2.65		156.35
			$4,627.70

Item 2 - Labor and Supervision

Consultant	2 days at $50.00 (Exceeds contract maximum allowable)	$ 100.00	$ 30.00
Technical Services	(Exceeds contract maximum allowable)	127.76	37.68

Monthly Supporting Detail
Page 2

Item 3 - Operating Materials and Supplies		
Miscellaneous - Core Boxes		132.20
Item 7 - Miscellaneous		
Analytical Work		
64 Antimony Assays at $1.50	$ 96.00	
64 Gold Assays at $0.75	48.00	
		144.00
($110.50 in excess of contract allowable amount for analytical work)		
Accounting		25.00
Total for "Other", Form MF-104A		$ 368.88

November 22, 1954

DMEA Progress Report for October, 1954

Contract Idm-E 453

Progress

Scout Ridge Area.

Diamond drill hole MC-58 in the Scout Ridge Area, drilled 56 feet in September, was completed to a length of 735 feet. The hole was drilled to 490 feet and was being reamed for casing when a shell and bit sheared off at 385 feet. All attempts to retrieve the shell and bit were unsuccessful, so the hole was deflected at 384 feet and drilling was resumed from that point. Thus, the total footage drilled was 841. The log of this hole is enclosed.

Hole MC-59, started in October, was collared about 125 feet west of the collar of hole MC-58 and was drilled N 75° E at an inclination of minus 50°. Pipe was driven to 79 feet and the hole was down to 89 feet at the end of the month.

Geology

Scout Ridge Area.

Hole MC-58 entered bedrock (quartzite) at 27 feet and was in quartzite with occasional tongues of granite and aplite (up to 19 feet wide) to 654 feet. The quartzite in the first part of the hole carried very minor stringers and disseminations of stibnite. At 654 feet the hole entered the shear zone that borders the east flank of Scout Ridge. From 654 to 717 feet the rock was intensely altered and sheared granite carrying fair amounts of sulfide mineralization. The granite was partially altered from 717 feet to the end of the hole at 735 feet.

The highest assay values from the shear zone were 0.61% antimony for 35 feet (from 680 to 715 feet) and 0.109 oz/ton gold for 30 feet (from 685 to 715 feet).

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COORDINATES: 23,396 N
22,607 E

ELEVATION: 6,445

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-58

BEARING: N 75° E

INCLINATION: Minus 20°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 20	Overburden. Fresh granite and quartzite boulders, gravel and sand		Nil			
20 - 30	Bedrock at 27 feet. Quartzite with minor pyrite and stibnite 27-30'		"	.005	.08	
30 - 35	Quartzite	90	"	.005	.02	NX
35 - 40	Quartzite and aplite with minor fine-grained sulfides	75	"	.025	.02	"
40 - 45	Aplite to 41', quartzite 41 to 45'	90	"	Tr	.01	"
45 - 50	Quartzite	85	"	.005	Nil	"
50 - 65	"	90	"	Tr	"	BX at 62'
65 - 80	"	85	"	Tr	.01	BX
80 - 95	"	90	"	Tr	.02	"
95 -110	"	90	"	Tr	.01	"
110-125	"	95	"	Tr	.01	"
125-140	"	95	"	Tr	.01	"
140-155	"	55	"	Tr	Nil	"
155-170	Quartzite to 158'; aplite 158 to 165'; mica schist 165 to 170'	85	"	.005	Nil	"
170-185	Aplite to 172'. Quartzite 172-185'	80	"	.005	.01	"
185-200	Quartzite	60	"	.005	.01	"
200-215	"	65	"	Tr	.01	"
215-230	Quartzite to 219; aplite 219-224; quartzite 224-227; aplite 227-230'	25	"	Tr	.02	"
230-235	Quartzite	55	"	Tr	.04	"
235-240	"	50	"	.005	.02	"
240-245	"	30	"	.010	.04	"
245-260	Quartzite to 253'; fresh granite 253-260'	65	"	.010	.01	"
260-275	Fresh granite to 271'; quartzite to 275'	80	"	.010	Nil	"
275-290	Quartzite to 288'; aplite 288-290'	50	"	.015	.03	"
290-305	Quartzite	40	"	.015	.01	"
305-320	"	10	"	.015	Nil	AX at 309'

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
320-335	Quartzite	25	Nil	.010	Nil	AX
335-350	"	30	"	.005	.01	"
350-365	Quartzite to 364; aplite 364-365'	30	"	.005	.01	"
365-380	Aplite	60	"	.010	.03	"
380-395	Aplite to 383. Quartzite 383-395. Coarse-grained pyrite at 383'	45	"	.025	.04	"
395-410	Quartzite to 407'; aplite 407-410'	40	"	Tr	.02	"
410-425	Quartzite to 418'; aplite 418-425'	40	"	.015	.02	"
425-440	Quartzite	20	"	.010	.01	"
440-455	"	20	"	.010	.03	"
455-470	"	15	"	.010	.11	"
470-485	"	15	"	Tr	.06	"
485-490	"	20	"	.005	.05	"
	Bit and shell sheared off at 385 feet as hole was being reamed. All attempts to recover bit and shell were unsuccessful, so hole was deflected about 2° south at 384 feet.					
384-395	Quartzite	10	Not Assayed			"
395-410	Quartzite to 406. Aplite 406-408'; quartzite 408-410'	55	"	"		"
410-425	Quartzite	60	"	"		"
425-440	"	15	"	"		"
440-455	"	20	"	"		"
455-470	"	10	"	"		"
470-485	"	10	"	"		"
485-490	"	15	"	"		"
490-505	Quartzite to 495. Mica schist 495-498'. Quartzite 498-505'	45	Nil	.005	.04	"
505-520	Quartzite to 509. Aplite 509 to 512'. Quartzite 517 to 520'	85	"	.005	Nil	"
520-535	Quartzite	90	"	.010	.04	"
535-550	"	60	"	.010	.03	"
550-565	Quartzite to 548'; mica schist 548-557'; quartzite 557-565'	80	"	.005	.09	"
565-580	Quartzite	65	"	.005	.07	"
580-595	"	60	"	.005	.07	"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
595-610	Mica schist	90	Nil	Tr	.07	AX
610-625	" "	65	"	.005	.04	AX at 623'
625-640	" "	70	"	.030	.05	"
640-645	" "	50	"	.035	.11	"
645-650	" " , altered and soft 649-650'	70	"	.110	.41	"
650-655	Mixed mica schist and altered granite. Fine-grained sulfides	15	"	.030	.10	"
655-660	Completely altered granite. Fine-grained sulfides	20	"	.035	.10	"
660-665	" " " " " " Good stibnite at 663'	30	"	.040	.78	"
665-670	Completely altered granite. Fine-grained sulfides	20	"	.020	.10	"
670-675	" " " " " " Strong fault zone - heavy gouge - from 670 to 680'	5	"	.030	.06	"
675-680	No core recovery	0	"	.025	.08	"
680-685	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.025	.76	"
685-690	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.090	.42	"
690-695	Completely altered granite. Fine-grained sulfides. Good stibnite 692-695'	60	"	.105	1.15	"
695-700	Completely altered granite. Fine-grained sulfides. Good stibnite	60	Sludge lost			"
700-705	Completely altered granite. Fine-grained sulfides. Stibnite	95	Nil	.115	.40	"
705-710	Completely altered granite. Fine-grained sulfides. Stibnite	55	"	.120	.54	"
710-715	Mainly altered granite. Some patches fresh granite. Good stibnite at 713'	95	"	.115	.40	"
715-720	Mainly altered granite. Some patches fresh granite. Stibnite at 716'	85	"	.040	.20	"
720-725	Mixed altered and fresh granite	55	"	.035	.28	"
725-730	Mainly fresh granite. Patches of altered granite.	85	"	.025	.19	"
730-735	" " " " " " "	15	Sludge lost			"

End of hole at 735 feet.

Note: All assays are sludge assays. Nil values of WO3 determined by lamping. All core and sludges lamped. Hole drilled by Nichols and Thompson Core Drilling Co. Date started: 9/27/54; finished: 10/27/54.

Form MF-594 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval Expires 8-30-53.

RECEIVED
NOV 3 - 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Short Form Contracts:						
Drilling	3,261.33	24,250.72	27,512.05			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
[redacted] Consultant		1,120.00	1,120.00			
Supervision						
Technical Services	110.40	851.92	962.32			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	48.17	237.03	285.20			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs		573.06	573.06			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	87.75	1,203.75	1,291.50			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	425.00	450.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	3,532.65	30,886.59	34,419.24	3532.65	30886.59	34419.24

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10/25/54 *Payee BRADLEY MINING CO.

Per G. Olerton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2649 49

Signature M. P.
(Authorized Certifying Officer)

Date 11/3/54 Vou. No. 335
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6453 in accordance with the terms of the contract.

Signature /s/ Webster S. Anderson Title Mining Engr Date 11-1-54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E. Howard Title Mining Engr Date 11-1-54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 8 - 1954

Month of September 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Airport	1'	2298.78	486	8,334.26	1762	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	891.00	99	4,896.00	544	9.00	215	9.00
Ream & Case	1'	71.55	27	1,560.85	589	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		271.32		4,410.96				
TOTAL DISTRIBUTED COSTS		3532.65		31,923.01				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				573.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		3532.65		34,419.24				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 10/25/54 Operator BRADLEY MINING CO.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

September, 1954

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-57	430 ft. at $4.73	$2,033.90	
Hole MC-58	56 ft. at $4.73	264.88	
			$ 2,298.78

Driving Pipe:

Hole MC-57	99 ft. at $9.00	$91.00
	(In excess of contract pipe driving footage)	

Reaming:

Hole MC-58	27 ft. at $2.65	71.55
		$3,261.33

Item 2 - Labor and Supervision

Technical Services	$ 110.40

Item 3 - Operating Materials and Supplies

Miscellaneous - Core Boxes	48.17

Item 7 - Miscellaneous

Analytical Work

39	Antimony Assays at $1.50	$58.50	
39	Gold Assays at $0.75	29.25	
			$ 87.75
Accounting			25.00
Total for "Other", Form MF-104A			$ 271.32

October 20, 1954

DMEA Progress Report for September, 1954

Contract Idm-E 453

Progress

Airport and Scout Ridge Area.

Diamond drill hole MC-57, started in August in the Airport Area, was completed to a length of 703 feet. The depth of overburden in the area was much greater than anticipated; bedrock was reached at 273 feet. The log of this hole is enclosed.

Hole MC-58 was started in September. It is the first hole to be drilled at Scout Ridge, as authorized by Contract Amendment No. 3. The location of the hole is shown on the map enclosed with our request for amendment dated August 7, 1954. Bedrock was reached at 27 feet and the hole was down to 56 feet at the end of the month.

Geology

Airport and Scout Ridge Area.

Hole MC-57 was virtually barren throughout its length. The hole was drilled in fresh granite and aplite, with only a few narrow patches of altered granite. Only minor amounts of antimony, tungsten or gold were found; the highest values were 0.06% antimony, traces of tungsten and 0.055 oz/ton gold.

Note: The collar location of diamond drill hole MC-56, drilled in September and October, 1953, has been resurveyed. The corrected collar location is as follows:

Coordinates: 19,723 North and 20,098 East
Elevation: 6,550 feet.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COORDINATES: 19,169.3 N
21,029.2 E

ELEVATION: 6,548.0

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-57

BEARING: N 47° W

INCLINATION: Minus 47½°

Footage	Mineralogy	% Recovery	WO3	Oz. Au	% Sb	Size Core
0 -274	Overburden. Fresh granite boulders, gravel & sand		Nil			
274-290	Fresh granite. Weathered (iron-stained) along fractures	50	No sludge			BX
290-315	" " " " " " "	55	Nil	.015	.01	"
315-335	Fresh granite to 318. Aplite 318 to 335. Weathered along fractures.	85	Nil	.015	.05	AX at 323
335-340	Fresh aplite. Weathered along fractures	70	No sludge			AX
340-365	Fresh granite. Patches of aplite	80	Nil	.010	.05	"
365-395	" "	90	Tr	.035	.03	"
395-420	" " Few patches of aplite	75	Nil	.005	.01	"
420-429	" "	65	Nil	.005	.02	"
429-433	" "	70	Nil	Tr	.02	"
433-437	" " Aplite with small stringers fine-grained sulfides 434 to 435'	55	Nil	Tr	.01	"
437-440	Completely altered granite and aplite. Few fine-grained sulfides	65	Nil	.005	.06	"
440-445	Completely altered granite to 441'; fresh granite to 442'; brecciated and altered granite, some aplite, 442 to 445'	70	Nil	.055	.06	"
445-450	Brecciated, altered granite and gouge to 447'; partially altered to 449'; fresh granite 449 to 450'	75	Nil	.020	.04	"
450-470	Fresh granite. Patch of alteration at 453'	95	No sludge			"
470-475	Essentially fresh granite and aplite	95	Nil	.015	.01	"
475-483	Fresh granite, some aplite	55	No sludge			
483-487	Fresh granite	30	Nil	.015	.02	"
487-492	" "	80	Nil	.025	.05	"
492-505	" " minor aplite	85	No sludge			
505-510	Hard, fresh aplite	70	Nil	.015	.02	"
510-520	Fresh granite to 512'; fresh aplite to 514'; fresh granite to 515'; fresh aplite to 518'; fresh granite to 520'	75	No sludge			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
520-525	Mixed fresh granite and aplite	45	Nil	.020	.06	AX
525-530	Fresh granite to 527'; fresh aplite to 528'; fresh granite to 530'	75	No sludge			"
530-537	Fresh granite; some aplite. Minor alteration at 536'	85	Nil	.015	.02	"
537-542	Fresh granite	70	Nil	.035	.02	"
542-547	Fresh granite to 544'. Aplite to 547'. Minor alteration at 544'	90	Nil	.020	.04	"
547-552	Fresh aplite to 551'. Fresh granite to 552'	55	Nil	.020	.02	"
552-557	Fresh granite	95	Nil	.030	.01	"
557-565	Fresh granite. Partially altered 564 to 565'	60	No sludge			"
565-570	Mainly fresh aplite; some fresh granite	30	Nil	.015	.01	"
570-580	Fresh aplite to 572'; partially altered aplite 572 to 580'	35	No sludge			"
580-585	Mainly fresh aplite	20	Nil	.020	.01	"
585-590	Fresh granite	30	Nil	.005	.02	"
590-595	" "	35	Nil	.010	.01	"
595-600	" "	40	Nil	.005	.01	"
600-605	Fresh aplite; some fresh granite	25	Nil	Tr	.01	"
605-609	Fresh granite	70	Nil	.015	Nil	"
609-615	" " Patch of alteration at 611'	70	Nil	.020	Nil	"
615-621	Fresh aplite to 616'. Fresh granite 616 to 621'	85	Tr	.010	Nil	"
621-627	Fresh granite to 626; fresh aplite 626 to 627'	80	Nil	.010	Nil	"
627-650	Fresh granite. Small patches of aplite	85	Nil	.015	Nil	"
650-675	" " " " " " . Minor patch of alteration at 672'	70	Nil	.015	Nil	"
675-703	Mixed fresh granite and aplite to 684'. Partially altered aplite 684 to 693'. Completely altered granite, some gouge 693 to 696'. Mainly fresh granite (very minor alteration) 696 to 703'	50	Nil	.010	.03	"

End of hole at 703 feet

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 8/9/54; finished: 9/25/54.

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Defense Minerals Administration
RECEIVED
OCT - 4 1954

Month of August, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	1,566.00	22,684.72	24,250.72			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant	200.00	920.00	1,120.00			
Supervision						
Technical Services	51.92	800.00	851.92			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	16.48	220.55	237.03			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	92.00	481.06	573.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		1,203.75	1,203.75			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	400.00	425.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	1,951.40	28,935.19	30,886.59	1951.40	28935.19	30886.59

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 9/24/54 *Payee Bradley Mining Co.

Per H Orton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1463 55

Signature M [illegible]
(Authorized Certifying Officer)

Date 9/29/54 Vou. No. 1301
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 4453 in accordance with the terms of the contract.

Signature /s/ Webster S. Anderson Title Mining Engr Date 9/27/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Zoldok Title Mining Engr Date 9/27/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 4 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1954 Docket No. DMEA 2636 Contract No. Idm-E 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Airport	1'			6,035.48	1276	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hannessey Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	1,566.00	174	4,005.00	445	9.00	215	9.00
Ream & Case	1'			1,489.30	562	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		293.40		4,139.64				
TOTAL DISTRIBUTED COSTS		1,859.40		28,390.36				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		92.00		573.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		1,951.40		30,886.59				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 9/24/54 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

August, 1954

Item 1 - Unit Costs, Diamond Drilling

Driving Pipe:

Airport Area

Hole MC-57	174 ft. at $9.00 (In excess of contract pipe driving footage)		$1,566.00

Item 2 - Labor and Supervision

Consultant	4 days at $50.00	$200.00	
Technical Services		51.92	$ 251.92

Item 3 - Operating Materials and Supplies

Miscellaneous

Core Boxes	$ 16.48

Item 7 - Miscellaneous

Accounting	$ 25.00
Total for "Other" Form MF-104A	$ 293.40

Item 6 - New Buildings, Improvements, etc.

11½ Hours Tractor Work at $8.00	$ 92.00

September 16, 1954

DMEA Progress Report for August, 1954

Contract Idm-E 453

Airport Area

Diamond drilling under contract Idm-E 453 was resumed in August after being recessed during the Winter season.

Hole MC-57, the third hole in the airport area, was started in August. It was collared on the southeast side of the valley and is being drilled northwesterly at an inclination of minus 50°. At the end of the month bedrock had not yet been reached; 174 feet of pipe had been driven through overburden.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/js

xxxxxxxxxxxxxxxxxx

Spokane, Washington
September 30, 1954

Mrs. Myrtle Purdy
Certifying Officer
DMEA Field Team, Region II
Spokane, Washington

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mrs. Purdy:

I have been informed that the Operator's August 1954 forms MF-104 and 104A show 445 feet of driving on surface and 562 feet of reaming and casing as having been completed. The contract authorizes only 215 feet of driving pipe at $9.00/ft. or $1,935.00, and 3850 feet of reaming and casing at $2.65/ft. or $10,202.00. The authorized footage for driving pipe has already been exceeded by 230 feet, and it appears that more footage will be required to complete the contract, whereas only 562 feet of casing and reaming footage out of 3850 feet authorized has been used and it is likely that this entire footage will not be needed.

Inasmuch as the authorized footages for driving pipe, drilling and reaming and casing are estimates only, any one of these categories can be exceeded at the expense of any other, provided, however, that the total dollar amount authorized is not exceeded and the Field Team is informed of the change.

Sincerely yours,

/s/ A. E. WEISSENBORN

A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II

cc: USM (2)
Puffett
DMEA(2)

SWZ/he

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $53,000.00 Government Participation: 75 % Amount, $39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted]t Short Form Contracts:						
Drilling	3,424.66	19,260.06	22,684.72			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor Consultant	115.00	805.00	920.00			
Supervision						
Technical Services	100.00	700.00	800.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	10.13	210.42	220.55			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		481.06	481.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	80.50	1,123.25	1,203.75			
Payroll Taxes						
Liability Insurance						
Accounting	50.00	350.00	400.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	3,780.29	25,154.90	28,935.19	3780.29	25154.90	28,935.19

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 12/29/53 *Payee BRADLEY MINING CO.
Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2835 22

Signature [signature]
(Authorized Certifying Officer)

Date 1/8/54 Vou. No. 1037
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ John A Bowsher Title Mining Engr Date Jan 5 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date Jan 6 1954

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 2636 Contract No. Idm-E ~~[illegible]~~ 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drilling:								
~~Drifting~~ Airport	1 ft.	2965.71	627	6,035.48	1276	4.73	3000	4.73
~~Crosscutting~~ SE of Pit	1 ft.			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessey Cr.	1 ft.			2,988.60	586	5.10	500	5.10
~~Stope~~ North Tunnel	1 ft.			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core					3975			
Churn								
Auger								
~~Stopping~~ Driving Pipe	1 ft.	27.00	3	2,439.00	271	9.00	215	9.00
~~Trenching~~ Ream & Case	1 ft.	431.95	163	1,489.30	562	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		355.63		3,846.24				
TOTAL DISTRIBUTED COSTS		3780.29		26,530.96				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				481.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		3780.29		28,935.19				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 12/29/53 Operator Bradley Mining Co.

Per [illegible] Title Assistant Secretary

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

October, 1953

Item 1 - Unit Costs, Diamond Drilling		
Drilling:		
Airport Area		
Hole MC-56 627 ft. at $4.73		$2,965.71
Driving Pipe:		
Hole MC-56 3 ft. at $9.00 (In excess of footage specified in contract)		27.00
Reaming:		
Hole MC-56 163 ft. at $2.65		431.95
		$3,424.66
Item 2 - Labor and Supervision		
Consultant	$115.00	
Technical Services	100.00	
		$ 215.00
Item 3 - Operating Materials and Supplies		
Misc.		
Core Boxes		$ 10.13
Item 7 - Miscellaneous		
Analytical Work		
34 Antimony Assays at $1.50	$ 51.00	
34 Gold Assays at $0.75	25.50	
2 Tungsten Assays at $2.00	4.00	
		$ 80.50
Accounting		50.00
Total for "Other" Form MF-104A		$ 355.63

December 12, 1953

DMEA Progress Report for October, 1953

Contract Idm-E 453

Progress

Airport Area. Diamond drill hole MC-56, drilled 118 feet in September, was completed to a length of 748 feet in October. Bedrock was entered at a depth of 121 feet.

This was the final hole to be drilled under contract Idm-E 453 for the 1953 season. Diamond drilling will be recessed until the summer season of 1954.

Geology

Airport Area. Hole MC-56 was very similar to the first hole drilled in the airport area (hole MC-55) in respect to both the character of the rock and the assay results.

Several areas of altered granite were cut, all having some gold mineralization and minor amounts of antimony. The highest assays were 0.095 oz/ton gold and 0.12% antimony. Traces of tungsten were occasionally found in the sludge samples.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 32-R1036.4
Approval expires 6-30-53.

RECEIVED
JAN 15 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75% Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Short Form Contracts:						
Drilling	3,955.37	15,304.69	19,260.06			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
[redacted] Consultant	115.00	690.00	805.00			
Supervision						
Technical Services	100.00	600.00	700.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	48.45	161.97	210.42			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		481.06	481.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	80.75	1,042.50	1,123.25			
Payroll Taxes						
Liability Insurance						
Accounting	50.00	300.00	350.00			
(8) Contingencies (specify):						
Preparatory Work	509.82	1,413.35	1,923.17			
TOTALS	4,859.39	20,295.51	25,154.90	4859.39	20295.51	25,154.90

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 12/29/53 *Payee Bradley Mining Co.
Per G Morton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Totals adjusted for deletions made from July and August reports

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3644.54

Signature [illegible]
(Authorized Certifying Officer)

Date 1/8/54 Vou. No. 1037
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /S/ John A Bowsher Title Mining Engr Date Jan 5 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date Jan 6 - 1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1953 Docket No. DMEA 2635 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drilling:								
Airport	1 ft.	2620.42	554	3,069.77	649	4.73	3000	4.73
SE of Pit	1 ft.			5,833.24	1162	5.02	1500	5.02
Hennessey Creek	1 ft.			2,988.60	586	5.10	500	5.10
North Tunnel	1 ft.			3,899.10	951	4.10	1500	4.10
Drilling: Core								
Churn								
Auger								
Driving Pipe	1 ft.	1062.00	118	2,412.00	268	9.00	215	9.00
Ream & Case	1 ft.	272.95	103	1,057.35	399	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		394.20		3,490.61				
TOTAL DISTRIBUTED COSTS		4349.57		22,750.67				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				481.06				1,280.00
Contingencies		509.82		1,923.17				3,038.00
TOTAL COSTS		4859.39		25,154.90				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 12/29/53 Operator BRADLEY MINING CO.

Per G Clinton Title Assistant Secretary

REMARKS: Totals adjusted for deletions made from July and August reports.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

December 2, 1953

DMEA Progress Report for September, 1953

Contract Idm-E 453

Progress

Airport Area. Diamond drill hole MC-55, drilled 195 feet in August, was completed to a length of 749 feet in September. It was drilled southeast of an inclination of minus 50 degrees.

Hole MC-56 was collared at the northeast corner of the store, and is being drilled southeasterly at an inclination of minus 50 degrees. At the end of the month bedrock had not yet been reached; 118 feet of pipe had been driven through overburden.

Geology

Airport Area. Hole MC-55, while not finding rock of commercial grade, did reveal rather extensive sections of low-grade gold mineralization in a previously untested area. The zones of altered granite invariably assayed some gold and minor antimony. Gold values were as follows: from 180 to 195 feet, 0.040 oz/ton; from 250 to 315 feet, 0.030 oz/ton; from 315 to 325 feet, 0.125 oz/ton; from 325 to 375 feet, 0.030 oz/ton; from 525 to 550 feet, 0.040 oz/ton; from 600 to 650 feet, 0.045 oz/ton. Occasional traces of scheelite were found, both in bedrock and in the overburden.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

September, 1953

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport Area

Hole MC-55	554 ft. at $4.73		$2,620.42

Driving Pipe:

Hole MC-56	118 ft. at $9.00 (53 ft. in excess of footage specified in contract. Result of shifting drilling from CDH area to Airport Area)		1,062.00

Reaming:

Hole MC-55	103 ft. at $2.65		272.95
			$3,955.37

Item 2 - Labor and Supervision

Consultant	$115.00	
Technical Services	100.00	
		$ 215.00

Item 3 - Operating Materials and Supplies

Misc.

Core Boxes		$ 48.45

Item 7 - Miscellaneous

Analytical Work

35 Antimony Assays at $1.50	$ 52.50	
35 Gold Assays at $0.75	26.25	
1 Tungsten Assay at $2.00	2.00	
		$ 80.75

Accounting	50.00
Total for "Other" Form MF-104A	$ 394.20

Item 8 - Contingencies

We resubmit $509.82 deleted from the July MF-104 for preparatory work in the North Tunnel.

The work done in the North Tunnel was essential to the performance of the diamond drilling specified in the contract for the North Tunnel area -- drilling was not possible until this work had been done. The tunnel was reopened by the Bradley Mining Co. in February, 1951. Since then, however, sections of the tunnel in the Meadow Creek fault zone caved, necessitating the rather extensive clean up work and timbering reported in our monthly reports for June and July.

We refer to Article 6, paragraph 8, of the contract: "Contingencies - Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A"....." We believe the preparatory work in the North Tunnel should be included under the contract definition of contingencies.

The amount charged in the July MF-104 was the actual labor and compensation insurance cost of the preparatory work for the month, exclusive of supplies and materials. The following employees performed this work:

Hourly-paid Employees

Clifford W. Bale, Underground Miner	40	hrs.
Dale W. Barkell, " "	40	"
Harold Longacre, " "	91½	"
Harry J. Washington, " "	8	"
Clifford J. Ross, Timber Framer	40½	"
Benjamin Payne, Sr., First Machinist	15	"

Supervisory Employees

George R. Hansen, Equipment Supt.	4	hrs.
Melvyn E. Manning, Dia. Drill Foreman	4	"
Lawrence E. Smith, Maint. Shift Supv.	4	"
Total	247	hrs.

Labor - 247 hours	$491.09	
Compensation Insurance	18.73	
		$ 509.82

Form MF-54 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	6,773.20	8,531.49	15,304.69			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~xxxx~~ Consultant	230.00	460.00	690.00			
Supervision						
Technical Services	200.00	400.00	600.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	60.53	269.09	329.62	23.47	138.50	161.97
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	121.94	180.00	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	41.00	423.65	464.65	57.41	423.65	481.06
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	312.75	729.75	1,042.50			
Payroll Taxes						
Liability Insurance						
Accounting	100.00	200.00	300.00			
(8) Contingencies (specify):						
Preparatory Work	21.88	1,923.17	1,945.05	-0-	1413.35	1413.35
TOTALS	7,861.30	13,117.15	20,978.45	7818.77	12,476.74	20295.57

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10/26/53 *Payee Bradley Mining Co.

Per G. Olsten Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5864.08

Signature [illegible]
(Authorized Certifying Officer)

Date 11/14/53 Vou. No. 967
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /S/ John A. Bowsher Title Mining Eng. Date 10/20/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Eng. Date 11/3/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
~~Drifting~~ Airport	1 ft.	449.35	95	449.35	95	4.73	3000	4.73
~~Connecting~~ SE of Pit	1 ft.			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessey Cr.	1 ft.	2,988.60	586	2,988.60	586	5.10	500	5.10
~~Drift~~ North Tunnel	1 ft.	1,701.50	415	3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Driving Pipe	1 ft.	1,170.00	130	1,350.00	150	9.00	215	9.00
~~Erection~~ Ream & Case	1 ft.	463.75	175	784.40	296	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		1,025.22		3,264.06				
TOTAL DISTRIBUTED COSTS		7,798.42		18,568.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		41.00		464.65				1,280.00
Contingencies		21.88		1,945.05				3,038.00
TOTAL COSTS		7,861.30		20,978.45				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 10/26/53 Operator Bradley Mining Co.

Per S. Orton Title Assistant Secretary

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

September 17, 1953

DMEA Progress Report for August, 1953

Contract Idm-E 453

Progress

Hennessey Creek Area

Hole B-220. Hole started in July, finished this month. Pipe was driven through overburden from 20 to 35 feet, bedrock was entered at 35 feet and the hole was drilled to a total length from the collar of 278 feet. ~~The log is enclosed with this report.~~

Hole B-221. Drilled south 63° west from same location as hole B-220. Inclination: minus 60°. Pipe was driven through 15 feet of overburden and the hole was then drilled to a total length of 358 feet. ~~Log is enclosed~~.

Airport Area

Hole MC-55. As authorized by contract amendment No. 2, drilling was started in the vicinity of the Stibnite airport during August. Hole MC-55 was collared about 400 feet northeast of the Stibnite store, and is being drilled south 47° east at an inclination of minus 50°. Pipe was driven 100 feet through overburden to bedrock and the hole was drilled an additional 95 feet, making the total length of the hole 195 feet at the end of the month. The hole is planned for a length of 750 feet and will be completed in September. The log will be enclosed in the monthly report for September.

North Tunnel Area

Hole FC-2. Hole drilled 60 feet in July, finished to length of 475 feet in August. ~~Log is enclosed with this report.~~

Geology

Hennessey Creek Area

The second and final hole in the Hennessey Creek Area was unsuccessful in locating the zone of intersection between the west branch of the Meadow Creek Fault and the "L" Fault. Some areas of altered granite were found, but for most of its length the hole was in fresh granite with only very minor antimony-gold values.

North Tunnel Area

Hole FC-2, drilled northwest from the North Tunnel, was supposed to cut the Meadow Creek Fault near its intersection with the Fiddle Creek Fault, based on the assumption that the Meadow Creek Fault lies west of the North Tunnel. This premise is almost certainly disproved by the results of the drill hole: the hole was in essentially unaltered rock for its entire length, with only traces of antimony and gold present.

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Note: Diamond drill logs not completed in time to be included with this report. Logs will be forwarded at a later date.

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

AUGUST, 1953

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport Area				
Hole MC-55	95 ft. @ $4.73			$ 449.35
Hennessey Creek Area				
Hole B-220	243 ft. @ $5.10	$1,239.30		
Hole B-221	343 ft. @ $5.10	1,749.30		
	586 ft.			2,988.60
North Tunnel Area				
Hole FC-2	415 ft. @ $4.10			1,701.50

Driving Pipe:

Hole MC-55	100 ft. @ $9.00	$ 900.00	
Hole B-220	15 ft. @ $9.00	135.00	
Hole B-221	15 ft. @ $9.00	135.00	
	130 ft.		1,170.00

Reaming:

Hole MC-55	95 ft. @ $2.65	$ 251.75	
Hole FC- 2	80 ft. @ $2.65	212.00	
	175 ft.		463.75
			$6,773.20

Item 2 - Labor & Supervision

Consultant	$230.00	
Technical Services	200.00	$ 430.00

Item 3 - Operating Materials & Supplies

Misc.: Core Boxes	23.47	
Fuel Oil, Motor Oil for compressor and pump - North Tunnel	37.06	60.53

Item 4 - Operating Equipment

Depreciation: Compressor (21/31 month)	121.94

Item 7 - Miscellaneous

Analytical Work

139 Antimony Assays @ $1.50	$208.50	
139 Gold Assays @ $0.75	104.25	312.75
Accounting		100.00
Total for "Other" Form MP-104A		$1,025.22

Item 6 - New Buildings & Equipment

Water pipe and fittings	$ 41.00

Item 8 - Contingencies

North Tunnel - repairing water pump

Labor - 2 Hours	$ 5.28	
Compensation Insurance	.19	

Airport Area - installing water pipe

Labor - 6 Hours	15.85	
Compensation Insurance	.54	$ 21.88

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

Month of July, 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	6,470.32	2,061.17	8,531.49			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
~~Supervision~~ Consultant	230.00	230.00	460.00			
Technical Services	200.00	200.00	400.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	249.34	19.75	269.09	118.75	19.75	138.50
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	180.00	~~[illegible]~~	180.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	56.00	367.65	423.65			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	585.00	144.75	729.75			
Payroll Taxes						
Liability Insurance						
Accounting	100.00	100.00	200.00			
(8) Contingencies (specify):						
Preparatory work	509.82	1,413.35	1,923.17	-0-	1413.35	1413.35
TOTALS	8,580.48	4,536.67	13,117.15	7940.07	4536.67	12,476.74

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10/19/53 *Payee Bradley Mining Co.

Per G. Orton Title Assistant Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5955.05

Signature [illegible]
(Authorized Certifying Officer)

Date 11/16/53 Vou. No. 967
(See other side)

Note: Above totals corrected for deletion of $330.00 made in June, 1953.

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /s/ John A. Boueshea Title Mining Engr Date 10/29/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E. Howard Title Mining Engr Date 10/29/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Drifting: Airport	1 ft.						3000	4.73
Crosscutting: SE of pit	1 ft.	3,970.82	791	5,833.24	1162	5.02	1500	5.02
Raising: Hennessey Cr.	1 ft.						500	5.10
Shafts: North Tunnel	1 ft.	2,197.60	536	2,197.60	536	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping: Driving Pipe	1 ft.	180.00	20	180.00	20	9.00	215	9.00
Trenching: Ream and Case	"	121.90	46	320.65	121	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		1,544.34		2,238.84				
TOTAL DISTRIBUTED COSTS		8,014.66		10,770.33				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		56.00		423.65				1,280.00
Contingencies		509.82		1,923.17				3,038.00
TOTAL COSTS		8,580.48		13,117.15				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 10/19/53 Operator Bradley Mining Co.

Per G. Dixton Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

September 14, 1953

DMEA Progress Report for July, 1953

Contract Idm-E 453

Progress

Southeast of Pit Area

Hole B-218. Drilled south 25° east from the partial bench at the extreme south end of the Yellow Pine open pit. Inclination: minus 10°. Length: 500 feet. ~~Log is enclosed with this report.~~

Hole B-219. Drilled south 85° east from the same location as Hole B-218. Inclination: minus 10°. Length: 291 feet. ~~Log is enclosed.~~

Hennessey Creek Area

Hole B-220. Hole started on last day of the month; drove 20 ft. of pipe through overburden in July. Hole drilled nearly due south at minus 60° inclination, from the north slope of Hennessey Creek (west of the Yellow Pine open pit). Log will be included in the monthly report for August.

North Tunnel Area

Hole FC-1. Flat hole collared underground at the face of the east crosscut in the North Tunnel. Drilled south 62° east; length 476 feet. ~~Log is enclosed.~~

Hole FC-2. Hole collared underground at the face of the west crosscut in the North Tunnel. Bearing north 53° west, inclination minus 18°. Drilled 60 ft. in July; drilling continued in August. Log will be included in the monthly report for August.

Geology

Southeast of Pit Area

Drilling in the area southeast of the Yellow Pine pit was stopped after completing the third hole. Results were rather disappointing in that only one comparatively narrow zone of antimony ore was found. This zone, 15 feet wide (from 70 to 85 feet in Hole B-218) averaged 2.10% antimony. All three holes cut wide areas of alteration and brecciation, with accompanying very low grade antimony-gold mineralization, but other than the above mentioned antimony zone no values of particular interest were found.

Hennessey Creek Area

The first hole in the Hennessey Creek area encountered the usual very low grade antimony-gold mineralization, but no rock of commercial value was found. The drilling in this area is designed to test the intersection of the west branch of the Meadow Creek fault with the "L" fault for possible ore occurrences. Neither structure was recognized in the drill cores.

North Tunnel Area

The first hole drilled from the North Tunnel disclosed low antimony-gold values throughout most of its length. The highest assays were 0.29 per cent antimony and 0.050 ounces gold per ton. Wide zones of intensive alteration were found in the first part of the hole.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Note: Diamond drill logs not completed in time to be included with this report. Logs will be forwarded at a later date.

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

JULY, 1953

Item 1 - Unit Costs, Diamond Drilling				
Drilling				
Southeast of Pit Area				
Hole B-218	500 ft. @ $5.02		$2,510.00	
Hole B-219	291 ft. @ $5.02		1,460.82	
	791 ft.			$3,970.82
North Tunnel Area				
Hole FC-1	476 ft. @ $4.10		$1,951.60	
Hole FC-2	60 ft. @ $4.10		246.00	
	536 ft.			2,197.60
Driving Pipe:				
Hole B-220	20 ft. @ $9.00			180.00
Reaming:				
Hole B-219	46 ft. @ $2.65			121.90
				$6,470.32
Item 2 - Labor & Supervision				
Consultant			$230.00	
Technical Services			200.00	$430.00
Item 3 - Operating Materials & Supplies				
Misc.: Core Boxes			$118.75	
Fuel Oil, Motor Oil for compressor and pump - North Tunnel			130.59	249.34
Item 4 - Operating Equipment & Supplies				
Depreciation: Compressor (one month)				180.00
Item 7 - Miscellaneous				
Analytical Work				
260 Antimony Assays	@ $1.50		$390.00	
260 Gold Assays	@ $0.75		195.00	585.00
Accounting				100.00
Total for "Other" Form MF-104A				$1,544.34

Item 6 - New Buildings, Improvements, etc.

7 Hours Tractor Work @ $8.00		$ 56.00

Item 8 - Contingencies:

North Tunnel - repairing tunnel, cutting underground diamond drill stations

Labor - 247 hours	$491.09	
Compensation Insurance	18.73	$509.82

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 2636 Contract No. Idm-F 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Stockholder~~ Contracts:	2,061.17		2,061.17	2061.17		2061.17
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
~~Supervision~~ Consultant				230.00		230.00
Technical Services	430.00		430.00	200.00		200.00
(3) Operating Mat'ls. and Supplies:						
Timber	55.17		55.17	—		—
Explosives						
Pipe	60.48		60.48	—		—
Track						
Misc.	19.75		19.75	19.75		19.75
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	252.00		252.00	367.65		367.65
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	144.75		144.75	144.75		144.75
Payroll Taxes						
Liability Insurance						
Accounting	100.00		100.00	100.00		100.00
(8) Contingencies (specify):						
Preparatory work,						
Endg. & Surface	1,413.35		1,413.35	1413.35		1413.35
Contractor's Move In	330.00		330.00	—		—
TOTALS	4,866.67		4,866.67	4536.67		4536.67

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 8/24/53 *Payee Bradley Mining Co.

Per G C Dalton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3402.50

Signature [illegible]
(Authorized Certifying Officer)

Date 9/14/53 Vou. No. 899
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /s/ John a Bowsher Title Mining Engr Date 8/26/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E Howard Title Mining Engr Date 8/26/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1953 Docket No. DMEA 2636 Contract No. Idm-I 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes		1862.42		1862.42		5.02		
Drilling: Core S.E. pit	1 ft.	~~2871.32~~	371	~~2,871.32~~	371	7.74	6,500	7.49
Churn								
Auger								
Stripping Hoisting		198.75	75	198.75	75	2.65		
Trenching								
Test Pits								
Roads and Trails								
Other Costs		694.50		694.50				
TOTAL DISTRIBUTED COSTS		~~2871.32~~ 2955.67		~~2,871.32~~ 2955.67				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs		367.65		367.65				
New Buildings, Improvements, etc.		~~252.00~~		~~252.00~~				1,280.00
Contingencies 1413.35		~~1743.35~~		~~1,743.35~~ 1413.35				3,038.00
TOTAL COSTS		~~4866.67~~ 4556.67		~~4,866.67~~ 4556.67				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 8/24/53 Operator Bradley Mining Co.

Per G. Alston Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

August 12, 1953

D.M. & M. Progress Report for June, 1953

Contract 16m-3 453

Progress

One diamond drill hole was completed in June in the area southeast of the Yellow Pine open pit. This hole, No. D-217, was drilled under the stop area from bench 8 on the east side of the pit. The length of the hole was 371 feet.

Geology

The hole was in the large quartzose fault from 30 to approximately 250 feet. Beyond 250 feet the rock was essentially fresh granite and aplite. Very low antimony-gold values were present in the first 55 feet, with only minor amounts in the remainder of the hole.

Sunshine Mining Co.

K. H. Wallace

K. H. Wallace
Assistant Manager

KHW/jm

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

June, 1953

Item 1 - Unit Costs, Diamond Drilling

Southeast of Pit Area
Hole B-217

Drilling	371 ft. at $5.02	$1,862.42	
Reaming	75 ft. at $2.65	198.75	
			$2,061.17

Item 2 - Labor and Supervision

Technical Services	$ 200.00	
Consultants	230.00	
		$ 430.00

Item 3 - Operating Materials and Supplies

Timber		
508 bd. ft. Lumber	$ 55.17	
Pipe		
315 ft. 1" pipe	60.48	
Misc.		
Core Boxes	19.75	
		$ 135.40

Item 6 - New Buildings, Improvements, etc.

31.5 hours Tractor Work at $8.00	$ 252.00

Item 7 - Miscellaneous

Analytical Work		
59 Antimony Assays at $1.50	$ 88.50	
75 Gold Assays at $0.75	56.25	
		$ 144.75
Accounting		$ 100.00

Item 8 - Contingencies

North Tunnel -- Repairing tunnel, cutting underground diamond drill stations, installing compressor, installing air and water systems.

Labor - 426.5 hrs.	$ 832.45	
Comp. Insurance	27.43	
Supplies & Materials	454.97	
		$1,314.85

Pit Area -- Installing culverts, barring down pit slopes.

Labor - 44 hrs.	$ 80.18	
Comp. Insurance	2.64	
		$ 82.82

Hennessey Creek Area -- Installing water pipe

Labor - 8 hrs.	$ 15.18	
Comp. Insurance	.50	
		$ 15.68

Drill Contractor's Move-In Charge	$ 330.00

YELLOW PINE MINE
Stibnite, Idaho

COORDINATES: 29,901.0 E
20,633.3 S

DIAMOND DRILL HOLE NO. B-217

BEARING: S 11° 57' W

INCLINATION: Minus 22°

ELEVATION: 6,070.4

Page No. 1

Footage	Mineralogy	% Recovery	% SbS3	Oz. Au	% Sb	Size Core
0 - 5	Dark grey, brecciated "granite ore", completely altered to 2½'; light grey completely altered granite to 5'. Stibnite in fractures. Disseminated pyrite.	95	Nil	.015	.19	Bx
5 - 10	No core recovery	0	"	.015	.18	"
10 - 15	" " "	0	"	.010	.05	Bx
15 - 20	Completely altered granite and aplite.	5	"	.005	.02	"
20 - 25	"Granite ore type" - intensely altered granite, some brecciation. Visible stibnite and disseminated pyrite	90	"	.020	.08	"
25 - 30	"Granite ore type". Disseminated pyrite, some stibnite.	50	"	.045	.08	"
30 - 35	Fault breccia, dark grey with disseminated stibnite and pyrite.	15	"	.045	.11	"
35 - 40	Fault breccia and gouge. Completely altered granite. Some pyrite	35	"	.015	.06	"
40 - 45	Fault breccia and gouge. Completely altered granite. Some pyrite.	20	"	.030	.14	"
45 - 50	Fault breccia and gouge. Dark grey to 47'; light grey to 50'. Pyrite.	50	Tr	.025	.72	"
50 - 55	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	40	Nil	.020	.29	"
55 - 60	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	60	"	.005	.14	"
60 - 65	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	30	"	.010	.05	"
65 - 70	Fault breccia and gouge. Chlorite and sericite, foliation. Pyrite	95	"	.005	.04	"
70 - 75	Fault Breccia & gouge. Chlorite & sericite, Fol.	65	"	.005	.19	"
75 - 80	" " " " " " " "	60	"	Tr	.18	"
80 - 85	" " " " " " " "	20	"	.005	.09	"
85 - 90	" " " " Chlorite	20	"	Tr	.04	"
90 - 95	" " " " Abundant quartz fragments. White color	75	"	Tr	.05	"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
95 -100	Fault breccia & gouge. Abundant quartz fragments. White color	85	Nil	Tr	.04	Bx
100-105	Fault breccia & gouge. Some unbrecciated aplite. Disseminated pyrite.	5	"	Tr	.09	"
105-110	Fault breccia & gouge. Abundant quartz fragments. White color	35	"	Tr	.06	"
110-115	Fault breccia & gouge. Abundant quartz fragments. White color.	60	"	.010	.04	"
115-120	No core recovery.	0	"	Tr	.03	"
120-125	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	55	"	.005	.03	"
125-130	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite	40	"	Tr	.03	"
130-135	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	60	"	Tr	.04	"
135-140	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	75	"	Tr	.04	"
140-145	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	45	"	Tr	.03	"
145-150	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	35	"	Tr	.04	"
150-155	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	85	"	.005	.04	"
155-160	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	50	"	.005	.04	"
160-165	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	10	"	.005	.02	"
165-170	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.08	"
170-175	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.05	"
175-180	Fault breccia and gouge. Pale green color. Mainly chlorite and sericite.	95	"	Tr	.04	"
180-185	Fault breccia and gouge. Very faint green color.	95	"	.005	.23	"
185-190	" " " " " " " "	35	"	Tr	.03	"
190-195	" " " " Greenish-grey color. Chlorite and sericite.	90	"	Tr	.12	"
195-200	Fault breccia and gouge. " " " Chlorite and sericite.	90	"	Tr	.06	"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% WO3	Oz. Au	% Sb	Size Core
200-205	Fault breccia and gouge. Greenish-grey color. Chlorite and sericite.	70	Nil	.005	.03	Bx
205-210	Fault breccia and gouge. " " " Chlorite and sericite.	70	"	.005	.31	"
210-215	Fault breccia and gouge. " " " Chlorite and sericite.	40	"	.005	.06	"
215-220	Fault breccia and gouge. " " "	95	"	Tr	.02	"
220-225	Fault breccia and gouge. Altered aplite.	10	"	Tr	.01	Ax
225-230	" " " " Black gouge, foliated.	10	"	Tr	.01	"
230-235	" " " " Altered aplite. Sulfides in fractures	10	"	Tr	.03	"
235-240	Fault breccia and gouge. Altered aplite.	15	"	.010	.03	"
240-245	" " " " " "	20	"	.015	.04	"
245-250	Altered aplite with sericite. 249-250' chlorite and sericite.	30	"	.015	.03	"
250-255	No core recovery.	0	"	.010	.01	"
255-260	Completely altered granite and aplite. Some pyrite	10	"	Tr	.02	"
260-265	" " " " " Some brec.	35	"	Tr	.03	"
265-270	Mainly altered aplite and granite. Some fresh fine-grained granite.	95	"	[illegible]	Tr	"
270-275	Granite, some aplite. About 90% altered.	95	"	Tr	.02	"
275-280	" " " " " "	80	"	Tr		"
280-285	" " " " " "	10	"	.005		"
285-290	" " " " " "	100	"	.005	.04	"
290-295	" About 90% altered.	60	"	.005		"
295-300	" " " "	90	"	.005		"
300-305	Altered granite, some aplite.	50	"	.005		"
305-310	Granite, about 90% altered.	100	"	.005	.02	"
310-315	" " " "	85	"	Tr		"
315-320	" " " "	60	"	Tr		"
320-325	Granite and aplite, about 75% altered. Pyrite at 321'.	70	"	.010		"
325-330	Altered granite to 326'; aplite to 328'; fresh fine-grained granite to 330'.	55	"	.010		"
330-335	Fine-grained granite, essentially fresh.	85	"	.005	.01	
335-340	Altered granite and aplite to 326'; fresh fine-grained granite to 340'.	90	"	.015		"
340-345	Fresh fine-grained granite.	100	"	.005		"
345-350	" " " "	100	"	Tr		"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
350-355	Altered granite to 351'; fresh fine-grained granite to 355'.	75	Nil	.015		AX
355-360	Fresh fine-grained granite.	90	"	.015		"
360-365	" " " "	80	"	.005	.06	"
365-370	Fresh " " " to 367'; aplite to 368'; partially altered granite to 370'.	95	"	Tr		"
370-371	Fresh fine-grained granite.	95	"	Tr		"

End of hole at 371 feet.

Note: All assays are sludge assays. Trace and nil values of SO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nicholls and Thompson Core Drilling Co.
Date started: June 22, 1953; finished June 30, 1953.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
~~XXXXXXXXXXXXXXXX~~
WASHINGTON 25, D. C.
Spokane, Washington
February 20, 1953

[illegible] OF THE INTERIOR
[illegible] Minerals Administration
RECEIVED
[illegible] 9 1953

Bradley Mining Company
425 Crocker Building
San Francisco 4, Calif.

Subject: Waiver of invoice documentation requirements - Contract No. Idm-E427 and Contract No. Idm-E453

Gentlemen:

The Contract Administration and Audit Division, DMEA, has determined on authority from the General Accounting Office that the requirement for documentary support of monthly invoices, except for purchases of equipment, may be waived at the discretion of the Field Team Executive Officer.

If this requirement is waived, however, it will be necessary that an auditor of the Contract Administration and Audit Division examine the accounts maintained by the Operator under his contract, render an audit report, and issue an audit certificate which becomes a part of the final invoice (Form MF-104, Revised). Under the waiver procedure, payment of the final voucher cannot be made until after the audit of the Operator's records.

This will inform you that invoicing requirements for work within the terms of your exploration project contract will be waived effective as of the date of the subject contracts, provided such procedure meets with your approval.

An early reply indicating your wish in this matter will be appreciated.

Sincerely yours,

A. E. WEISSENBORN

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: Contract Admin. & Audit Div. (2)
Certifying Officer (2)
Robt. Hull, Auditor
USGS
DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

JUL 27 1956

Mr. John F. Greeley
Executive Vice President
Greeley Mining Company
1672 Crocker Building
San Francisco 4, California

Re: Docket No. [illegible]-2636 (Antimony)
Contract No. [illegible]-463
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Greeley:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

G. C. Mittenzwei

Administrator

Mking/gla/lmm 7-24-56
cc to: Admr.'s Reading File
Docket
Messrs. Ostergaard, Rm. 3643
Thullesgard, Rm. 5-24
Johnsted, Rm. 3210, DMA
Code 200
Mr. Chin
Mr. Johnson
Contract Adm. & Audit Div.
DMA Field Team, Reg. I, Rm [illegible] (2)

Government's Copy

RECEIVED
OCT 28 1955

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 5

It is agreed this 22nd day of August, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading "Estimated Costs of the Project," the items of Diamond Drilling under the subheading "Agreed Unit Costs" are revised to read as follows:

Area Southeast of Pit 3 holes, 1162 ft. @ $5.02 per ft.	$ 5,833.24
North Tunnel Area 2 holes, 951 ft. @ $4.10 per ft.	3,899.10
Henessey Creek Area 2 holes, 586 ft. @ $5.10 per ft.	2,988.60
Airport-Scout Ridge Area 4,149 ft. @ $4.73 per ft.	19,624.77
Driving pipe on surface for drill holes 862 ft. @ $9.00 per ft.	7,758.00
Reaming and casing drill holes 925.77 ft. @ $2.65 per ft.	2,453.29
Total	$42,557.00

The Government will contribute to the costs of the above-specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs.

These unit costs include all costs of the work whatsoever except those actual costs scheduled hereinafter.

* * * * * *

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum", nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By O. Mitterwort
Administrator, Defense Minerals
Exploration Administration

BRADLEY MINING COMPANY

By James P. Bradley
Vice President

Government's copy

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EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 4

It is agreed this 7th day of January, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

1. In Article 3 of the contract, the period for completion is extended from "24 months" to "33 months." (Amendment No. 1 extended the period from "14 months" to "24 months.")

2. In Article 9 of the contract, as amended by Annex II to Amendment No. 2, substitute the period "twelve years" for the period "ten years."

3. In Article 10 of the contract, that part of the second sentence beginning with the word "Provided" is deleted.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum," nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. F. Mathews
Administrator, Defense
Minerals Exploration
Administration

RECEIVED
JAN 31 1955
U. S. G. S.
SPOKANE, WASH.

BRADLEY MINING COMPANY

By John D. Bradley

Government's copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 3

It is agreed this 1st day of October, 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract add the letter "E" after the letter "D" and add "Geologic map of Scout Ridge Area" before the words "attached hereto and made a part hereof."

2. In Annex I add the following claims:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
Meadow Quartz No. 13	12	490
Meadow Quartz No. 14	12	491
Meadow Quartz No. 15	12	493
Meadow Quartz No. 16	12	494
Meadow Quartz No. 17	12	473
Meadow Quartz No. 18	12	475
Meadow Quartz No. 19	12	510
Meadow Quartz No. 20	12	509
Meadow Quartz No. 21	12	508
Meadow Quartz No. 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14, and 15, T. 16 N., R. 9 E., Boise Meridian, Valley County, Idaho.

3. In Exhibit "A" under the heading "Description of the Work" delete the word "four" in the third line of the first paragraph and substitute the word "five."

4. In Amendment No. 2, item 3, add "and Exhibit 'E'" after the words "Exhibit 'B'" in lines two and four of the paragraph in quotes.

5. In Exhibit "A" under the heading "Estimated Costs of the Project," subheading "Agreed Unit Costs," add "and Scout Ridge Area" after the words "Stibnite Airport Area."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Administrator, Defense Minerals
Exploration Administration

BRADLEY MINING COMPANY

By John D. Bradley

800

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SEP 25 1953

Mr. Robert M. Hull
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Bradley Mining Company
Idm-E453, DMEA-2636
Yellow Pine Mine

Dear Mr. Hull:

This office has received a copy of a letter written to Mr. K. G. Wallace, Assistant Manager, Bradley Mining Company, under the names of Messrs. Kiilsgaard and Howard, acting as Field Team Members in regard to the above-cited project. The first paragraph of this letter reads as follows:

> "We note that Amendment No. 2, dated August 21, 1953, does not embody the Agreed Unit Costs for the Stibnite Airport Area. For your information, the diamond drilling will be paid at $4.73 per foot. You should voucher the drilling accordingly."

Please refer to item 4 in Amendment No. 2 to the contract which does provide that the "Stibnite Airport Area" is substituted for the item "C.D.H. Group of Claims" under the heading "Agreed Unit Costs". Therefore, the amendment does provide for the "Stibnite Airport Area" drilling to be on an agreed unit cost basis.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
September 25, 1953

Copy to: Docket
Admr. Reading File
Mr. Ellis
Mr. Chambers

Government Copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 2

It is agreed this 21st day of August, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company, that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract, delete Exhibit "C" and the title thereof, and substitute Exhibit "D" entitled "Bradley Mining Co. - Map of Central Area - Yellow Pine Property," attached hereto.

2. In Annex I, delete the claims C.D.H. Nos. 1 through 9, inclusive, and delete Section 27 referred to in the first paragraph; and add the following claims, located in Sections 15 and 16, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho, owned by the Operator:

Patented Claims	Patent No.
Meadow Creek No. 1	974,550
" " No. 4	974,550
" " No. 5	974,550

Unpatented Claims	Book	Page
Meadow Creek No. 6	6	228
" " No. 11	6	232
" " No. 12	6	233
" " No. 16	6	234
Meadow Quartz No. 1	6	237
" " No. 2	6	238
" " No. 5	6	240
" " No. 6	6	241
" " No. 7	6	248
" " No. 8	6	249
" " No. 9	12	487

Note: Five of the above-listed claims are also included in Contract Idm-E173 (DMEA Tunnel Project), namely:

Meadow	Creek	No. 1
"	"	No. 4
"	"	No. 5
"	"	No. 6
"	"	No. 11

3. In Exhibit "A," under the heading "Description of the work," delete the second sentence of the first paragraph and substitute the following sentences:

> "The proposed drill holes are shown on the map Exhibit 'B,' and in part on the map Exhibit 'D.' The drill holes shown on the map Exhibit 'B' may be changed as to number, location, direction, or depth as a result of new data obtained in the drilling program, subject to prior Government approval. The approximate position of the first drill hole only is shown on the map entitled Exhibit 'D,' and may be changed with Government approval; the number, location, direction, and depth of additional drill holes in the area outlined in Exhibit 'D' will depend upon the results of the first hole and are subject to prior Government approval."

4. In Exhibit "A," under the heading "Estimated Costs of the Project," subheading "Agreed Unit Costs," delete the first item, "C.D.H. Group of Claims," and substitute "Stibnite Airport Area."

5. Annex No. II, attached hereto and made a part hereof, is substituted for that part of Article 9(a) which precedes the colon.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C O Mittendorf
Administrator, Defense
Minerals Exploration
Administration

BRADLEY MINING COMPANY

By John D Bradley

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

ANNEX II

The following provisions are in lieu of all of paragraph (a) of Article 9 which precedes the colon:

If the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after a sufficient, complete, final report and final account referred to in the contract has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development, The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

(Amendment to Change Starting and/or Completion Dates)

AMENDMENT NO. 1

It is agreed this 15th day of December 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration and Bradley Mining Company, 425 Crocker Building, San Francisco, California

(Yellow Pine - Docket DMEA-2636)

each acting in consideration of the agreement to the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E453 dated November 25, 1952 between the parties hereto be modified and amended to change the starting date from 60 (No. of days) to within 180 (No. of days) of the date of the contract and the completion period from 14 (No. of months) to 24 (No. of months) from the date of the contract. The effective date of this amendment shall be December 15, 1952.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region II, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum".

Executed in sextuplicate the day and year first above written.

Bradley Mining Company
(Operator)

By John D. Bradley

THE UNITED STATES OF AMERICA

By A. E. Weissenborn
A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

Bradley Mining Company
Exploration Project Contract Idm-E453
Docket DMEA-2636

Justification for Amendment No. 1

This amendment is necessary because the Operator is unable to commence work according to terms of the contract owing to winter weather conditions. The contract has therefore been amended to extend the starting date for a period of six months. The completion date of the contract has also been extended to six months.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 3 1952

Contr[illegible] No. Idm-E 453

Docket No. DMEA 2636

DEPARTMENT OF THE INTERIOR

Terminated contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
November 25, 1952	I NW	Idaho	Antimony

Name and Address of Operator: Bradley Mining Company
425 Crocker Building
San Francisco 4, California

	Reserve	Obligation
Prior Amount	-0-	$39,750.00
Increase	-0-	-0-
Decrease	-0-	$ 1,481.67
Revised Amount	-0-	$38,268.33

Remarks:

(Name)
Robert B. Adams, Chief
Operations Control and
Statistics Division
(Title)

Date Delivered to Bureau of Mines, Washington 5/29/56

98963

Docket No. ~~DMA 2696~~

Commodity ~~Antimony~~

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration, under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 453

Date of Contract or ~~amendment~~ November 25, 1952

Name and Address of Operator:
Bradley Mining Company
425 Crocker Building,
San Francisco 4, Calif.

Amount of Government participation $39,750.00

Percent of Government participation 75 %

Region: II State: Idaho

(Name)
B. D. Tolbert,
Acting Chief, Contract Administration and Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington. Nov. 25, 1952 13908

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET NO. DMEA 2636

COMMODITY Antimony

Government's Copy

IDM-E 453

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

IT IS AGREED this 25th day of November, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Bradley Mining Company, a corporation duly organized and existing under and by virtue of the laws of the State of California
425 Crocker Building
San Francisco 4, California

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Idaho, County of Valley, ~~described as follows~~: set forth in Annex I and indicated on the maps Exhibits B and C, entitled respectively "Map of Central Area Yellow Pine Property" and "C.D.H. Area Proposed D. D. Holes and Geology" attached hereto and made a part hereof.

the Operator represents and undertakes: [4]

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: 5% royalty on net smelter returns payable to United Mercury Mines Co.

(*b*) ~~That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached.~~

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 60 days from the date of this contract shall commence work on a project of exploration for [5] Antimony

in or upon the described land; and shall bring the project to completion within a period of 14 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following:

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related ~~initial~~ allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A." All of these items are allowable maximums.

(7) *Miscellaneous.*—Repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance and payroll taxes.

(8) *Contingencies.*—Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A," as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay 75 percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $39,750.00, which is 75 percent of $53,000.00, the agreed, estimated total cost of the project in which the Government will participate; *Provided*, that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* ______

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Bradley Mining Company
(Operator)

By John D Bradley

By ______
Administrator, Defense
Minerals Exploration
Administration

I, , certify that I am the secretary of the corporation named as Operator herein; that , who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

______

[CORPORATE SEAL]

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

ANNEX I

The property referred to in Article 2 consists of the following patented and unpatented lode mining claims, located in Sections 3, 10, and 27, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho.

Patented Lode Mining Claims

Claim	Patent No.
Hennessey No. 2	1,111,588
" No. 3	"
" No. 4	"
" No. 5	"
" No. 6	"
Homestake No. 5	"
Monday No. 2	1,120,542
" No. 3	"
" No. 6	"

Unpatented Lode Mining Claims
Recorded at County Seat at Cascade, Idaho

Claim	Book	Page
Monday No. 1	6	210
" No. 4	6	213
" No. 5	6	292
" No. 7	6	215
" No. 8	6	293
" No. 9	6	216
" No. 10	6	217
" No. 11	6	218
" No. 12	6	219
" No. 13	6	294
" No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208
M. W. No. 1	12	504
M. W. No. 2	4	503
A No. 2	12	472
" No. 4	6	202
" No. 5	12	479

Claim	Book	Page
A No. 6	6	204
" No. 7	12	481
C.D.H. No. 1	12	460
" No. 2	12	461
" No. 3	12	463
" No. 4	12	464
" No. 5	12	465
" No. 6	12	467
" No. 7	12	468
" No. 8	12	469
" No. 9	12	470

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

EXHIBIT "A"

Description of the Work

The object of this work is to explore for antimony ores by diamond drilling from the surface and underground an estimated 6,500 feet in four areas known to be geologically favorable. The proposed drill holes are shown on the maps, Exhibits "B" and "C" but with Government approval, their number, location, direction or depth may be changed as a result of new data obtained in the drilling program.

The diameter of the drill holes will depend on the character of the ground, but will at all times be sufficient to provide the geologic information required. Sites for the location of the drill for surface holes will be prepared by bulldozer.

Estimated Costs of the Project
(*Indicates allowable maximum)

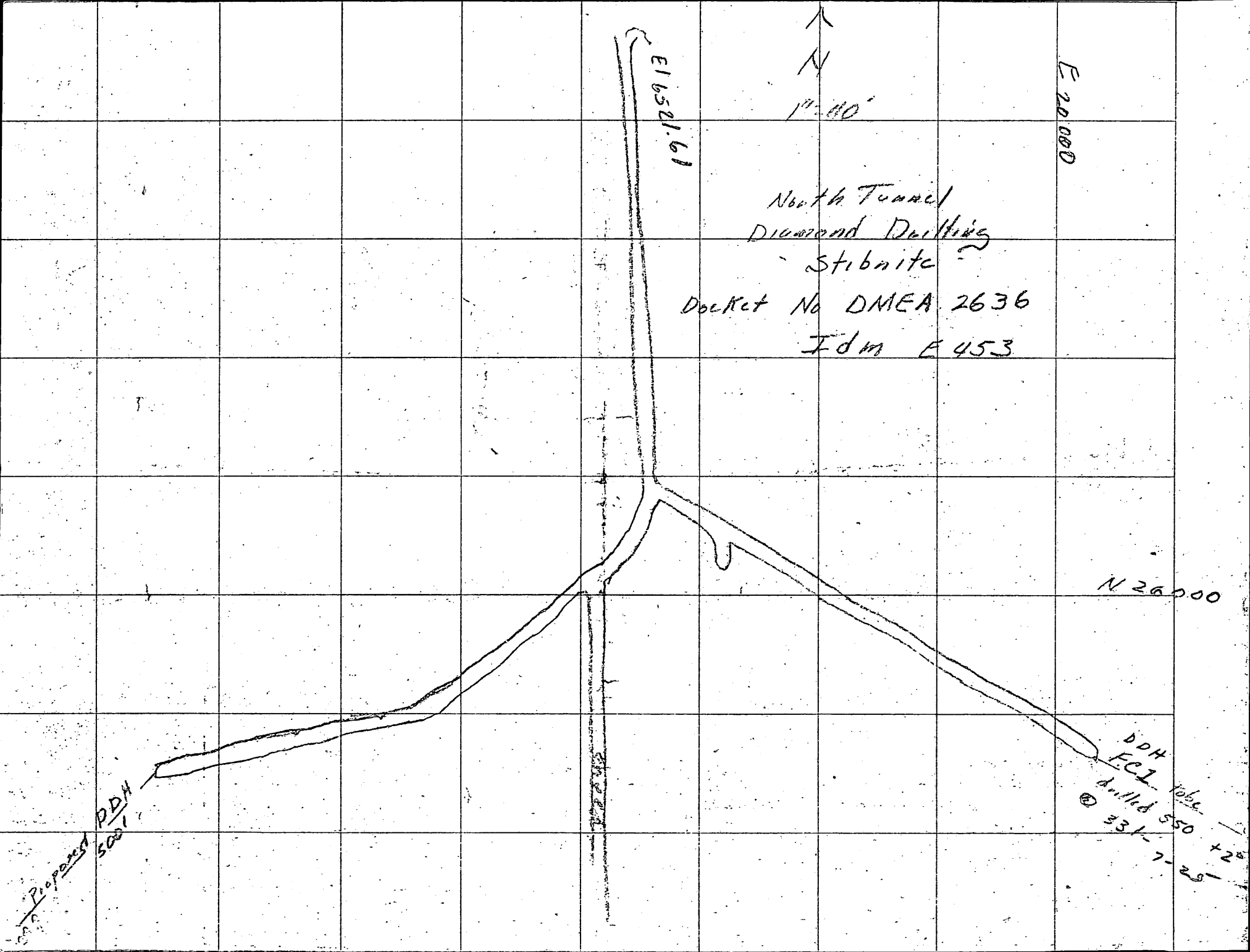
AGREED UNIT COSTS

Diamond Drilling

C.D.H.Group of Claims			
4 holes	3,000 ft. @ $4.73 per ft.	$14,190.00	
Area South East of Pit			
4 holes	1,500 ft. @ $5.02 per ft.	7,530.00	
Hennessey Creek Area			
1 or 2 holes	500 ft. @ $5.10 per ft.	2,550.00	
North Tunnel Area			
3 holes	1,500 ft. @ $4.10 per ft.	6,150.00	
Driving Pipe on surface			
for drill holes	215 ft. @ $9.00 per ft.	1,935.00	
Reaming and Casing			
drill holes	3,850 ft. @ $2.65 per ft.	10,202.00	$42,557.00

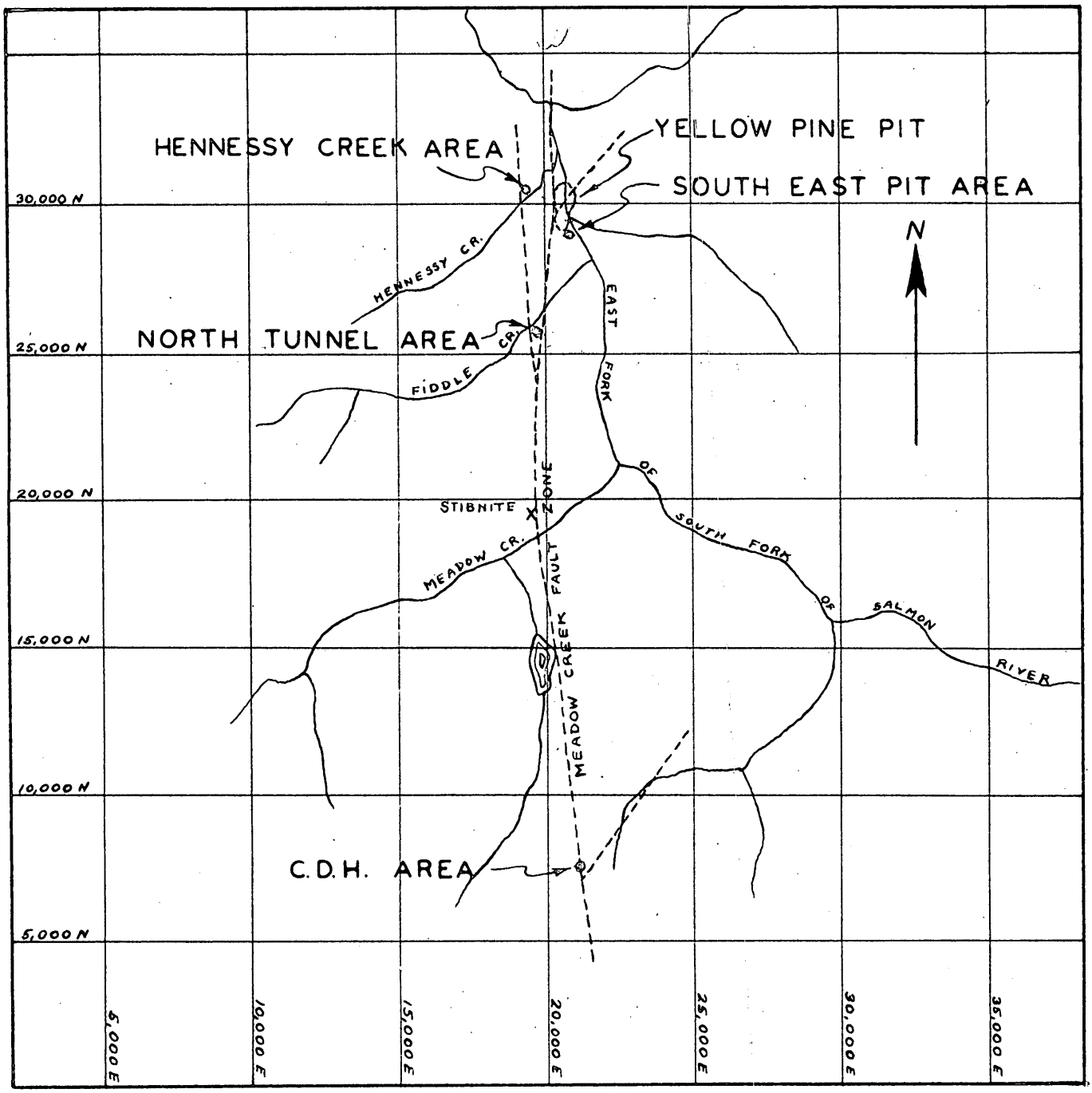
The Government will contribute to the costs of the above specified work on the basis of the above agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

(1)	Independent Contracts		
	None		
(2)	Labor, Supervision, Consultants		
	Technical services		$ 1,000.00*
	Consultants		1,150.00*
(3)	Operating Materials and Supplies		
	1500 ft. 1-inch pipe	$270.00	
	500 ft. 2-inch pipe	225.00	
	4000 board ft. lumber	300.00	
	500 ft. ½-inch cable	95.00	
	Miscellaneous nails, wire, wrenches, etc.	100.00	
	200 drill core boxes	800.00	1,790.00
(4)	Operating Equipment		
	To be furnished by Operator		
	1 - Compressor, 315 cfm Value $10,800.00 (Depreciation allowed for actual time used not to exceed two months)		360.00 *
(5)	Rehabilitation and repairs		
	None		
(6)	New Buildings, Improvements, Installations		
	Drill site preparation for surface holes, 20 days caterpillar work including labor, supplies, maintenance, at $64.00 per day		1,280.00 *
(7)	Miscellaneous		
	Analytical Work	$1,325.00	
	Accounting	500.00	1,825.00
(8)	Contingencies		3,038.00
	Total Estimated Cost of the Project		$53,000.00*
	Government Participation @ 75%		$39,750.00*


N
1" = 40'
E 16521.61
E 20,000
North Tunnel
Diamond Drilling
Stibnite
Docket No DMEA 2636
Idm E 453
N 26,000
DDH
FC1
drilled 550
@ 33
Proposed DDH
500'

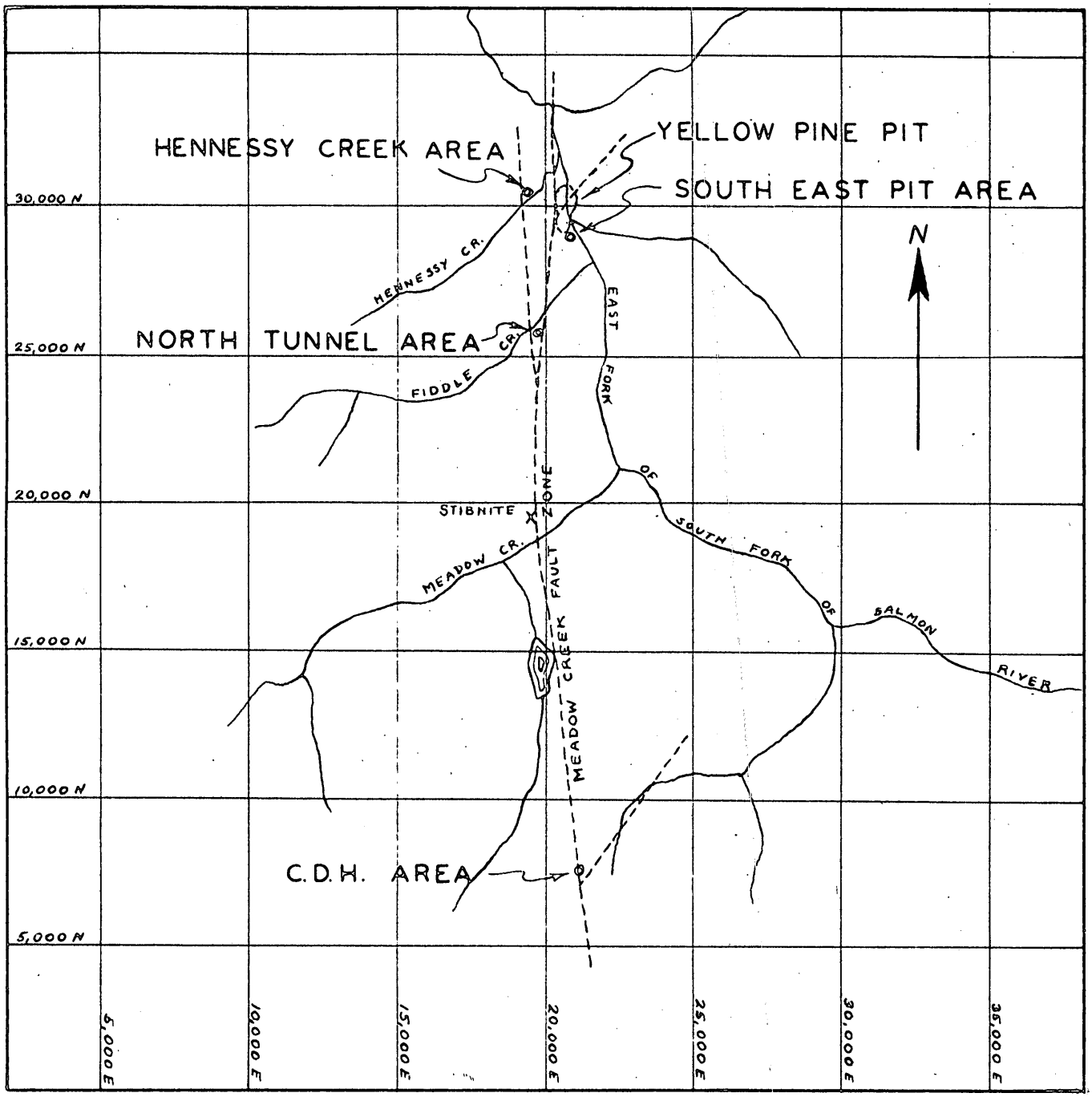
INDEX MAP

STIBNITE DRILLING PROGRAM



BRADLEY MINING CO
425 CROCKER BLDG.
SAN FRANCISCO 4, CA

INDEX MAP
STIBNITE DRILLING PROGRAM



BRADLEY MINING C
425 CROCKER BLD
SAN FRANCISCO 4,

Located in Sec 3-10 x 27
T18N R9E
Boise B.M.
Valley County
Cascade Idaho

Patented

✓ Hermency	#3	1,111,588
✓ "	#5	"
✓ "	#6	"
✓ "	#4	"
✓ "	#2	1,111,588

✓ menday	#2	1,120,542
✓ "	#3	"
✓	#6	"

✓ Homestake	#5	1,111,588

Unpatented

		BK	P
✓ A	#4	6	202
A	#2	2	2
✓ monday	#9	6	216
✓	#10	6	217
✓	#7	6	215
✓	#4	6	213
✓ C.D.H	#5	12	465
✓	#6	12	467
✓	#1	12	460
✓	#2	12	461
✓	#3	12	463
✓	#4	12	464
✓	#7	12	468
✓	#8	12	469
✓	#9	12	470
✓ MKM	#1	12	504
✓ "	#2	4	503
✓ A	#5	12	479
✓ A	#6	6	204
✓ A	#7	12	481

Unpatented

		BK	P
	Monday No 1	6	210
✓	# 5	6	292
✓	# 8	6	293
✓	# 11	6	218
✓	# 12	6	219
✓	# 13	6	294
✓	# 14	6	295
✓	S.J	6	207
✓	" # 2	6	208

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EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 5

It is agreed this 22nd day of August, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading "Estimated Costs of the Project," the items of Diamond Drilling under the subheading "Agreed Unit Costs" are revised to read as follows:

Area Southeast of Pit 3 holes, 1162 ft. @ $5.02 per ft.	$ 5,833.24
North Tunnel Area 2 holes, 951 ft. @ $4.10 per ft.	3,899.10
Menessey Creek Area 2 holes, 586 ft. @ $5.10 per ft.	2,988.60
Airport-Scout Ridge Area 4,149 ft. @ $4.73 per ft.	19,624.77
Driving pipe on surface for drill holes 862 ft. @ $9.00 per ft.	7,758.00
Reaming and casing drill holes 925.77 ft. @ $2.65 per ft.	2,453.29
Total	$42,557.00

The Government will contribute to the costs of the above-specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs.

These unit costs include all costs of the work whatsoever except those actual costs scheduled hereinafter.

* * * * * *

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum", nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C O Mitchener
Administrator, Defense Minerals
Exploration Administration

Anderson
Hoffman
Appl. Sol. Off.
Ching
Ellis
Talbut
Selfridge
F Jensen 10/14/53

BRADLEY MINING COMPANY

By James P. Bradley
Vice President

Division copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 4

It is agreed this 7th day of January, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-2453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

1. In Article 3 of the contract, the period for completion is extended from "24 months" to "33 months." (Amendment No. 1 extended the period from "14 months" to "24 months.")

2. In Article 9 of the contract, as amended by Annex II to Amendment No. 2, substitute the period "twelve years" for the period "ten years."

3. In Article 10 of the contract, that part of the second sentence beginning with the word "Provided" is deleted.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum," nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By O. M. Mitchell
Administrator, Defense
Minerals Exploration
Administration

Rutin
Hoffland
Chung
J. L. Kan
Fahey
Sel.

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JAN 31 1955
U. S. G. S.
SPOKANE, WASH.

BRADLEY MINING COMPANY

By John D. Bradley

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EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 3

It is agreed this 1st day of October, 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract add the letter 'E' after the letter 'D' and add 'Geologic map of Scout Ridge Area' before the words 'attached hereto and made a part hereof.

2. In Annex I add the following claims:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
Meadow Quartz No. 13	12	490
Meadow Quartz No. 14	12	491
Meadow Quartz No. 15	12	493
Meadow Quartz No. 16	12	494
Meadow Quartz No. 17	12	473
Meadow Quartz No. 18	12	475
Meadow Quartz No. 19	12	510
Meadow Quartz No. 20	12	509
Meadow Quartz No. 21	12	508
Meadow Quartz No. 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14, and 15, T. 16 N., R. 9 E., Boise Meridian, Valley County, Idaho.

3. In Exhibit 'A' under the heading 'Description of the Work' delete the word 'four' in the third line of the first paragraph and substitute the word 'five.

4. In Amendment No. 2, item 3, add "and Exhibit 'E'" after the words "Exhibit 'B'" in lines two and four of the paragraph in quotes.

5. In Exhibit "A" under the heading "Estimated Costs of the Project," subheading "Agreed Unit Costs," add "and Scout Ridge Area" after the words "Stibnite Airport Area."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as allowable maximum.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Administrator, Defense Minerals
Exploration Administration

Hoffland

BRADLEY MINING COMPANY

Ching
Chamberlin
Selfridge
Ellis

By John D. Bradley

Division Copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 2

It is agreed this 21st day of August, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company, that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract, delete Exhibit "C" and the title thereof, and substitute Exhibit "D" entitled "Bradley Mining Co. - Map of Central Area - Yellow Pine Property," attached hereto.

2. In Annex I, delete the claims C.D.H. Nos. 1 through 9, inclusive, and delete Section 27 referred to in the first paragraph; and add the following claims, located in Sections 15 and 16, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho, owned by the Operator:

Patented Claims	Patent No.
Meadow Creek No. 1	974,550
" " No. 4	974,550
" No. 5	974,550

Unpatented Claims	Book	Page
Meadow Creek No. 6	6	228
" " No. 11	6	232
" " No. 12	6	233
" " No. 16	6	234
Meadow Quartz No. 1	6	237
" " No. 2	6	238
" " No. 5	6	240
" " No. 6	6	241
" " No. 7	6	248
" " No. 8	6	249
" " No. 9	12	487

Clearance 9/17/53 mend

Note: Five of the above-listed claims are also included in Contract Idm-E173 (DMEA Tunnel Project), namely:

Meadow Creek No. 1
" " No. 4
" " No. 5
" " No. 6
" " No. 11

3. In Exhibit "A," under the heading "Description the work," delete the second sentence of the first para and substitute the following sentences:

> "The proposed drill holes are shown on the map Exhibit 'B,' and in part on the map Exhibit 'D.' The drill holes shown on the map Exhibit 'B' may be changed as to number, location, direction, or depth as a result of new data obtained in the drilling program, subject to prior Government approval. The approximate position of the first drill hole only is shown on the map entitled Exhibit 'D,' and may be changed with Government approval; the number, location, direction, and depth of additional drill holes in the area outlined in Exhibit 'D' will depend upon the results of the first hole and are subject to prior Government approval.

4. In Exhibit A, under the heading "Estimated Costs of the Project, subheading "Agreed Unit Costs," delete the first item, C.D.H. Group of Claims," and substitute "Stibnite Airport Area.

5. Annex No. II, attached hereto and made a part hereof, is substituted for that part of Article 9(a) which precedes the colon.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

Executed in sextuplicate the day and year fi
above written.

THE UNITED STATES OF AME

By C O Mittendo
Administrator, Defense
Minerals Exploration
Administration

Rubin
Hoffman
Chamber

BRADLEY MINING COMPANY

By John D Bradley

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

ANNEX II

The following provisions are in lieu of all of paragraph (a) of Article 9 which precedes the colon:

If the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after a sufficient, complete, final report and final account referred to in the contract has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development, The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

(Amendment to Change Starting and/or Completion Dates)

AMENDMENT NO. 1

It is agreed this 15th day of December 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration and Bradley Mining Company, 425 Crocker Building, San Francisco, California

(Yellow Pine - Docket DMEA-2636)

each acting in consideration of the agreement to the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E453 dated November 25, 1952 between the parties hereto be modified and amended to change the starting date from 60 (No. of days) to within 180 (No. of days) of the date of the contract and the completion period from 14 (No. of months) to 24 (No. of months) from the date of the contract. The effective date of this amendment shall be December 15, 1952.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region II, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum".

Executed in sextuplicate the day and year first above written.

Bradley Mining Company
(Operator)

By John D. Bradley

THE UNITED STATES OF AMERICA

By A. E. Weissenborn
A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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Bradley Mining Company
Exploration Project Contract Idm-2453
Docket DMEA-2636

Justification for Amendment No. 1

This amendment is necessary because the Operator is unable to commence work according to terms of the contract owing to winter weather conditions. The contract has therefore been amended to extend the starting date for a period of six months. The completion date of the contract has also been extended to six months.

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET DMEA

COMMODITY

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Division Copy
Defense Minerals Administration
IDM-E-1150
RECEIVED
DEC 23 1952

EXPLORATION PROJECT CONTRACT[1]

IT IS AGREED this 25th day of November, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] [illegible]

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of [illegible], County of [illegible], described as follows:[3] [illegible]

the Operator represents and undertakes:[4]

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: [illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—66328-1

[CORPORATE SEAL]

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* [illegible]

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By [signature]
[illegible]
[illegible]

[illegible]
(Operator)

By [signature]
[illegible]

I, [illegible], certify that I am the secretary of the corporation named as Operator herein; that [illegible], who signed this contract on behalf of the Operator, was then [illegible] of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[illegible]

(*b*) The Government's payments in [illegible] cases will be based on actual, necessary [illegible] (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay _____ percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $_____, which is _____ percent of $_____, the agreed, estimated total cost of the project in which the Government will participate; *Provided,* that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and [illegible] such property as above provided.

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

ANNEX I

The property referred to in Article 2 consists of the following patented and unpatented lode mining claims, located in Sections 3, 10, and 27, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho.

Patented Lode Mining Claims

Claim	Patent No.
Hennessey No. 2	1,111,588
" No. 3	
" No. 4	
" No. 5	
" No. 6	
Homestake No. 5	
Monday No. 2	1,120,542
" No. 3	
" No. 6	

Unpatented Lode Mining Claims
Recorded at County Seat at Cascade, Idaho

Claim	Book	Page
Monday No. 1	6	210
" No. 4	6	213
" No. 5	6	29[illegible]
" No. 7	6	215
" No. 8	6	293
" No. 9	6	216
" No. 10	6	217
" No. 11	6	218
" No. 12	6	219
" No. 13	6	294
" No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208
M. W. No. 1	12	504
M. W. No. 2	4	503
" No. 3	12	472
" No. 4	6	20[illegible]
" No. 5	12	479

Claim	Book	Page
A No. 6	6	204
" No. 7	12	481
C.D.H. No. 1	12	460
" No. 2	12	461
" No. 3	12	463
" No. 4	12	464
" No. 5	12	465
" No. 6	12	467
" No. 7	12	468
" No. 8	12	469
" No. 9	12	470

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

EXHIBIT "A"

Description of the Work

The object of this work is to explore for antimony ores by diamond drilling from the surface and underground an estimated 6,500 feet in four areas known to be geologically favorable. The proposed drill holes are shown on the maps, Exhibits "B" and "C" but with Government approval, their number, location, direction or depth may be changed as a result of new data obtained in the drilling program.

The diameter of the drill holes will depend on the character of the ground, but will at all times be sufficient to provide the geologic information required. Sites for the location of the drill for surface holes will be prepared by bulldozer.

Estimated Costs of the Project
(*Indicates allowable maximum)

AGREED UNIT COSTS

Diamond Drilling

C.D.H.Group of Claims			
4 holes	3,000 ft. @ $4.73 per ft.	$14,190.00	
Area South East of Pit			
4 holes	1,500 ft. @ $5.02 per ft.	7,530.00	
Hennessey Creek Area			
1 or 2 holes	500 ft. @ $5.10 per ft.	2,550.00	
North Tunnel Area			
3 holes	1,500 ft. @ $4.10 per ft.	6,150.00	
Driving Pipe on surface			
for drill holes	215 ft. @ $9.00 per ft.	1,935.00	
Reaming and Casing			
drill holes	3,850 ft. @ $2.65 per ft.	10,202.00	$42,557.00

The Government will contribute to the costs of the above specified work on the basis of the above agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

(1) Independent Contracts

None

(2) Labor, Supervision, Consultants

Technical services		$ 1,000.00*
Consultants		1,150.00*

(3) Operating Materials and Supplies

1500 ft. 1-inch pipe	$270.00	
500 ft. 2-inch pipe	225.00	
4000 board ft. lumber	300.00	
500 ft. ½-inch cable	95.00	
Miscellaneous nails, wire, wrenches, etc.	100.00	
200 drill core boxes	800.00	1,790.00

(4) Operating Equipment

To be furnished by Operator

1 - Compressor, 315 cfm Value $10,800.00 (Depreciation allowed for actual time used not to exceed two months)	360.00 *

(5) Rehabilitation and repairs

None

(6) New Buildings, Improvements, Installations

Drill site preparation for surface holes, 20 days caterpillar work including labor, supplies, maintenance, at $64.00 per day	1,280.00*

(7) Miscellaneous

Analytical Work	$1,325.00	
Accounting	500.00	1,825.00

(8) Contingencies	3,038.00
Total Estimated Cost of the Project	$53,000.00*
Government Participation @ 75%	$39,750.00*

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET NO. DMEA [illegible]

COMMODITY Antimony

Extra Copy

IDM-E 453

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

IT IS AGREED this 25th day of November, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Blaine Mining Company, a corporation duly organized and existing under and by virtue of the laws of the State of California
[illegible]
[illegible]
[illegible]

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Idaho, County of Valley, described as follows: [illegible] set forth in Annex I and indicated on the maps exhibits 2 and 3, entitled respectively, Map of Central Area Yellow Pine Property and S.E.R. Area proposed D. D. Holes and geology, attached hereto and made a part hereof.

the Operator represents and undertakes:[4]

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: [illegible] 10% on net smelter returns payable to United Geology Mines Co.

(*b*) ~~That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lease is attached.~~

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 60 days from the date of this contract shall commence work on a project of exploration for[5] antimony

in or upon the described land; and shall bring the project to completion within a period of 18 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following:

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related ~~initial~~ allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or [illegible] purchased, installed, or constructed for the purposes of the exploration work, with the estimated [illegible] which is included in the estimate of costs in Exhibit "A." All of these items are allowable [illegible]

(7) *Miscellaneous.*—Repairs to and maintenance of operating equipment [illegible] of the Operator's equipment), analytical work, accounting, workmen's [illegible] payroll taxes.

(8) *Contingencies.*—Such other necessary [illegible] of the total aggregate estimate of costs [illegible] approved by the Government in [illegible]

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[1] If sufficient space [illegible]
[2] State [illegible]

(*b*) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay 75 percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $39,750.00, which is 75 percent of $53,000.00, the agreed, estimated total cost of the project in which the Government will participate; *Provided*, that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* ....

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Bradley Mining Company
(Operator)

By ....

By ....
Administrator, Defense Minerals Exploration Administration

I, , certify that I am the secretary of the corporation named as Operator herein; that , who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

....

[CORPORATE SEAL]

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

ANNEX I

The property referred to in Article 2 consists of the following patented and unpatented lode mining claims, located in Sections 3, 10, and 27, T. 18 N., R. 9 E., Boise Meridian, Valley County, Idaho.

Patented Lode Mining Claims

Claim	Patent No.
Hennessey No. 2	1,111,588
" No. 3	"
" No. 4	"
" No. 5	"
" No. 6	"
Homestake No. 5	"
Monday No. 2	1,120,542
" No. 3	"
" No. 6	"

Unpatented Lode Mining Claims
Recorded at County Seat at Cascade, Idaho

Claim	Book	Page
Monday No. 1	6	210
" No. 4	6	213
" No. 5	6	292
" No. 7	6	215
" No. 8	6	293
" No. 9	6	216
" No. 10	6	217
" No. 11	6	218
" No. 12	6	219
" No. 13	6	294
" No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208
M. W. No. 1	12	504
M. W. No. 2	4	503
" No. 3	12	472
" No. 4	6	202
" No. 5	12	479

Claim	Book	Page
A No. 6	6	204
" No. 7	12	481
C.D.H. No. 1	12	460
" No. 2	12	461
" No. 3	12	463
" No. 4	12	464
" No. 5	12	465
" No. 6	12	467
" No. 7	12	468
" No. 8	12	469
" No. 9	12	470

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

EXHIBIT "A"

Description of the Work

The object of this work is to explore for antimony ores by diamond drilling from the surface and underground an estimated 6,500 feet in four areas known to be geologically favorable. The proposed drill holes are shown on the maps, Exhibits "B" and "C" but with Government approval, their number, location, direction or depth may be changed as a result of new data obtained in the drilling program.

The diameter of the drill holes will depend on the character of the ground, but will at all times be sufficient to provide the geologic information required. Sites for the location of the drill for surface holes will be prepared by bulldozer.

Estimated Costs of the Project
(*Indicates allowable maximum)

AGREED UNIT COSTS

Diamond Drilling

C.D.H.Group of Claims				
4 holes	3,000 ft. @ $4.73 per ft.	$14,190.00		
Area South East of Pit				
4 holes	1,500 ft. @ $5.02 per ft.	7,530.00		
Hennessey Creek Area				
1 or 2 holes	500 ft. @ $5.10 per ft.	2,550.00		
North Tunnel Area				
3 holes	1,500 ft. @ $4.10 per ft.	6,150.00		
Driving Pipe on surface				
for drill holes	215 ft. @ $9.00 per ft.	1,935.00		
Reaming and Casing				
drill holes	3,850 ft. @ $2.65 per ft.	10,202.00	$42,557.00	

The Government will contribute to the costs of the above specified work on the basis of the above agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

(1) Independent Contracts

None

(2) Labor, Supervision, Consultants

Technical services		$ 1,000.00*
Consultants		1,150.00*

(3) Operating Materials and Supplies

1500 ft. 1-inch pipe	$270.00	
500 ft. 2-inch pipe	225.00	
4000 board ft. lumber	300.00	
500 ft. ½-inch cable	95.00	
Miscellaneous nails, wire, wrenches, etc.	100.00	
200 drill core boxes	800.00	1,790.00

(4) Operating Equipment

To be furnished by Operator

1 - Compressor, 315 cfm Value $10,800.00 (Depreciation allowed for actual time used not to exceed two months)	360.00 *

(5) Rehabilitation and repairs

None

(6) New Buildings, Improvements, Installations

Drill site preparation for surface holes, 20 days caterpillar work including labor, supplies, maintenance, at $64.00 per day	1,280.00*

(7) Miscellaneous

Analytical Work	$1,325.00	
Accounting	500.00	1,825.00

(8) Contingencies 3,038.00

Total Estimated Cost of the Project	$53,000.00*
Government Participation @ 75%	$39,750.00*

[X] Audited

[ ] Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of July 24, 1956
Incl. ~~Voucher for~~ Final Audit.

[X] Actual Cost

[ ] Agreed Unit Costs

Name **Bradley Mining Company**

Docket No. **DMEA-2636**

State **Idaho**

Commodity **Antimony**

Idm-E No. **Idm-E453**

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify) Diamond Core	7710	47,357.00	7710	46,236.39	46,236.39
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs		3,638.00		95.36	95.36
Underground Rehabilitation				1,778.51	1,778.51
New Building, Improvements, etc.		1280.00		1,014.43	1,014.43
Other (Specify) Analyses ~~Assaying~~		1,325.00		1,899.75	1,899.75
Totals		53 000.00		51,024.44	51,024.44

Prepared by Michael Ching

71626

Project Summary Report

By: Michael Ching

Date: July 24, 1956

1. Docket No. DMEA-2636
   Contract No. Idm-2453

   Operator - Bradley Mining Company, a California corporation
   1022 Crocker Building
   San Francisco 4, California

   Property - Yellow Pine Mine, consisting of 12 patented and 43 unpatented lode mining claims as follows: Patented claims Hennessey Nos. 2-6, Homestake No. 5, Monday Nos. 2, 3, and 6, Meadow Creek Nos. 1, 4, and 5. Unpatented claims Monday Nos. 1, 4-5, 7-14, S. J., S. J. No. 2, M. W. Nos. 1-2, A Nos. 2, 4-7, Meadow Creek Nos. 6, 11-12, 15, 16, and Meadow Quartz Nos. 1-2, 5-10, 13-21, 27; all in secs. 3, 10, 15, and 16, T. 18 N. R. 9 E., B.M.&B., Valley County, Idaho.

   Operator's Property Rights - Operator is the owner. The contract states that the Subordination Agreement of United Mercury Mines Co., holder of a 5% royalty claim, is attached, but no such agreement is in the files. In a letter dated Jan. 15, 1953, A. E. Weissenborn sent copies of a Guaranty to the Operator for signature, but there is no evidence in the files that a Guaranty was supplied. A rough memo, dated Nov. 12, 1952, by F. S. Schmidt indicated that the Operator's financial standing, stability and integrity can be considered a sufficient guarantee.

2. Contract - dated November 25, 1952 (Long Form)

   Work Authorized (As Amended):

Agreed Unit Costs - Diamond Drilling		
Area Southeast of Pit, 3 holes, 1162 ft. @ $5.02/ft.	$5,833.24	
North Tunnel Area, 2 holes, 951 ft. @ $4.10/ft.	3,899.20	
Hennessey Creek Area, 2 holes, 586 ft. @ $5.10/ft.	2,988.60	
Airport - Scout Ridge Area, 9 holes, 4149 ft. @ $4.73/ft.	19,624.77	
Driving pipe on surface, 862 ft. @ $9.00/ft.	7,758.00	
Reaming and casing drill holes, 925.77 ft. @ $2.65/ft.	2,453.29	
TOTAL		$42,557.00

Actual Costs

Labor, supervision, consultants	$2,150.00	
Operating materials, and supplies	1,790.00	
Operating equipment	360.00	
Installations	1,280.00	
Miscellaneous	1,825.00	
Contingencies	3,038.00	
TOTAL		$10,443.00

Estimated Total Cost of Project $53,000.00
Government Participation @ 75% $39,750.00

Amendments

No. 1 - dated December 15, 1952. Extends starting date from 60 to 180 days, and completion date from 14 months to 24 months from date of contract.

No. 2 - dated August 21, 1953. Deleted map (Exhibit C) and substituted map (Exhibit D). In Annex I deleted the C.D.N. claims in sec. 27 and added 7 Meadow Creek and 7 Meadow Quartz claims in secs. 15 & 16, T. 18 N., R. 9 E. In Exhibit "A" amended the description of the work and under "Agreed Unit Costs" deleted the "C.D.N. Group of Claims" and substituted the "Stibnite Airport Area." Substituted Annex No. II for that part of Article 9(a) preceeding the colon.

No. 3 - dated October 1, 1954. In Article 2 added "Exhibit E, Geologic map of Scout Ridge Area." In Annex I added 1 Meadow Creek and 11 Meadow Quartz claims in secs. 10, 11, 14, and 15, T. 18 N., R. 9 E. In Exhibit "A" amended description of the work by increasing areas to be explored from four to five and adding map (Exhibit E) to map (Exhibit B). Under "Agreed Unit Costs" added "Scout Ridge Area" to "Stibnite Airport Area."

No. 4 - dated January 7, 1955. Completion period extended from 24 months to 33 months. Repayment period extended from 10 years to 12 years. In Article 10 that part of 2nd sentence beginning with the word "Provided" is deleted.

No. 5 - dated August 22, 1955. "Agreed Unit Costs" under Exhibit "A" revised as in "Work Authorized," above.

Work Completed

Agreed Unit Costs - Diamond Drilling

Area Southeast of Pit - as authorized above	$5,833.24	
North Tunnel Area - " " "	3,899.10	
Hennessey Creek Area - " " "	2,988.60	
Airport - Scout Ridge Area " "	19,624.77	
Driving Pipe - " " "	7,758.00	
Reaming & Casing, 919 ft @ $2.65/ft.	2,435.35	
TOTAL		$42,539.06

Actual Costs

Labor, supervision, consultants	$2,150.00	
Operating materials, and supplies	514.00	
Operating equipment (depreciation)	301.94	
Improvements and installations	1,014.43	
Miscellaneous	2,631.14	
Contingencies	1,873.87	
TOTAL		$8,485.30
TOTAL		$51,024.44

The project work was started in June, 1953 and completed in August, 1955. A total of 16 holes totaling 7,710 feet were drilled. Two of the holes were drilled from underground in the North Tunnel.

3. Audit Report

Total Cost as Billed by Contractor	$50,842.91
Additional Costs Allowed	181.53
TOTAL	$51,024.44
Exceptions	None
Total Accepted Cost	$51,024.44
Government Participation @ 75%	$38,268.33

4. Certification of Discovery - None

5. Results and Comments:

The Operator conducted all phases of the project in a competent manner. Considerable delays were met but these were due almost entirely to long severe winters and the fact that most of the work was done on the surface.

Quartz monzonite and related rocks of the Idaho batholith, locally containing large roof pendants of metamorphosed sedimentary rocks, are the principal rocks of the area. Intense and widespread faulting has been accompanied by much shearing in the quartz monzonite. Dikes of basalt, quartz latite prophyry, trachyte, and rhyolite were intruded after the main faulting.

The main ore bodies at the Yellow Pine and Meadow Creek mines occur along the Meadow Creek fault, a shear zone as much as several hundred feet wide, at points where there are northeast-striking branch faults.

The subject exploration was largely directed toward exploring such fault intersections. Three holes in the Area Southeast of Pit

were drilled to test the Home Stake fault. Only minor amounts of gold, stibinite and antimony were present. Two holes in the Hennessey Creek Area were drilled in search of the intersection of the "L" and Meadow Creek faults. No intersection was found and both holes were essentially barren. Two underground holes in the North Tunnel Area were designed to test theintersection of the Fiddle Creek and Meadow Creek faults, but no intersection and no worthwhile mineralization were found.

Three holes were drilled in the Airport Area but they appear to be too far east to locate any ore body that might lie at the intersection of any northeast-striking fault and the Meadow Creek fault. Zones of altered granite containing minor amounts of gold and antimony were present in two holes, and one hole was barren.

Six holes were drilled some 4,000 feet east of the Meadow Creek Fault, in the Scout Ridge Area. Three were barren. One cut a zone 30-35 feet thick averaging 0.109 ounce gold per ton and 0.61% antimony. Another cut a 30-foot zone averaging 0.115 ounce gold per ton and 1.62% antimony. The sixth hole cut a 5-foot zone that assayed 2.60% antimony. This was the most encouraging area explored but it is very unlikely that the material found could be mined economically by underground methods. A certification of discovery is not recommended.

Because mineralization is widespread in the area and geological conditions are favorable for ore deposits it is probable that minable ore bodies exist in the area. Further work by the Government is not warranted unless better targets are established by additional geological investigations.

Michael Ching

MChing/izm 7-24-56
cc to: Docket (original)
Code 700
Mr. Ching
Admr.'s Reading File
F. E. Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. John D. Bradley
Executive Vice President
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

JUL 2 7 1956

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Bradley:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/gla/izm 7-24-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching
Mr. Johnson
Contract Adm. & Audit Div.
DMEA Field Team, Reg. I, NW Dist. (2)

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED
MAY 3 1 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	983.84	41,555.22	42,539.06	983.84	41555.22	42539.06
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
~~Supervision~~ Accountant				500.00	—0—	500.00
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		514.00	514.00		514.00	—0—
Core boxes				514.00	—0—	514.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,014.99	1,014.99		1014.99	1014.43
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	72.00	1,827.75	1,899.75	72.00	1827.75	1899.75
Payroll Taxes				86.15	—0—	186.15
Liability Insurance				145.24	—0—	145.24
Accounting		500.00	500.00		500.00	—0—
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1873.87
TOTALS	1055.84	49,787.07	50,842.91	1237.39	49787.07	51024.44

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 9/26/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 928 03

Signature Myrtle J. Purdy (Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785

(See other side)

adjusted to final audit report.

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date 5/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing G. Agnew Title Acting Exec. Officer Date 5/21/56

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 195 5 Docket No. DMEA 2636 Contract No. Idm-F 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Raises Airport	1'	983.84	208	19,624.77	4149	4.73	3000	4.73
Stopes SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Raises Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
Stope North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Stopes Driving Pipe	1'			7,758.00	862	9.00	215	9.00
Stopes Ream & Case	1'			2,435.35	919	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		72.00		5,365.69				
TOTAL DISTRIBUTED COSTS		1,055.84		47,904.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		1,055.84		50,842.91				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 9/26/55 Operator Bradley Mining Co.

Per G. Winston Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

Is John D Burdell

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR—

RECEIVED
MAY 3 1 1966

September 11, 1955

DMEA Progress Report for August, 1955

Contract Idm-8 453

Progress - Scout Ridge Area

Diamond drill hole SC-63 was completed to a length of 613 feet in August. Total advance during the month was 208 feet.

Average advance in August was 16.6 feet per machine-shift, including tearing down time. Twelve and one-half days were worked on a single shift basis.

The log of the hole is enclosed.

Results

The rock drilled in August was primarily fresh granite, with but relatively few areas of alteration. Ten feet (from 445 to 455 feet) assayed 0.71% antimony and minor stringers of stibnite were noted in the core at 528, 530 and 550 feet. Gold values were consistently very low.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/js

BRADLEY MINING CO.

Stibnite, Idaho

RECEIVED
MAY 3 1 1956

Monthly Supporting Detail

Contract Idm-E 453

August, 1955

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-63	208 ft. at $4.73	$983.84

Item 7 - Miscellaneous

Analytical Work

32 Antimony Assays at $1.50	$48.00	
32 Gold Assays at $0.75	24.00	
(Exceeds contract estimated maximum)		
Total for "Other", Form MF-104A		$ 72.00

COORDINATES 24,348 N
23,161 E

ELEVATION 6554

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-63

BEARING Due East
INCLINATION Minus 49°
Page 1

Footage	Mineralogy	% Core Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -100	Mixed fresh granite and quartzite. Boulders and sand. Impossible to determine where bedrock was entered -- probably somewhere between 60 and 150 Ft.					
100-105	Quartzite. Weathered (iron-stained) along fractures	15				AX
105-110	" " " " " "	15				"
110-115	" " " " " "	1	Nil	.010	.13	"
115-120	" " " " " "	20				"
120-125	Fresh granite. Weathered (iron-stained) along fractures	30				"
125-130	" " " " " " "	15				"
130-135	" " " " " " "	10	Nil	Tr	.11	"
135-140	Mixed fresh granite and quartzite. Weathered along frac.	10				"
140-145	" " " " " " " "	10				"
145-150	No core	0				"
150-155	" "	0				"
155-160	Fresh granite. Weathered along fractures	10	Nil	.005	.05	"
160-165	" " " " "	10				"
165-170	" " " " "	5				"
170-175	" " " " "	10	Nil	.010	.05	"
175-180	" " " " "	10				"
180-185	Fresh and partly altered granite (greenish color). Weathered along fractures.	30				"
185-190	Partially altered granite (greenish color). Weathered along fractures	5	Nil	.005	.07	"
190-195	Partially altered granite (greenish color). Weathered along fractures	5				"
195-200	Fresh and partially altered granite (greenish color). Weathered along fractures	40				"
200-205	Fresh and partially altered granite (greenish color). Weathered along fractures	25	Nil	.005	.03	"
205-210	Fresh and partially altered granite (greenish color). End of weathering at 207'	20	"	.010	.04	"

Footage	Mineralogy	% Core Recovery	% WO_3	Oz. Au	% Sb	Size Core
210-215	Fresh and partially altered granite (greenish color).	15	Nil	.005	.04	AX
215-220	" " " " " " "	90	"	Tr	.12	"
220-225	Essentially altered granite (greenish color). Small stibnite stringer at 223'. Stibnite at 225'	90	"	.005	.12	"
225-230	Essentially altered granite (greenish color). Minor sulfides and Sb.	80	"	.005	.35	"
230-235	Essentially altered granite (greenish color). Good stibnite at 233', small stringer at 230'	90	"	.005	.93*	"
235-240	Altered granite. Small stringers and disseminations of stibnite.	55	"	.005	Core ? .32*	"
240-245	Altered granite; small patches fresh granite. Some stibnite	40	"	.035*	.41*	EX at 242'
245-250	Altered granite. Good stibnite 248 to 250'	45	"	.010	2.60*	EX
250-255	Altered granite. Some fresh granite 253 to 255'. Good stibnite 250 to 251'	35	"	.010	.29*	"
255-260	Mixed fresh and altered granite	15	"	.010	.09	"
260-265	" " " " "	8	"	Tr	.11	"
265-270	" " " " " . Greenish color	40	"	.005	.08	"
270-275	" " " " " " " Some sulfides	60	"	Tr	.10	"
275-280	Greenish colored. Schistose granite to 278. Altered granite with sulfides 278 to 280'	35	"	Tr	.10	"
280-285	Essentially altered granite. Greenish color. Sulfides 280 to 281'	30	"	.005	.05	"
285-290	Essentially altered granite, patches fresh granite. Greenish color	40	"	No sludge		"
290-295	Essentially altered granite, patches fresh granite. Greenish color	15	"	.005	.07	"
295-300	Altered granite. Fine-grained sulfides	10	"	Tr	.07	"
300-305	" " " " "	5	"	Tr	.03	"
305-310	" "	3	"	Tr	.10	"
310-315	No core	0	"	.005	.06	"
315-320	Lamprophyre dike (?) to 317'. Altered granite, some sulfides 317 to 320'. Greenish color	50	"	Tr	.06	"
320-325	Altered granite, some fine-grained sulfides. Greenish color.	70	"	Tr	.11	"
325-330	Altered granite, some fine-grained sulfides. Greenish color.	55	"	Tr	.10	"

Footage	Mineralogy	% Core Recovery	% WO3	Oz. Au	% Sb	Size Core
330-335	No core	0	Nil	Tr	.06	EX
335-340	Altered granite, some fine-grained sulfides. Greenish color	25	"	Tr	.06	"
340-345	Altered granite, some fine-grained sulfides. Greenish color	5	"	Tr	.05	"
345-350	Altered granite, some fine-grained sulfides. Greenish color	5	"	.005	.06	"
350-355	Altered granite. Fine-grained sulfides. Some stibnite	5	"	Tr	.07	"
355-360	" " " " " " "	5	"	.005	.05	"
360-365	Altered granite. Greenish color	5	"	Tr	.04	"
365-370	" " " "	5	"	Tr	.05	"
370-375	" " " "	10	"	Tr	.04	"
375-380	" " " " Patches fresh granite	10	"	Tr	.05	"
380-385	Mainly fresh granite to 384'. Altered granite with sulfides 384 to 385'.	15	"	.005	.05	"
385-390	Altered granite, greenish color.	15	"	Tr	.04	"
390-395	" "	15	"	Tr	.06	"
395-400	" "	15	"	.015	.04	"
400-405	Aplite	15	"	.015	.03	"
405-410	Aplite and fresh granite. Patches of alteration	35	"	.005	.04	"
410-415	" " " " " " "	10	"	.020	.02	"
415-420	Fresh granite	5	"	.005	.04	"
420-425	" "	25	"	.005	.05	"
425-430	" "	50	"	.005	.03	"
430-435	" " to 433, altered granite with fine-grained sulfides 433 to 435'	80	"	.015	.04	"
435-440	Altered granite with fine-grained sulfides to 437', fresh granite 437 to 440'	50	"	.005	.04	"
440-445	Fresh granite	30	"	Tr	.73	"
445-450	Fresh granite, patches of alteration	30	"	.005	.69	"
450-455	Altered granite, fine-grained sulfides	35	"	.025	.37	"
455-460	Fresh granite	95	"	.005	.07	"
460-465	" "	55	"	Tr	.05	"
465-470	" "	60	"	Tr	.03	"
470-475	" " to 474', aplite 474 to 475'	40	"	Tr	.03	"
475-480	Aplite	35	"	.005	.04	"
480-485	"	30	"	.005	.10	"

Footage	Mineralogy	% Core Recovery	% WO	Oz. Au	% Sb	Size Core
485-490	Aplite and fresh granite	35	Nil	.005	.06	EX
490-495	Mainly altered granite with fine-grained sulfides; patches fresh granite	25	"	.020	.06	"
495-500	Mixed altered and fresh granite	30	"	.010	.06	"
500-505	Essentially fresh granite	30	"	Tr	.06	"
505-510	Slightly altered granite	15	"	Tr	.06	"
510-515	" " "	10	"	.005	.01	"
515-520	" " "	10	"	Tr	.02	"
520-525	" " "	30	"	Tr	.03	"
525-530	Fresh granite except altered at 528' and 1/8" stringer stibnite	50	"	Tr	.19	"
530-535	Fresh granite. 1/8" stringer stibnite at 530'	80	"	Tr	.11	"
535-540	Fresh granite.	90)	"	Tr	.04	"
540-545	" "	60)	"			"
545-550	Mixed fresh and altered granite. Stibnite at 550'	45	"	Tr	.07	"
550-555	" " " " "	45	"	.005	.07	"
555-560	" " " " "	20)	"			"
560-565	" " " " "	15)	"			"
565-570	Essentially fresh granite	35)	"	Tr	.04	"
570-575	" " "	35)	"			"
575-580	" " "	35)	"			"
580-585	" " "	25)	"	.005	.07	"
585-590	Aplite and fresh granite	25)	"			"
590-595	" " " "	25)	"			"
595-600	" " " "	30)	"			"
600-605	" " " " Minor alteration	25)	"			"
605-610	" " " " " "	30)	"	.005	.02	"
610-613	Fresh granite	65)	"			"

End of hole at 613 feet.

*Note-all assays are sludge assays except as noted below.
Nil values of WO3 determined by lamping.
All core and sludges lamped.

Footage	Sludge Assays		Core Assays		Weighted Average	
	Au	Sb	Au	Sb	Au	Sb
230-235	.005	.92	.005	.95	.005	.93
235-240	No Sludge 233-242'		.005	.32	.005	.32
240-245	.005	.66	.075	.13	.035	.41
245-250	.010	2.84	.005	.38	.010	2.60
250-255	.010	.21	Tr	.86	.010	.29

DIAMOND DRILL HOLE NO. MC-63

Driller's Notes

Date Start: 5/24/55
Finish: 8/14/55

Driller: Meaning
Helpers: Berkell
Anderson
R. Smith

Footage	Remarks
0 - 65	Pipe driving. Blasted several boulders.
65 - 70	Drilled, cemented.
70 - 75	Cement did not set. Drilled to 75', cemented.
75 - 80	Drilled to 80', cemented.
80 - 85	Drilled to 85', cemented. Decomposed granite.
85 - 90	Drilled 15' cement and on to 90'. Cemented.
90 - 95	Drilled 20' cement and on to 95'. Cemented. Drilled out cement and cased to AX.
95 -115	Quartzite and sand. Cemented.
115-125	Drilled 25' cement and on to 125'. Quartzite and fresh granite. Brownish-grey sludge. Cemented.
125-135	Drilled 11' cement and on to 135'. Fresh granite and sand pockets. Hole caving from 119'. Cemented.
135-145	Drilled 15' cement and on to 145'. Either decomposed granite or sand. Cemented.
145-155	Drilled 10' cement and on to 155'. No core -- sand or decomposed granite. Brown sludge.
155-165	Weathered and fresh granite. Brown to grey sludge. Cemented.
	Drilled 20' cement. Hole went crooked. Cemented.
165-180	Drilled 15' cement and on to 180'. Broken fresh granite. Sludge varied in color from grey to rusty brown. Lots of sandy sludge. Cemented.
	Drilled 25' cement and hole went crooked. Cemented.
180-185	Drilled 18' cement and on to 185'. Fresh, weathered granite. Sludge varied from milky grey to rusty brown.
185-195	Weathered fresh granite. Brownish grey sludge.

Footage	Remarks
195-200	Fresh granite, slightly weathered. Harder and very broken. Sludge varied from grey to milky grey.
200-205	Fresh granite. Very broken. Sludge varied from brownish grey to milky.
205-210	Fresh granite. Greenish-grey sludge. Very soft and broken. Hole caving at 201' and at 185 to 195'. Lost some sludge water. Cemented.
	Drilled 30' cement.
210-215	Lots of talc. Milky and grey sludge.
215-220	Hard. Milky sludge.
220-223	Very hard. Milky and grey sludge. Core blocked.
223-235	Milky to blue sludge. Lost sludge water from 232-233'.
235-242	No sludge return. Hole caving at 118'.
	Cased to EX at 242'. Cemented casing in.
	Drilled 7' cement.
242-245	Milky blue sludge.
245-250	Heavy gouge. Very soft. Sludge turned from milky to dark blue at 247'.
250-255	Some gouge. Very soft and broken. Blue to grey sludge.
255-275	Some gouge. Very soft and broken. Grey sludge. Lost most of sludge water at 270½'. Used sawdust.
275-280	Some gouge. 50% sludge water return. Cemented.
	Drilled 42' cement.
280-285	Gouge. Lost all sludge water at 282'. Cemented.
	Cement did not set.
285-288½	Some gouge. No sludge. Put 1/2 gallon sawdust in hole, got 90% water return.
288½-295	Very soft. Gouge. Milky and grey sludge. Cemented.
	Drilled 15' cement.
295-300	Soft and gougy. Milky and grey sludge.
300-305	Gougy. Thick milky sludge.

Footage	Remarks
305-310	Gougy. Thick milky and grey sludge.
310-315	Very soft. Thick light-grey sludge.
315-320	Dark grey sludge to 319'. Light grey sludge 319 to 320'.
320-325	Very broken, some gouge. Medium to light grey sludge. 50% water return.
325-330	Very broken, some gouge. Milky blue and medium grey sludge. 90% water return.
330-335	Very soft. Milky grey sludge. Good water return.
335-340	Very soft. Sludge turned dark grey at 336'. Good water return.
340-350	Gougy and very soft. Thick dark grey and light grey sludge. 50% water return to 345'. 90% from 345 to 350'.
350-360	Very soft and gougy. Grey and blue-grey sludge. Poor water return to 353', very good from 353 to 360'.
360-369	Very soft and gougy. Sludge return very good. Sludge varied in color from thick dark grey to light grey, occasionally milky blue grey.
369-380	Soft and gougy. Very good sludge return. Milky grey sludge. Hole caving from 360 to 380'.
380-390.	Had to wash and drill from 350 to 380'. Sludge turned from grey to blue-grey at 384' and back to grey at 388'. Had trouble pulling rods.
390-400	Washed and drilled 30' to bottom. Soft and gougy. Medium grey sludge. 60% sludge water return.
400-405	Washed and drilled from 350 to 400'. Some gouge. Poor sludge return. Hole caving badly. Cemented.
	Cement did not set. Washed and drilled to bottom and cemented again.
	Hit cement from 347 to 355'.
	Hole open from 355 to 364' -- no cement. Had gouge and cave at 364'. Drilled to 377' and cemented.
	Hole evidently making water; cement will not set. Drilled and washed from 335 to 405'.
	Pulled 242' EX casing and reamed from 242 to 400'. Cased to EX to 400'.
405-410	Fresh granite and gouge. Grey and milky-grey sludge.

Footage	Remarks
410-420	Some gouge. Thick grey and milky-grey sludge. Very broken.
420-434	Hard and broken fresh granite. Milky-grey sludge.
434-438	Altered. Milky-blue sludge.
438-449	Fresh. Sludge milky-blue from 445 to 448. Soft streaks.
449-454	Mixed fresh and altered granite. Some sulfides and antimony. Blue-grey sludge.
454-479	Fresh, hard and broken. Milky grey sludge.
479-484	Very soft. Milky grey sludge.
484-491	Fresh granite. Milky-blue sludge. Some gouge.
491-494	Altered. Very soft and gougy. Bluish-grey sludge.
494-505	Fresh granite and gouge. Very soft and broken. Thick grey sludge.
505-520	Very soft fresh granite. Thick milky-grey sludge.
520-525	Fresh granite and gouge. Grey sludge.
525-529	Fresh granite. Grey sludge. Stringer of stibnite.
529-535	Fresh granite with altered seams. Milky-blue and grey sludge. Stringer of stibnite, some sulfides.
535-542	Fresh granite. Milky-grey sludge.
542-547	Fresh granite. Grey sludge.
547-554	Slightly altered granite. Sulfides and antimony. Very soft and broken, some gouge. Thick blue-grey sludge.
554-565	Fresh granite with altered seams. Very soft and gougy. Very thick blue-grey sludge.
565-570	Fresh granite. Very soft to 567 feet, harder to 570 ft. Medium-grey sludge.
570-580	Fresh granite; soft to 575 ft., harder 575 to 580 ft. Grey sludge, thick sludge from 570 to 575 ft.
580-585	Fresh granite and gouge. Soft in streaks. Thick grey sludge.
585-595	Fresh granite with gouge streaks. Thick grey and blue-grey sludge.
595-604	Fresh granite; some sulfides. Very soft to 600 ft., much harder from 600 to 604 ft. Grey sludge.

Footage	Remarks
604-609	Fresh granite, some gouge. Grey sludge.
609-613	Fresh granite, a few soft streaks. Grey sludge.

End of hole

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED
MAY 31 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	1553.90	40,001.32	41,555.22	1553.90	40001.32	41556.22
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~xxxx~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		514.00	514.00		514.00	514.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,014.99	1,014.99		1014.99	1014.99
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	97.50	1,730.25	1,827.75	97.50	1730.25	1827.75
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	1651.40	48,135.67	49,787.07	1651.40	48135.67	49787.07

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 5/23/55 *Payee Bradley Mining Co.

Per G. Weston Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1238 55

Signature M. E. P.
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E4453 in accordance with the terms of the contract.

Signature 151 John D Burdell Title Metallurgist Date 4/30/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Wm G Agnew Title Acting Exec Officer Date 5/21/56

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 31 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Airport	1'	1135.20	240	18,640.93	3941	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'			7,758.00	862	9.00	215	9.00
Ream & Case	1'	418.70	158	2,435.35	919	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		97.50		5,293.69				
TOTAL DISTRIBUTED COSTS		1651.40		46,848.91				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		1651.40		49,787.07				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 8/25/55 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

151 John D Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis: "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR-

BRADLEY MINING CO.

Stibnite, Idaho

RECEIVED
MAY 1 1956

Monthly Supporting Detail

Contract Idm-E 453

July, 1955

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-63	240 ft. at $4.73	$1,135.20

Reaming:

Hole MC-63	158 ft. at $2.65	418.70
		$1,553.90

Item 7 - Miscellaneous

Analytical Work

43 Antimony Assays at $1.50	$64.50	
44 Gold Assays at $0.75 (Exceeds contract estimated maximum)	33.00	
Total for "Other", Form MF-104A		$97.50

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

August 11, 1955

DMEA Progress Report for July, 1955

Contract Idm-E 453

Progress - Scout Ridge Area

Diamond drill hole MC-63 was continued in July. The hole was drilled from 165 to 405 feet, for a total advance of 240 feet. In addition, 158 feet of reaming was done (from 242 to 400 feet).

Average advance in July was 9.2 feet per machine-shift. Twenty-six days were worked on a single shift basis. The hole was cemented eleven times.

Results - Scout Ridge Area

Hole MC-63 was in granite throughout the distance drilled in July. The granite was fresh down to 180 feet and then partially altered to 220 feet. At 220 feet an altered, mineralized zone was entered. The zone, with occasional patches of fresh granite, continued to about 360 feet. Areas of heavy gouge were drilled.

The altered, mineralized zone carried but minor amounts of gold. Stibnite was present in the core from 223 to 251 feet. The stibnite-bearing area assayed as follows:

220-225	feet	0.12% Antimony
225-230	"	0.35" "
230-235	"	0.93" "
235-240	"	0.32" "
240-245	"	0.41" "
245-250	"	2.60" "
250-255	"	0.29" "
255-260	"	0.09" "

Drilling continued in August.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	896.00	39,105.32	40,001.32	896.00	39105.32	40001.32
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~xxxx~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	10.92	503.08	514.00	10.92	503.08	514.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,014.99	1,014.99		1014.99	1014.99
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	6.75	1,723.50	1,730.25	6.75	1723.50	1730.25
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	913.67	47,222.00	48,135.67	913.67	47222.00	48135.67

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 5/14/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 685 25

Signature MAP
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

1 cy 1048 [illegible] sent to Wash. 9/8/55

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6453 in accordance with the terms of the contract.

Signature /S/ John D. Bardell Title Metallurgist Date 5/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Wing G. Agnew Title Acting Exec. Officer Date 5/21/56

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED
MAY 31 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	162.00	38,943.32	39,105.32	162.00	38943.32	39105.32
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Mine~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		503.08	503.08		503.08	503.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	281.93	733.06	1,014.99	281.93	733.06	1014.99
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		1,723.50	1,723.50		1723.50	1723.50
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	443.93	46,778.07	47,222.00	443.93	46778.07	47222.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 6/20/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

1 Cy MF 104 F (Instructions on reverse)

Narrative sent. Washington 8/3/55

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 332.95

Signature [signature]
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6453 in accordance with the terms of the contract.

Signature /S/ John D Bardill Title Metallurgist Date 1/27/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 6/27/55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	165.55	38,777.77	38,943.32	165.55	38777.77	38943.32
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		503.08	503.08		503.08	503.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		733.06	733.06		733.06	733.06
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	27.00	1,696.50	1,723.50	27.00	1696.50	1723.50
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify): Preparatory Work		1,923.17	1,923.17		1923.17	1923.17
TOTALS	192.55	46,585.52	46,778.07	192.55	46585.52	46778.07

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 3/21/55 *Payee Bradley Mining Co.

Per G. Clinton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

one Cy 104a - [illegible]
& [illegible]
Wash. 3-23-55

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 144 41

Signature MAP
(Authorized Certifying Officer)

Date 5/24/56 Vou. No. 1785
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ John D. Burdell Title Metallurgist Date 6/29/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldak Title Mining Engr Date 6/29/55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

XXXXXXXXXXXXXXXXX
1201 N. Division Street
Spokane 2, Washington
May 24, 1956

RECEIVED
MAY 28 1956

Mrs. Myrtle Purdy, Certifying Officer
DMEA Field Team, Region I, NW District
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA 2636
Contract No. Idm-E453
Bradley Mining Company

Dear Mrs. Purdy:

Work under the subject contract has been completed to the satisfaction of the Government. A final report evaluating the results of the exploration program has been presented by the Operator and accepted by the Executive Officer.

A Certification of Discovery or Development covering this project will not be recommended by the Field Team.

A final audit certificate and report by DMEA Auditor C. A. Turner has been received.

As all contract requirements have been met, it is requested that final settlement of our account with the Operator be made.

Sincerely yours,

cc: DMEA (2)
USGS (2)

Wing G. Agnew, Acting Exec.
Officer, DMEA Field Team,
Region I, NW District

RECEIVED
MAY 25 1956
U. S. G. S.
SPOKANE, WASH

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
MAY 28 1956

May 24, 1956

Bradley Mining Company
Room 515
660 Market Street
San Francisco, California

Re: Docket No. DMEA-2636 (Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Gentlemen:

Enclosed are copies of the Audit Certificate and the Audit Report for the period November 25, 1952 to August 31, 1955, for your information and files.

Sincerely yours,

A. A. Weissenborn
Executive Officer, DMEA
Field Team, Region I, Mt. District

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Turner
Kellum

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

AUDIT CERTIFICATE

RECEIVED
MAY 17 1956

I have examined the records and transactions of the

Bradley Mining Company
Stibnite, Idaho
and
1022 Crocker Building
San Francisco, California

pertaining to Exploration Project Contract No. Idm-5453, Docket No. DMEA-2636, dated November 25, 1952, including Amendments Nos. 1 to 5 inclusive, covering a project for the exploration of antimony on property known as the Yellow Pine Mine, located at Stibnite, Valley County, State of Idaho, for the period of November 25, 1952 to August 31, 1955.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

The audit disclosed the following facts in regard to the amount to be paid the contractor:

Total Cost as billed by Contractor		$50,842.91
Additional Costs allowed by audit		181.53
Total		$51,024.44
Exceptions (see Audit Report for details)		
Prior to this audit	- 0 -	
During this audit	- 0 -	None
Total Accepted Cost		$51,024.44

The contract calls for a 75 percent participation of exploration expense by the United States Government. Therefore, payment to the contractor by the Government in the amount of Thirty eight thousand two hundred sixty eight and 33/100 Dollars

—— 38,268.33 ——

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted, or will accept the project as having otherwise met the terms of the contract.

May 9, 1956

C. A. Turner, Auditor

Audit
Certificate

AUDIT REPORT

RECEIVED
MAY 17 1956

I. INTRODUCTION

On April 10, 1956 a final audit (covering operations for the period of November 25, 1952 to August 31, 1955) was made of the records and transactions pertaining to Exploration Project Contract No. Idm-E453, Docket No. DMEA-2636, dated November 25, 1952, including Amendments Nos. 1 to 5 inclusive with the:

Bradley Mining Company
Stibnite, Idaho
and
1022 Crocker Building
San Francisco, California

covering a project for the exploration of antimony, on property commonly known as the Yellow Pine Mine, located at Stibnite, Valley County, State of Idaho.

The original accounting records under this contract were maintained by Arnold Souders, Chief Clerk under the direction of B. F. Mahoney, Manager.

J. A. Bardill, Metallurgist and representative of the Field Team, Region I, Northwest District, accompanied the auditor and assisted in the audit. Arnold Souders, Chief Clerk and Keith Wallace, Assistant Manager rendered considerable assistance during the audit.

II. GENERAL INFORMATION ON RECORDS

The general books of the Company were maintained in the San Francisco office, and, therefore were not made available to the auditor during the audit at the mine office located at Stibnite, Idaho. However, all items of original entry were at the mine office and were made available to the auditor.

The Operator's Monthly Report and Voucher Form's MF-104 were prepared at the mine office, Stibnite, Idaho and were forwarded to home office in San Francisco, where they were approved and signed by G. C. Orton, Assistant Secretary of the Company.

Labor and supply items of cost were paid at the mine with checks drawn on the First Security Bank of Idaho, Boise, Idaho. The checks were signed by any two of the following authorized signers, B. F. Mahoney, K. G. Wallace or Arnold Souders.

The actual on-site audit was preceeded by a considerable amount of pre-audit analysis and preparatory work in Spokane, Washington, office of DMEA.

RECEIVED
MAY 17 1956

III. SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs shown in the "Total to Date" column of the Operator's Monthly Report and Voucher Form MF-104, for the month of August 1955.

Documentary support of costs incurred and claimed by the Operator on the Operator's Monthly Report and Voucher Form MF-104 with the exception of equipment purchases was waived by a Field Team Letter to the Operator dated February 20, 1953. Therefore a complete and detailed audit and analysis of all costs was necessary.

The audit findings presented below are those resulting after correction of the cost distributions.

(1) Agreed Unit Costs

Costs allowed the Operator for work performed on the basis of agreed unit costs, for units of work actually performed are as follows:

Agreed Unit Costs

Diamond Drilling			
Area Southeast of Pit	1.162 feet @	5.02 per foot	5,833.24
North Tunnel Area	951 feet @	4.10 per foot	3,899.10
Hennessey Creek Area	586 feet @	5.10 per foot	2,988.60
Airport Scout Ridge	4.149 feet @	4.73 per foot	19,624.77
Driving Pipe for Drill Holes	862 feet @	9.00 per foot	7,758.00
Reaming and Casing	919 feet @	2.65 per foot	2,435.35
Accepted Costs			$42,539.06

Footages and units completed were verified by the final inspection report of John D. Bardill, Metallurgist, U. S. Bureau of Mines, dated October 28, 1955.

(2) Labor and Supervision

The basic record for the labor costs consisted of a monthly payroll which was made from the Employees Monthly Time Sheet on which was recorded daily, the hours worked, location worked, classification of labor, rate of pay and the daily distribution of labor between the Exploration Project and the Operator's other mining and milling activities. The Employees Monthly Time Sheet was made up from the Daily Time Sheet prepared by the employee and approved by the shift boss, which gave the date and shift worked, classification of work, location of work and rate of pay.

Employees whose labor benefited both the exploration project and the Operator's other mining and milling activities, was recorded on the Employees Monthly Time Sheet, on the basis of actual time spent on each job.

Employees were paid at the going rates for like work in the mining district with legal overtime as follows:

Year	1953
Miners	$1.645 to $1.785 per hour
Timber Framer	$1.785 per hour
Machinist	$1.85 per hour
Shift Boss	$465.00 per month
Drill Foreman	$465.00 per month

During the audit the monthly time sheets were checked against the payrolls to verify the distribution of labor applicable to the exploration project and the Operator's other mining and milling activities.

Labor costs determined by this audit to be allowable to the exploration project are as follows:

Labor - Preparatory Work	$1,418.90
Supervision - Technical	1,000.00
Accountant	500.00
Accepted Costs	$2,918.90

Labor of $1,418.90 was all charged to (8) Contingencies - Preparatory Work. This item was discussed with members of the Field Team and it was decided that the preparatory work was a necessary reasonable and direct cost of the project.

Technical charges were for the services of K. G. Wallace, Assistant Manager. During the period of June to October 1953, the claims made on the Forms MF-104 were arbitrary estimates made by Mr. Wallace, while for the balance of the contract a record of the actual time spent on the project was made. The actual time spent on the project was in excess of the claims made by the Operator which did not exceed the "allowable maximum" of $1,000.00.

Consultants Fees were paid to an outside Geologist, Peter Joraleman, 315 Montgomery Street, San Francisco, California. Peter Joraleman was paid for time actually spent on the project at the rate of $50.00 per day for 23 days during July, August and September 1953.

Accepted Costs 23 days @ $50.00 per day $1,150.00

The cost of Peter Joralemon's services were verified by duplicate copies of the voucher check.

The amount claimed did not exceed the allowable maximum of $1,150.00.

Accounting labor was an arbitrary charge made by the Operator to cover the clerical expense of the project. The claim of $500.00 is in the opinion of this auditor, a necessary and reasonable direct cost of the exploration project and as such is an accepted cost.

The allowable maximum of $500.00 was not exceeded.

(3) Operating Materials and Supplies

A stores account and warehouse facilities are maintained by the Operator to supply the mining and milling operations as well as the exploration project with materials and supplies as needed. Purchases are all charged to the stores account with the exception of a few items which are charged direct to the operations. Supplies are warehoused at actual cost, which is the Vendor's invoice price plus freight and delivery charges. Supplies are issued to the mining and milling operations and the exploration project at the actual cost without any markup in price. Any expense incidental to warehousing is absorbed currently as an overhead expense by the Operator in his other mining and milling operations.

Audit of the materials and supplies consisted of an analysis of the warehouse requisitions, which included recomputations, extensions and distribution. Prices used on the warehouse requisitions were compared with the vendor's invoices and freight bills to determine whether or not any markup was being charged to exploration project.

The allowable operating materials and supplies which were charged by the Operator to the exploration project at the same unit price as charged to the Operator's other mining and milling operation are as follows:

Operating Materials and Supplies

Core Boxes		$514.00
(6) Drill Sites for Surface Holes		318.43
(8) Preparatory Work		454.97
		$1,287.40
Transfer to		
(6) Drill Sites	$318.43	
(8) Preparatory Work	454.97	773.40
Accepted Costs		$514.00

(4) Operating Equipment

The acceptable costs under this category were determined to be as follows:

Rental

This item of cost not applicable to this contract.

Purchases

This item of cost not applicable to this contract.

Depreciation

1 Compressor 315 CFM valued at $10,800.00	
Depreciation Charged	
1 21/31 months at $180.00 per month	
Accepted Costs	$301.94

An analysis was made of the daily reports rendered by the shift boss on the job to determine the actual time the equipment was in use on the project.

The allowable maximum of $360.00 was not exceeded.

(5) Initial Rehabilitation and Repairs

This item of cost not applicable to this contract.

(6) New Buildings, Improvements, Installations

Drill Site Preparation for Surface Holes

The allowable costs under this category were found to be as follows:

Tractor Operation	
87 Hours @ $8.00 per hour	$696.00
Lumber	55.17
Pipe and Fittings	263.26
Accepted Costs	$1,014.43

The allowable maximum of $1,280.00 was not exceeded.

(7) Miscellaneous

The allowable costs in this category were determined by audit of the invoices and cancelled checks, or, as in the case of payroll taxes and workmen's compensation insurance by examination of the company's tax returns and insurance policies and reports. The accepted costs were found by the audit to be as follows:

Payroll Taxes	$86.15
Workmen's Compensation	145.24
Sampling and Assaying	1,899.75
Accepted Costs	$2,131.14

Payroll Taxes were determined by an analysis of the Operator's payrolls and the various State and Federal Tax Returns. The State and Federal Tax Returns were examined and the rates were found to be as follows:

Year	1953	1954
Employers Quarterly Federal Tax Return		
Firm No. 94-0337510		
Rates F.I.C.A.	1.5%	2.0%
State of Idaho		
Unemployment Security Agency		
Firm No. 1099-00391		
Rates Unemployment Insurance	1.1%	1.1%
Federal Excise Tax Returns		
Rates Unemployment Insurance	.3%	.3%
Total	2.9%	3.4%

Payroll Taxes Computed	1953	1954
Labor		
Supervision - Technical	$300.00	$200.00
Accounting	400.00	100.00
Preparatory Work	1,418.90	-
	$2,618.90	$300.00
Rates	2.9%	3.4%
Accepted Payroll Taxes	$ 75.95	$ 10.20

Payroll taxes are reasonable and proper under the turms of the contract and are allowed by this audit.

Liability Insurance or workmen's compensation consisted of premiums paid to the Liberty National Insurance Co. Policy No. 19473 whose rates per $100.00 of payroll were as follows:

	1953	1954
Miners Underground	$5.98	$ 6.13
Clerical	.06	.05

Computed as follows

Year of 1953					
Supervision - Technical	$800.00	@	$5.98	$47.84	
Accounting	400.00	@	.06	.24	
Preparatory Work	1,418.90		5.98	84.85	
	$2,618.90				$132.93
Year of 1954					
Supervision - Technical	$ 200.00	@	$6.13	$12.26	
Accounting	100.00	@	.05	.05	
	$ 300.00				12.31
Total Accepted Costs					$145.24
Less Liability Insurance Claimed					49.86
Additional Liability Insurance					$ 95.38

The additional liability insurance is a reasonable and just claim under the terms of the contract and is allowed by this audit.

Sampling and Analysis was found by the audit to cover the cost of assays made in the Operator's laboratory of antimony, gold and tungsten samples. The allowable costs under this category are as follows:

Assays				
Antimony	836	@	$1.50 ea.	$1,254.00
Gold	853	@	.75 ea.	639.75
Tungsten	3	@	2.00 ea.	6.00
Accepted Costs				$1,899.75

The cost per assay, as claimed by the Operator on the Operator's Monthly Report and Voucher Form MF-104 is an arbitrary charge per assay. However, they are considered reasonable and just and are allowed by this audit.

A review of the Operator's Assay Laboratory Operation Costs for the period October 1953 to August 1954 indicated that the Operator's actual cost of assays was in excess of the amount claimed. During this period the Company made

2,277 Determinations @ $3.927 ea. $8,941.67

(8) Contingencies

The audit disclosed, other necessary, reasonable direct cost of performing the exploration work, within the limit of the total aggregate estimates of costs, not included in Exhibit A. This work consisted of the preparation of the North Tunnel area, Pit area and Hennessey Creek area prior to diamond drilling.

The North Tunnel was reopened by the Bradley Mining Company in February 1951. Subsequent to February 1951 and prior to the exploration project work, sections of the tunnel in the Meadow Creek fault zone caved, necessitating an extensive cleanup and some timbering and drill stations. It was also necessary to cleanup slides and install pipe in the Pit area and Hennessey Creek area. This work had the approval of the Government at the time the work was in progress. In a discussion with members of the Field Team during the audit, they upheld the necessity of the work and the propriety of the costs.

This work was not expressly authorized by the contract, but it did have the approval of the Field Team when the work was in process. Accordingly, these costs have been considered as allowable under the specific estimate of $3,038.00 for contingencies in Exhibit A of the contract.

Costs allowed are as follows:

<u>Preparatory Work</u>

Labor		
North Tunnel	$1,323.54	
Pit Area	80.18	
Hennessey Creek	15.18	$1,418.90
Supplies - North Tunnel		
Lumber	119.46	
Explosives	18.10	
Pipe and Fittings	206.63	
Track	38.04	
Air Hose	53.00	
Fuel Oil and Lube	19.27	
Miscellaneous	.47	454.97
Accepted Costs		$1,873.87

The audit disclosed that all costs charged to this project, but including the additions to the Operator's claim under item (7) Miscellaneous, payroll taxes $86.15 and liability insurance $95.38 are reasonable and proper under the terms of the contract.

The adjustments between "Items of Cost" as shown on the August 1955, Operator's Monthly Report and Voucher Form MF-104, the additions to the Operator's claim, and the accepted costs as disclosed by this audit are summarized as follows on the Audit Summary:

AUDIT SUMMARY

	Total Costs August 1955 MF-104	Corrected Distribution	Disallowed By Audit	Accepted Costs
1. Unit Costs				
Diamond Drilling	$42,539.06	$42,539.06	-	$42,539.06
2. Labor and Supervision				
Labor	-	-	-	-
Accountant	-	500.00	-	500.00
Supervision	-	-	-	-
Consultant	1,150.00	1,150.00	-	1,150.00
Technical	1,000.00	1,000.00	-	1,000.00
3. Operating Materials & Supplies				
Timber	-	-	-	-
Explosives	-	-	-	-
Pipe	-	-	-	-
Track	-	-	-	-
Core Boxes	-	514.00	-	514.00
Miscellaneous	514.00	-	-	
4. Operating Equipment				
Rental	-	-	-	-
Purchase	-	-	-	-
Depreciation	301.94	301.94	-	301.94
5. Initial Rehabilitation & Repairs	-	-	-	-
6. New Buildings, Improvements, Etc.	1,014.99	1,014.43	-	1,014.43
7. Miscellaneous				
Sampling and Analysis	1,899.75	1,899.75	-	1,899.75
Payroll Taxes	-	-	(86.15)	86.15
Liability Insurance	-	49.86	(95.38)	145.24
Accounting	500.00	-	-	-
8. Contingencies				
Preparatory Work	1,923.17	1,873.87	-	1,873.87
Total	$50,842.91	$50,842.91	$181.53	$51,024.44

The contract contained items of cost expressly designated as "allowable maximums". The status of the allowable maximums is summarized as follows:

	Allowable Maximums	Accepted Cost	Balance
Technical Services	$1,000.00	$1,000.00	-
Consultants	1,150.00	1,150.00	-
Depreciation - Compressor	360.00	301.94	58.06
Drill Site Preparation	1,280.00	1,014.43	265.57
	$3,790.00	$3,466.37	$323.63

At the conclusion of the audit April 10, 1956, the findings were discussed with Keith Wallace, Assistant Manager and Arnold Souders, Chief Clerk.

The final summarization of facts and findings was discussed with A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, Northwest District.

May 9, 1956

C. A. Turner, Auditor

4-27-56

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 27 1956

April 25, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mr. Selfridge:

Enclosed are the original and one copy of the Operator's final report on a completed diamond drilling project at the Yellow Pine mine.

The Field Team's final report was submitted to Washington January 24, 1956.

By Field Team, Region I, NW Dist.

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure 1 (in dupl.)

cc: USGS (2)
USBM (AD)
Nichols

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APR 20 1956

FINAL REPORT

By The

BRADLEY MINING CO.

To The

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No. DMEA-2636 (Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E 453

By K. G. Wallace

April 7, 1956

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APR 19 1956

Operator's
final report

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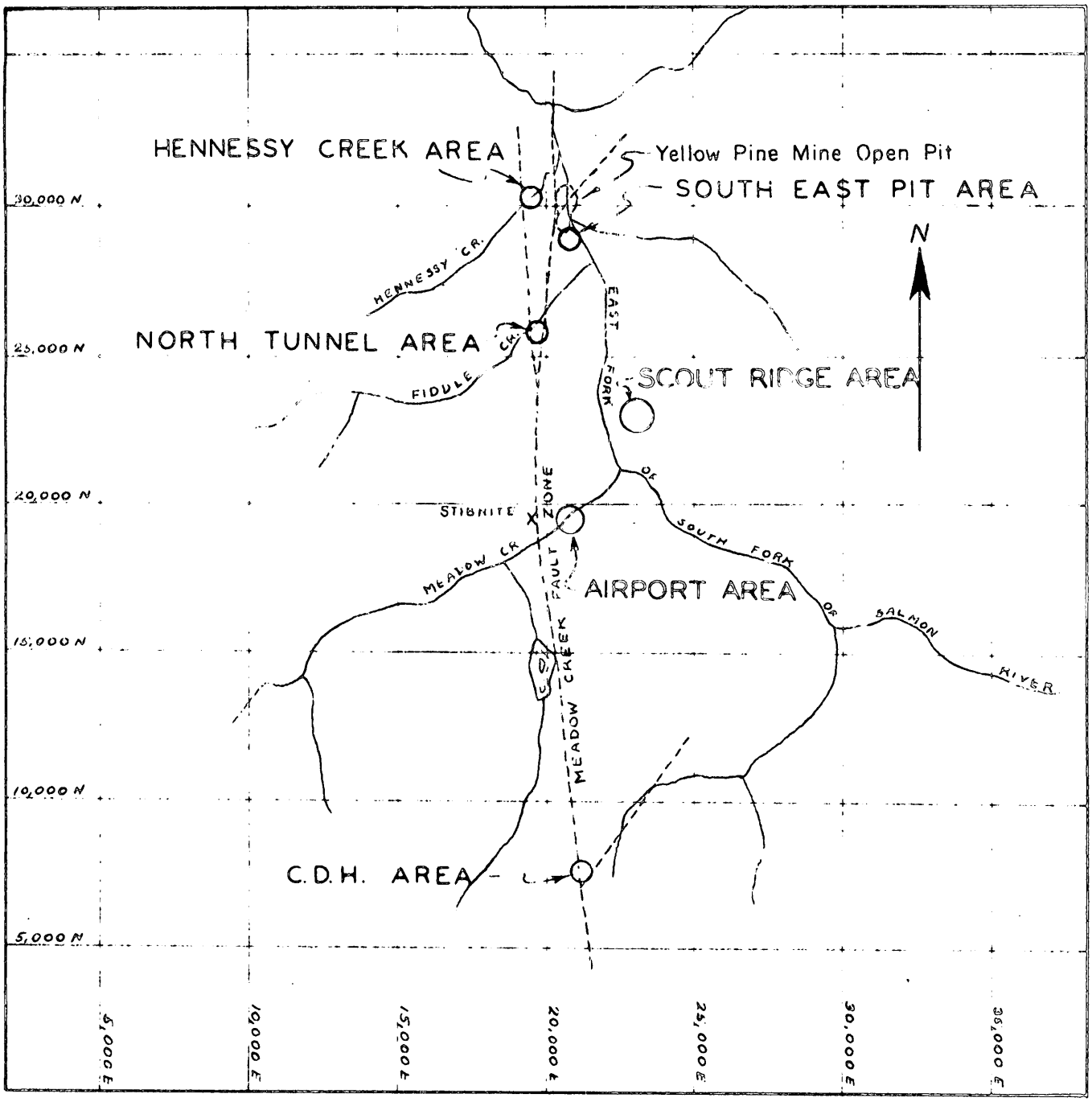
APR 27 1956

INDEX MAP

STIBNITE DRILLING PROGRAM

D.M.E.A. CONTRACT IDM-E453



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Summary

Several areas in the vicinity of Stibnite, Idaho, were explored by diamond drilling. The work was primarily intended as an exploration project for antimony, but it was believed opportunities for finding tungsten and gold should also be good.

Work on the project started in June 1953 and was completed in August 1955.

Sixteen holes totaling 7710 feet were drilled. Five areas were prospected. The maximum allowable contract cost of the project was $53,000.00. The total allowable cost as approved by the D.M.E.A. was $50,842.91. The government paid seventy-five percent of the approved allowable cost, or $38,132.19.

In only one of the areas drilled (the Scout Ridge area) were results encouraging. Even in this area, however, no ore reserves were developed.

Objectives of Exploration Project

The project was based on recommendations made by consulting geologist Carlton D. Hulin. Four areas considered favorable for the occurrence of antimony and gold, and possibly tungsten, were proposed to be diamond drilled. The areas were believed to be promising primarily on the basis of structural intersections along the major north-south Meadow Creek fault zone. Dr. Hulin's theory of vertical zonal distribution of ore minerals in the area was also an important factor in the selection of favorable targets for exploration.

The four areas to be explored were (1) the C.D.H. area; four miles south of the Yellow Pine Mine open pit; (2) the North Tunnel area about one-half mile south of the open pit; (3) the Southeast of Pit area, adjacent to the open pit; and (4) the Hennessy Creek area several hundred feet west of the open pit. All of these areas are along or near the Meadow Creek fault zone, and all are in areas of supposed intersections of cross-structures with the Meadow Creek fault zone.

The North Tunnel area was to be drilled from underground in the North Tunnel. The other three areas were to be drilled from the surface.

After some of the drilling was completed in other areas it was decided not to do the drilling in the C.D.H. area. Instead, the drilling footage allocated for the C.D.H. area was transferred to the Airport area. Later, additional footage was authorized for another area, the Scout Ridge area (in the exploration contract this area was combined with the Airport area and the name "Airport-Scout Ridge Area" was applied to both.

The decision to drill the Airport and Scout Ridge areas rather than the C.D.H. area was based on several factors. The exploration along the Meadow Creek fault zone in the first areas drilled did not locate ore. Also, to a very great extent the program in the C.D.H. area was based on a theory of vertical epithermal zoning of metals deposition. This theory was becoming suspect as a result of the lack of demonstrable support for it in earlier drilling. Reappraisal of the geology of the entire area led to the belief that perhaps shear zones parallel to the Meadow Creek fault zone might be equally as important structural controls of ore deposition as the Meadow Creek fault itself. The results of the drilling in the Scout Ridge area, some 4000 feet east of the Meadow Creek fault, in part at least later justified the change of exploration targets.

Contract Provisions

The exploration contract, dated November 25, 1952, provided for drilling in the various areas at a flat unit cost per foot of drilling, with a different unit cost for each area (ranging from $4.10 per foot in the North Tunnel area to $5.10 per foot in the Hennessy Creek area). Pipe driving through overburden and reaming and casing were also reported on a unit cost basis ($9.00 and $2.65 per foot, respectively). The total estimated allowable cost of the unit cost part of the contract was $42,557.00. Such items as technical services, consultants' fees, drill site preparation, assaying, etc., were provided for with an additional contract amount of $10,443.00.

The total allowable cost of the project was $53,000.00. The total estimated drill footage was 6500.

Although several amendments were made to the contract, none changed the total allowable cost of the project. However, additional drilling beyond the 6500 feet specified in the contract was allowed, within the total maximum contract cost of $53,000.00.

Work Done

Drilling under the contract started in June 1953. Most of the drilling was done during the summer and fall months of 1953 and 1954. The project was completed in August 1955.

The Southeast of Pit area was first drilled with three holes totaling 1162 feet of drilling.

Next, the Hennessy Creek and North Tunnel areas were drilled. Two holes were drilled on Hennessy Creek; total footage was 636. Two holes were drilled from underground in the North Tunnel; total footage was 951.

Three long holes were drilled in the Airport area. Exceptionally deep overburden was encountered in this drilling -- one hole was in overburden 273 feet before reaching bedrock. The total length of the three holes was 2200 feet.

Six holes were drilled in the Scout Ridge area. One of these holes failed to reach bedrock; it was stopped at 174 feet while still in overburden. Drilling at Scout Ridge totaled 2761 feet.

During the three-year life of the exploration project sixteen holes were drilled, totaling 862 feet of pipe driving and 6848 feet of drilling, or a total footage (both pipe driving and drilling) of 7710 feet.

With the exception of the last two holes in the Scout Ridge area, which were drilled by the Bradley Mining Co., all drilling was done under contract by the Nichols and Thompson Core Drilling Co. of Boise, Idaho.

Project Costs

The total of all allowable costs of the project as approved by the D.M.E.A. was $50,842.91. The government paid seventy-five percent of this total, or $38,132.19.

The actual total cost of the project (including costs not allowable under the contract) was $58,572.87. Thus the government paid for 65.1 percent of the actual total cost of the project.

The overall actual average unit cost of the drilling was $7.60 per foot. This average cost includes the costs of pipe driving, drill site preparation, assaying, engineering, and all other fringe costs as well as those costs directly attributable to the actual drilling.

Project Results

Other than moderately encouraging results in the Scout Ridge area, all of the areas drilled proved to be virtually barren.

All three holes in the Southeast of Pit area cut wide zones of alteration and brecciation, with accompanying very low grade antimony-gold mineralization. One of the holes cut an apparently isolated area of antimony (stibnite) mineralization 15 feet wide averaging 2.10 percent antimony.

Other than some areas of altered quartz monzonite carrying minor antimony-gold mineralization, nothing of interest was found in the Hennessy Creek drilling.

The first hole drilled from the North Tunnel disclosed low antimony-gold values throughout most of its length. The highest assays were 0.29 percent antimony and 0.050 oz/ton gold. Wide areas of intensive alteration were found in the first part of the hole. The second hole was in essentially unaltered rock for most of its length, with only traces of antimony and gold present.

None of the three Airport area holes encountered rock of commercial grade. The first two holes cut rather extensive sections of very lean gold mineralization and minor antimony in altered quartz monzonite. The third hole cut only a few narrow patches of altered quartz monzonite.

Four of the six Scout Ridge holes cut a mineralized shear zone trending north-south along the east flank of Scout Ridge. The zone was traced for a distance of 800 feet. The target of this drilling was a wide sheared and altered zone in quartz monzonite having an inner core of metalization about 35 feet wide and averaging 0.81 percent antimony and 0.066 oz/ton gold. These metal values are considerably lower than would be necessary for the zone to be attractive commercially.

Ore Reserves

No ore reserves were developed as a result of this exploration project.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
APR 27 1956

April 25, 1956

Mr. K. G. Wallace, Assistant Manager
Bradley Mining Company
Stibnite, Idaho

Re: Docket No. DMEA-2636 (Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-B453

Dear Mr. Wallace:

This will acknowledge receipt of your final report on the diamond drilling exploration project carried out under Contract Idm-B453.

The report is considered acceptable under the terms of the contract, and as soon as the audit is completed, settlement of your account can be made.

By Field Team, Region I, NW Dist.

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2)
USBM (2)
USBM (AD)
Nickelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

RECEIVED
APR 9 - 1956

1201 N. Division St.
Spokane 2, Washington
March 29, 1956

Mr. B. F. Mahoney, Manager
Bradley Mining Company
Bradley Field
Boise, Idaho

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Ida-E453

Dear Mr. Mahoney:

Mr. Charles A. Turner, DMEA auditor, accompanied by Mr. Bardill, will plan to make a review of the agreed unit cost portion of the subject contract and an audit of the actual costs early in April.

Since it is our understanding that your guest and boarding houses are temporarily closed, we suggest that it might be more convenient for all concerned to have your accountant meet Mr. Turner in Boise with his records. Normally, Mr. Turner would go to Stibnite for the audit. Subject to your approval, he will tentatively plan to be in Boise by noon, April 9, at the Boise Hotel. If this suggestion does not meet with your approval he will plan to fly to Stibnite the following day, subject to weather conditions. Mr. Bardill will accompany him to assist in answering any technical questions which may arise.

Mr. Turner will require the following records to support claims made on Monthly Voucher Forms MF-104:

(2) <u>Labor and Supervision</u>

Monthly payrolls supported by individual time cards which indicate the shifts worked, location of work, classification and rate of pay.

Work sheets indicating method of proration between the DMEA work and other mining activities.

Consultants and technical service for labor not on Bradley payroll to be supported by invoices or other means of presenting their claims.

(3) Operating Materials and Supplies
To be supported by vendors' invoices, the store's withdrawal records for items used, and method of proration on prorated items.

(4) Depreciation
To be supported by record of time used.

(5) Initial Rehabilitation and Repairs
None.

(6) New Buildings, Improvements, Installations
To be supported by labor and supply items.

(7) Sampling and Analysis
To be supported by an analysis of this account, similar to the one supplied for Contract Idm-E173.

Accounting
To be supported by payroll items.

(8) Preparatory Work
To be supported by labor and supply items.

Other items needed

Cost ledger.
Employer's quarterly federal tax returns.
State of Idaho Employment Security Reports.
State of Idaho Insurance Fund Policy and Reports; or if insured by private company, the insurance company policy and report of premiums paid.
Wage schedules.

Please advise whether you prefer to have your accountant meet Mr. Turner in Boise or have him go to Stibnite, and whether the 9th of April is a convenient date.

Sincerely yours,

Wing G. Agnew
Acting Executive Officer
DMEA Field Team, Region I
Northwest District

cc: Bradley Mining Company
1022 Crocker Bldg.
San Francisco, Calif.

DMEA (2)--USGS (2)--Turner

2/8/56 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

February 6, 1956

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team Final Report on the Bradley Mining Company's Yellow Pine Mine, Valley County, Idaho, DMEA Docket 2636 (antimony).

A diamond drilling exploration program, consisting of 16 holes and totaling 7,710 feet of drilling, has been completed at the Yellow Pine mine. The drilling results were negligible and the Field Team recommends that no Certificate of Discovery or Development be issued to the operator.

I concur with the Field Team's recommendations. As described on page 8 of the report, core from several of the holes found minor amounts of antimony and gold mineralization but none of core approached ore grade. Hole DDH MC58 appears to have been the best hole drilled. It found a 30-foot zone from 685 to 715 feet, averaging 0.109 ounce of gold per ton. The same zone from 680 to 715 feet averaged 0.61 percent antimony. This grade of mineralization approaches that of ore mineral in the Yellow Pine open pit, but it could not be considered as ore in an underground operation.

Although project drilling was unsuccessful the Yellow Pine area warrants further Government participation in exploration, if the operator should apply for more exploration assistance and if he should present sound evidence that work done on company account had definitely indicated new targets. The possible antimony-bearing parts of the Yellow Pine area are large, are structurally favorable for the formation of ore deposits, and have produced substantial amounts of metal. From a geological standpoint, there is reason to believe that there are more ore deposits in the area.

RECEIVED
FEB - 7 1956

T. H. Kiilsgaard

Copy to: DMEA (3)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

February 6, 1956

Memorandum

To: D. A. Ellis, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team Final Report on the Bradley Mining Company's Yellow Pine Mine, Valley County, Idaho, DMEA Docket 2636 (antimony).

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I concur with the Field Team's recommendations. As described on page 8 of the report, core from several of the holes found minor amounts of antimony and gold mineralization but none of core approached ore grade. Hole DH #58 appears to have been the best hole drilled. It found a 30-foot zone from 685 to 715 feet, averaging 0.109 ounce of gold per ton. The same zone from 680 to 715 feet averaged 0.61 percent antimony. This grade of mineralization approaches that of ore mineral in the Yellow Pine open pit, but it could not be considered as ore in an underground operation.

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RECEIVED
FEB - 7 1956

T. H. Kiilsgaard

Copy to: DMEA (3)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

February 6, 1956

Memorandum

To: S. H. Ellis, Defense Minerals Exploration Administration

From: T. H. Millegaard, U. S. Geological Survey

Subject: Review of Field Team Final Report on the Bradley Mining Company's Yellow Pine Mine, Valley County, Idaho, DMEA Docket 2636 (antimony).

A diamond drilling exploration program, consisting of 16 holes and totaling 7,710 feet of drilling, has been completed at the Yellow Pine mine. The drilling results were negligible and the Field Team recommends that no Certificate of Discovery or Development be issued to the operator.

I concur with the Field Team's recommendations. As described on page 8 of the report, core from several of the holes found minor amounts of antimony and gold mineralization but none of core approached ore grade. Hole D H F-58 appears to have been the best hole drilled. It found a 30-foot zone from 655 to 715 feet, averaging 0.109 ounce of gold per ton. The same zone from 680 to 715 feet averaged 0.61 percent antimony. This grade of mineralization approaches that of ore mineral in the Yellow Pine mine, but it could not be considered as ore in an underground operation.

Although project drilling was unsuccessful, the Yellow Pine area warrants further Government participation in exploration, if the operator should apply for more exploration assistance and if he should present sound evidence that work done on company account had definitely indicated new targets. The possible antimony-bearing parts of the Yellow Pine area are large, are structurally favorable for the formation of ore deposits, and have produced substantial amounts of metal. From a geological standpoint, there is reason to believe that there are more ore deposits in the area.

RECEIVED
FEB - 7 1956

T. H. Millegaard

Copy to: DMEA (3)

2/6/56 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JAN 31 1956

January 25, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMA-2636 (Antimony)
Bradley Blaine Co.
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-453

Dear Mr. Selfridge:

Enclosed are four copies of a Field Team Final Report written by John [illegible] Cardill, Metallurgist, U. S. Bureau of Mines, and Verne C. Frykland, Jr., and Donald F. Pellum, Geologists, U. S. Geological Survey, on the Yellow Pine Mine.

The authors state that no Certification of Discovery or Development should be made but that the area is worthy of further exploration; however, Government participation is warranted only if new geologic evidence is presented that indicates the presence of new ore bodies on the property or in the Yellow Pine area.

By Field Team, Region 1, [illegible] District

W. [illegible] Weissenborn, Exec. Officer
(U. S. Geological Survey)

[illegible] Chew, Member
(U. S. Bureau of Mines)

Enclosures
cc: DMEA 2
Frykland- Yellow

See maps in jacket

Reviewed by
DMEA OPERATING COMMITTEE
2-3-56
(date)

Final Field Team report recd. 2/6/56

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD TEAM, REGION I
Northwest District

RECEIVED
JAN 31 1956

FINAL REPORT

Contract Idm-E453

by

John D. Bardill
Metallurgist
U. S. Bureau of Mines

Verne C. Fryklund, Jr., and
Donald F. Kellum, Geologists
U. S. Geological Survey

BRADLEY MINING CO.
1022 Crocker Building
San Francisco 4, California

Docket No.:	DMEA 2636
Commodity:	Antimony
Contract date:	November 25, 1952
Completion date:	August 31, 1955

Reviewed by
DMEA OPERATING COMMITTEE
2-3-56
(date)

YELLOW PINE MINE
Yellow Pine Mining District
Valley County, Idaho

Spokane, Washington

January 1956

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Drill Logs — In Pocket

ILLUSTRATIONS

Figure

1 Simplified Geologic Map Showing Diamond Drill Holes, Stibnite Area — In Pocket

FINAL REPORT

BRADLEY MINING CO.
Yellow Pine Mine
Yellow Pine Mining District
Valley County, Idaho

Contract Idm-E453

RECEIVED
JAN 31 1956

* * * *

INTRODUCTION

This report describes an exploration project conducted jointly by the Bradley Mining Co. and the Defense Minerals Exploration Administration at the Yellow Pine mine, Valley County, Idaho.

Summary

The purpose of the project was to explore for antimony ores by diamond drilling from surface and underground locations in five areas at the Yellow Pine mine. Sixteen drill holes totaling 7,710 feet of diamond drilling were completed. Only Drill Holes MC58, MC60, and MC63, in the Scout Ridge area, cut anything that approached the grade of material mined in the open pit. There is some question whether this material could be mined underground at a profit.

Recommendations

No Certification of Discovery or Development should be made. The area is worthy of further exploration, but Government participation is warranted only if new geologic evidence is presented that indicates the presence of new ore bodies on the property or in the Yellow Pine area.

LOCATION AND ACCESSIBILITY

The property is in secs. 3, 10, 15, and 16, T. 18 N., R. 9 E., B. M., Valley County, Idaho.

Two roads provide access to the mine. The old road leaves State Highway 15 at Cascade and passes through Landmark Ranger Station and Yellow Pine enroute to Stibnite. The new road leaves State Highway 15 at McCall and joins the old road at Yellow Pine. Both roads are gravel surfaced, are narrow and winding in places, and may be blocked by snow during the winter. The road to McCall is the shorter and crosses only one pass. Access to the area in winter is usually by airplane, from either Boise or McCall to an airstrip in Stibnite.

PROPERTY

The property in the original contract consisted of the following lode mining claims in secs. 3 and 10, T. 18 N., R. 9 E., B. M., Valley County, Idaho.

Patented Lode Mining Claims

Claim	Patent No.
Hennessey No. 2	1,111,588
" No. 3	"
" No. 4	"
" No. 5	"
" No. 6	"
Homestake No. 5	"
Monday No. 2	1,120,542
" No. 3	"
" No. 6	"

Unpatented Lode Mining Claims
Recorded at County Courthouse at Cascade, Idaho

Claim	Book	Page
Monday No. 1	6	210
" No. 4	6	213
" No. 5	6	292
" No. 7	6	215
" No. 8	6	293
" No. 9	6	216
" No. 10	6	217
" No. 11	6	218
" No. 12	6	219
" No. 13	6	294
" No. 14	6	295
S. J.	6	207
S. J. No. 2	6	208
M. W. No. 1	12	504
M. W. No. 2	4	503
A No. 2	12	472
A No. 4	6	202
A No. 5	12	479
A No. 6	6	204
A No. 7	12	481
C.D.H. No. 1	12	460
" No. 2	12	461
" No. 3	12	463
" No. 4	12	464
" No. 5	12	465
" No. 6	12	467
" No. 7	12	468
" No. 8	12	469
" No. 9	12	470

Amendment No. 2, dated August 21, 1953 (effective November 25, 1952), deleted C.D.H. Nos. 1 through 9 claims in sec. 27 and added the following claims owned by the Operator located in secs. 15 and 16, T. 18 N., R. 9 E., B.M., Valley County, Idaho.

Patented Claims	Patent No.
Meadow Creek No. 1	974,550
" " No. 4	"
" " No. 5	"

Unpatented Claims	Book	Page
Meadow Creek No. 6	6	228
" " No. 11	6	232
" " No. 12	6	233
" " No. 16	6	234
Meadow Quartz No. 1	6	237
" " No. 2	6	238
" " No. 5	6	240
" " No. 6	6	241
" " No. 7	6	248
" " No. 8	6	249
" " No. 9	12	487

Amendment No. 3, dated October 1, 1954 (effective November 25, 1952), added the following unpatented lode mining claims located in secs. 10, 11, 14 and 15, T. 16 N., R. 9 E., B.M., Valley County, Idaho:

Claims	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
" " No. 13	12	490
" " No. 14	12	491
" " No. 15	12	493
" " No. 16	12	494
" " No. 17	12	473
" " No. 18	12	475
" " No. 19	12	510
" " No. 20	12	509
" " No. 21	12	508
" " No. 27	12	476

The contract and amendments indicate Bradley Mining Company is the owner of the claims but subject to a 5 percent royalty on net smelter returns payable to United Mercury Mines Company.

The only mine workings with which the project was concerned are the east and west crosscuts of the North Tunnel where Holes FC-1 and FC-2 were drilled from underground sites.

GEOLOGY

Description of the general geology and ore deposits of the Stibnite area may be found in the following publications:

Cooper, John R., 1950, Geology of the tungsten, antimony, and gold deposits near Stibnite, Idaho: U. S. Geol. Survey Bull. 969-F, p. 151-152.

White, D. E., 1940, Antimony deposits of the Yellow Pine district, Valley County, Idaho: U. S. Geol. Survey Bull. 922-I.

_____, 1942, Memorandum report on tungsten and antimony at Yellow Pine mine, Valley County, Idaho, unpublished.

_____, 1946, Geologic map of the Yellow Pine area, Valley County, Idaho: U. S. Geol. Survey strategic min. investig. preliminary map (scale 1:48,000).

The abstract of Cooper's report is quoted below.

"The deposits of tungsten, antimony, silver, and gold described in this report occur in an area about a mile wide and 3½ miles long near the town of Stibnite, Valley County, Idaho. Ore has been mined from only two deposits in the area, the Yellow Pine and Meadow Creek mines of the Bradley Mining Co. The Yellow Pine mine was the largest source of tungsten and antimony ores in the United States from 1942 to 1944. Gold and silver ores also are taken from this mine. Only gold, antimony, and silver ores were mined in the Meadow Creek mine, which was closed in 1938.

"Quartz monzonite and related rocks of the Idaho batholith, locally containing large roof pendants of metamorphosed sedimentary rocks, are the principal rocks of the area. Intense

and widespread faulting, controlled in part by older structures in the sedimentary rocks, has been accompanied by much shearing in the quartz monzonite. Dikes of basalt, quartz latite porphyry, trachyte, and rhyolite were intruded after the main faulting but before the final fault movements.

"Metalization took place in three stages, with intervening periods of fracturing. The first stage is represented by extensive replacements by gold-bearing pyrite and arsenopyrite, the second by less extensive replacement by scheelite within the gold ore bodies, and the third and final stage by replacements by stibnite and silver, localized in part by the same fractures that localized the scheelite.

"The main ore bodies occur along the Meadow Creek fault, a shear zone as much as several hundred feet wide cutting the quartz monzonite. The ore bodies are localized by changes in strike or dip of the main fault zone and by intersecting subsidiary faults associated with these changes. The tungsten-antimony ore body at the Yellow Pine mine has the general shape of a flat upright funnel flaring to its widest diameter at the surface and tapering to a narrow neck, which extends below the bottom of the minable tungsten ore. The under side of the ore body is very irregular in detail. The highest grade of tungsten ore was concentrated toward the center of the mass and was surrounded by an envelope of antimony ore containing only a little tungsten. The richer gold ore bodies not only are clustered around the antimony 'funnel' but are distributed elsewhere in and near the fault zone where there is little associated tungsten and antimony ore.

"Ore mined at the Meadow Creek mine contained 0.23 ounce of gold per ton and 1.6 percent of antimony. That mined at the Yellow Pine mine contained less gold but about 4 percent of antimony and 2 percent of WO_3.

"The tungsten ore body at the Yellow Pine mine was exhausted in 1945. A total of 831,829 units of WO_3 were contained in the tungsten concentrates produced. Antimony and gold are still being produced from the mine.

"Reserves of antimony at the Yellow Pine and Meadow Creek mines were estimated on June 1, 1943, at nearly 40,000 tons of metallic antimony contained in indicated ore averaging more than 1 percent of antimony, and more than 20,000 tons in indicated gold ores averaging less than 1 percent of antimony. Additional amounts may be produced from now undeveloped prospects in the area.

"The antimony at the Yellow Pine and Meadow Creek mines, and presumably that in the other deposits, contains silver in the approximate ratio of half an ounce of silver to 20 pounds of antimony.

"The Yellow Pine mine will probably be a gold producer for many years to come because of its sizable reserve of indicated gold ore. Other mines and prospects in the area should add to the total gold output. The district is believed to contain nearly 600,000 ounces of gold in indicated ore averaging 0.1 ounce per ton or better, and about 140,000 additional ounces of recoverable gold in antimony ore."

THE PROJECT

The Stibnite mine was the largest tungsten producer in the United States during World War II; the mine was also the largest antimony producer in the United States. It was hoped that diamond drilling would find other minable bodies of stibnite and scheelite ore. The project was strongly recommended by Ira B. Joralemon and Carlton D. Hulin, consultants for the company; subsequently a recommendation for such exploration was made by A. E. Weissenborn, Geological Survey, in a memorandum dated August 25, 1952.

The original proposal by the applicant in July 1952 was to drill four diamond drill holes totaling 3,000 feet in the C.D.H. Group, three holes totaling 1,500 feet in North Tunnel Area, four holes totaling 1,500 feet in the Southeast of Pit Area, and one 500-foot hole in the Hennessey Creek Area. Estimated total cost of the project was $49,962.50.

The contract was approved November 25, 1952, essentially the same as the application in the amount of $53,000.00. The diamond drilling was to be done on an agreed unit cost basis with allowances for supervision, materials and supplies, and contingencies. Government participation in the cost of the project was to be 75 percent.

Amendment No. 1, dated December 15, 1952, extended the starting time from 60 to 180 days because of the severe winter weather conditions.

The diamond drilling was started in June 1953.

Amendment No. 2, dated August 21, 1953 (effective November 25, 1952), deleted the C.D.H. mining claims and drilling in that area and substituted claims and drilling in the Stibnite Airport Area.

Amendment No. 3, dated October 1, 1954 (effective November 25, 1952), added drilling in the Scout Ridge area comprising 12 claims. This area was added because it was believed to be more favorable geologically for discovering ore.

Amendment No. 4, dated January 7, 1955 (effective November 25, 1952), extended the time for completing the contract from 24 months to 33 months to allow a recess during the winter.

Amendment No. 5, dated August 22, 1955 (effective November 25, 1952), adjusted some differences in drilling footages and costs in the contract.

The contract drilling was completed in August 1955.

Description of Work Completed

Diamond drilling done under the project is summarized in the following tabulation:

Hole No.	Length (feet)	Inclination	Bearing	N. Coord.	E. Coord.	Collar Altitude (feet)
B217	371	-22°	S. 12° E.	29,901	20,833	6,070
B218	500	-10°	S. 25° E.	29,589	20,388	6,072
B219	291	-10°	S. 87° E.	29,593	20,391	6,072
B220	278	-60°	S. 4° E.	30,182	19,516	6,366
B221	358	-60°	S. 63° W.	30,175	19,510	6,367
FC1	476	+ 1°	S. 62° E.	25,937	20,019	6,523
FC2	475	-18°	N. 53° W.	25,968	19,683	6,525 ±
MC55	750	-50°	S. 47°30' E.	19,952	20,419	6,546
MC56	748	-50°	S. 47° E.	19,723	20,098	6,550
MC57	703	-47°30'	N. 47° W.	19,169	21,029	6,548
MC58	735	-20°	N. 75° E.	23,396	22,607	6,445
MC59	135	-50°	N. 75° E.	23,361	22,484	6,430
MC60	488	-45°	N. 77° E.	23,627	23,028	6,570
MC61	174	-47°	N. 85° W.	24,028	23,378	6,566
MC62	510	-40°	N. 75° E.	23,918	23,011	6,518
MC63	613	-49°	East	24,348	23,161	6,554

The drill holes are shown on the accompanying map (fig. 1); the Operator's logs and assays are in the pocket.

DDH B217 was drilled to test the Home Stake fault. Minor amounts of gold and stibnite were present in much of the hole but there was nothing approaching ore grade. Minor amounts of gold and antimony were in DDH 218 and 219.

DDH B220 and B221 were drilled in a search for the intersection of the "L" fault and the Meadow Creek fault. No such intersection could be found and both holes were essentially barren.

DDH FC1 was drilled underground from the North Tunnel. The hole was drilled to the southeast but only minor amounts of gold and antimony were found. DDH FC2, also an underground hole, was supposed to cut the Meadow Creek fault near its intersection with the Fiddle Creek fault, based on the assumption that the Meadow Creek fault lies west of the North Tunnel. This assumption was not valid as the hole was in unaltered, barren rock.

DDH MC55 was drilled to explore beneath the alluvial flat that forms the airport area. Zones of altered granite containing minor amounts of gold and antimony were present. DDH MC56 was drilled for the same reason as DDH MC55, and with the same results. The highest assays were 0.095 ounce of gold per ton, and 0.12 percent antimony. DDH MC57 drilled in the same area was essentially barren.

DDH MC58 was drilled in the Scout Ridge area. A 30-foot zone, 685 to 715 feet, averaged 0.109 ounce of gold per ton and a 35-foot zone, 680 to 715 feet, averaged 0.61 percent antimony. According to the Operator this approaches the value of ore mined in the open pit.

DDH MC59, in the same area, was barren. It tested the granite-quartzite contact on the west flank of Scout Ridge.

DDH MC60 was drilled to test the zone cut in DDH MC58. A 30-foot zone, 315 to 345 feet, averaged 0.115 ounce of gold per ton and 1.62 percent antimony.

DDH MC61 was collared in alluvium. It was abandoned at 174 feet still in gravel.

DDH MC62 was designed to cut the ore zone cut in DDH MC58 and MC60. The ore zone was not present.

DDH MC63 cut a zone from 245 to 250 feet that assayed 2.60 percent antimony; otherwise this hole was also barren.

Summary of Factual Data

Sixteen holes were drilled, aggregating 7,710 feet; this included 862 feet of driving pipe and 926 feet of reaming and casing.

The total amount of the contract was $53,000.00, of which approximately $50,850.00 was expended with the Government participating in 75 percent of that amount.

The following is the approximate cost of the project, subject to final audit:

Item	Total Cost	Cost per ft. of diamond drilling (6848 feet)
(1) Independent Contracts:		
Agreed Unit Costs		
Area Southeast of Pit, 3 holes 1,162 feet @ $5.02/ft.	$ 5,833.24	
North Tunnel Area, 2 holes 951 feet @ $4.10/ft.	3,899.10	
Hennessey Creek Area, 2 holes 586 feet @ $5.10/ft.	2,988.60	
Airport-Scout Ridge Area, 9 holes 4,149 feet @ $4.73/ft.	19,624.77	
	$32,345.71	$4.72
Driving pipe 862 feet @ $9.00/ft.	7,758.00	1.13
Reaming and casing 925.8 feet @ $2.65/ft.	2,453.29	0.36
(2) Labor and Supervision:		
Consultant	1,150.00	0.17
Technical Services	1,000.00	0.16
(3) Operating Materials & Supplies:		
Miscellaneous	514.00	0.07
(4) Operating Equipment:		
Depreciation	301.94	0.04
(6) New Buildings, Improvements, etc.:	1,014.99	0.15
(7) Miscellaneous:		
Sampling and analysis	1,899.75	0.28
Accounting	500.00	0.07
(8) Contingencies:		
Preparatory work	1,923.17	0.28
Totals	$50,860.85	$7.43
Government participation @ 75 percent	$38,145.64	$5.57

There was no production from this project.

The Government does not have an equity in any equipment. The materials, supplies, and improvements were expended.

Discussion of Conclusions

The Operator conducted all phases of the project in a competent manner. Delays were due almost entirely to long severe winters when it was impractical to work outside.

The problem of district exploration will be considered at greater length in the final report on the other DMEA Stibnite Contract No. Idm-E173, but some useful comments can be made at this time.

It has been assumed that the Meadow Creek fault is the major geologic feature in the area. The Stibnite and Meadow Creek mines are along the Meadow Creek fault at points where there are northeast-striking branch faults.

Not surprisingly, exploration has been directed toward exploring other such fault intersections. Regrettably, the drill holes directed to such assumed intersections were largely barren, and no rock even approaching ore grade was cut.

It seems to the writers that DDH MC55, MC56, and MC57 (fig. 1), in the Airport area were drilled too far east to locate any ore body that might lie at the intersection of any northeast-striking fault and the Meadow Creek fault.

If there is a Fiddle Creek fault DDH FC1 and FC2 have hardly explored the fault intersection at any useful positions.

Although the Meadow Creek fault may be the major ore structure in the area, as shown by the Scout Ridge drilling, near-ore grade material is not entirely confined to areas adjacent to the Meadow Creek fault. There may be several lesser north-south structures both west and east of the Meadow Creek fault that should be first located, probably by much more detailed surface mapping, and then explored as seems desirable.

Further underground work, or surface diamond drilling, is not warranted until there has been a comprehensive reappraisal of the geology of the area. The quickest and most direct way to determine if there are hidden antimony- and scheelite-bearing structures outside present stream channels would be by a soil sampling survey. The presence of an antimony smelter in the area would not preclude soil sampling.

Enclosures

Distribution:

DMEA	(4)	Docket
USBM	(5)	Fryklund
USBS	(SRO)	

1-10-56 [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

So. 157 Howard Street
Spokane 4, Washington

January 5, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

For your information, we will not recommend certification of the Bradley Mining Company diamond drilling project at the Yellow Pine Mine.

We will recommend a certification of the underground project at the Yellow Pine mine (Docket DMEA-1284) but that will be the subject of a later letter.

By Field Team, Region I, NW District

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agney, Member
U. S. Bureau of Mines

cc: USGS (2)
USBM (AD)
Kellum

RECEIVED
JAN 9 1956

11-8-55 izm

RECEIVED
OCT - 7 1955

xxxxxxxxxxxxxxxxxx

1201 N. Division St.
Spokane 2, Washington
October 28, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John D. Bardill, Bureau of Mines

Subject: Final inspection report, Docket No. DMEA-2636 (antimony), Bradley Mining Company, Yellow Pine Mine, Valley County, Idaho, Contract No. Ida-8453

The project work consisting of the following diamond drilling was finished in August 1955 to complete this contract on an agreed unit cost basis.

Area southeast of pit 3 holes - 1162 feet @ $5.02/ft.	$ 5,833.24
North Tunnel area 2 holes - 951 feet @ $4.10/ft.	3,899.10
Hennessey Creek area 2 holes - 586 feet @ $5.10/ft.	2,988.60
Airport-Scout Ridge area 4,149 ft. @ $4.73/ft.	19,624.77
Driving pipe on surface for drill holes 862 ft. @ $9.00/ft.	7,758.00
Reaming and casing drill holes 919 ft. @ $2.65/ft.	2,435.35
	$42,539.06

The Government participation in the cost is 75 percent.

Geological Survey geologists will log the drill cores and map the location of the drill holes. Recommendation for certification of discovery is being withheld until the cores have been carefully examined.

John D. Bardill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
AD
Turner
JDB/ne

10/31/55-gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 28 1955

October 25, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Ida-2453

Dear Mr. Selfridge:

Attached are the Government, Docket and Division copies of Amendment No. 5. Distribution of this amendment is being made in the usual manner. This amendment was prepared in Washington in accordance with the Operator's request.

Sincerely yours,

Verne C. Fryklund, Jr.
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Attachments as indicated

cc: Finance Office w/encl.
USBM (2)
Kellum

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 21 1955

October 13, 1955

Mr. G. C. Orton, Asst. Secretary
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

Re: Docket No. [illegible]-2636 (antimony)
Yellow Pine Line
Valley County, Idaho
Contract No. Ida-453

Dear Mr. Orton:

Enclosed are the original and five copies of proposed Amendment No. 5 to this contract which has been revised by our Washington office.

If this amendment meets with your approval, please properly execute all copies, retain the copy marked "Operator's", and return the others to this office.

Sincerely yours,

A. A. Weissenborn
Executive Officer, DMEA
Field Team, Region 2
Northwest District

Enclosures
cc: [illegible] 2
[illegible]
[illegible]
Valley

700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OCT 14 1955

Mr. A. E. Weissenborn
Executive Officer, Northwest District
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

Enclosed are the original and five copies of proposed Amendment No. 5 to the subject contract, revised in accordance with the information enclosed with your letter of October 4.

You will note that we have used the completed footage and amount for the Airport-Scout Ridge Area, and adjusted the footage and amount for reamfing and casing so that the total amount remains at $42,557.00.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

MChing/gla
10-12-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Resnick, Rm. 3624
T. H. Kiilsgaard, Rm. 5224
Code 700
Mr. Ching

Division copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 5

It is agreed this 22nd day of August, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading "Estimated Costs of the Project," the items of Diamond Drilling under the subheading "Agreed Unit Costs" are revised to read as follows:

Area Southeast of Pit 3 holes, 1162 ft. @ $5.02 per ft.	$ 5,833.24
North Tunnel Area 2 holes, 951 ft. @ $4.10 per ft.	3,899.10
Henessey Creek Area 2 holes, 586 ft. @ $5.10 per ft.	2,988.60
Airport-Scout Ridge Area 4,237 ft. @ $4.73 per ft.	20,041.01
Driving pipe on surface for drill holes 862 ft. @ $9.00 per ft.	7,758.00
Reaming and casing drill holes 768.7 ft. @ $2.65 per ft.	2,037.05
Total	$42,557.00

The Government will contribute to the costs of the above-specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs.

Government's copy

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636

AMENDMENT NO. 5

It is agreed this 22nd day of August, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading "Estimated Costs of the Project," the items of Diamond Drilling under the subheading "Agreed Unit Costs" are revised to read as follows:

Area Southeast of Pit 3 holes, 1162 ft. @ $5.02 per ft.	$ 5,833.24	
North Tunnel Area 2 holes, 951 ft. @ $4.10 per ft.	3,899.10	
Henessey Creek Area 2 holes, 586 ft. @ $5.10 per ft.	2,988.60	
Airport-Scout Ridge Area ~~4,237~~ 4,149 ft. @ $4.73 per ft.	~~20,041.01~~ 19,624.77	
Driving pipe on surface for drill holes 862 ft. @ $9.00 per ft.	7,758.00	
Reaming and casing drill holes ~~768.7~~ 725.77 ft. @ $2.65 per ft.	2,453.29 ~~2,037.05~~	
Total		$42,557.00

The Government will contribute to the costs of the above-specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs.

10/10/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
No. 157 Howard Street
Spokane 4, Washington

RECEIVED
OCT 10 1955

October 4, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2536 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Dmn-1453

Dear Mr. Selfridge:

The Bradley Mining Co. has returned unsigned the copies of Amendment No. 5 to the referenced contract.

The enclosed letter from the company, dated September 26, 1955, is self-explanatory. Would you please refer to our letter of September 23, 1955, to the Operator. (Copies previously sent to Washington.)

By Field Team, Region I, NW District

A. F. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: BLM (2)
BLM (AD)
Sellum

JAMES P. BRADLEY
VICE PRESIDENT

JOHN O. BRADLEY
EXECUTIVE VICE PRESIDENT

BRADLEY MINING CO.
100 SOCIETY BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

ANTHONY
TREASURER
WILLIAM QUIGLEY
ASSISTANT TREASURER

RECEIVED
BUREAU OF MINES
SEP 24 1955
SPOKANE, WASH.

RECEIVED
OCT 10 1955

September 26, 1955

Pacific Minerals Exploration Administration
1201 N. Division Street
Spokane 2, Washington

re: Docket No. PMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Im-1453

Gentlemen:

As suggested, we return herewith all copies of Amendment No. 5, with the request that it be rewritten so as to cover the expenses as incurred in completing the contract. It is now obvious that a misunderstanding occurred between Mr. Wallace and your office as to the amount of the unexpended reaming and casing funds to be transferred to additional drilling in the Airport-Scout Ridge Area.

The tabulation attached is given for your convenience in preparing the items in question.

It is our request that the amendment be redrawn either per the "As Requested" column or per the "Contract As Completed" column, as may be most convenient to you.

Yours very truly,

BRADLEY MINING CO.

By

Assistant Secretary

Encl.

COPY

Defense Minerals Exploration Administration
September 26, 1955

RECEIVED
OCT 10 1955

	Amend. #5 As Submitted	As Requested	Contract As Completed*
Area Southeast of Pit			
1162 ft. @ $5.02	$ 5,833.24	$ 5,833.24	$ 5,833.24
North Tunnel Area			
951 ft. @ $4.10	3,899.10	3,899.10	3,899.10
Hannessey Creek Area			
586 ft. @ $5.10	2,988.60	2,988.60	2,988.60
Airport-Scout Ridge Area			
4237 ft. @ $4.73	20,041.01		
4152 ft. @ $4.73		19,638.96	
4149 ft. @ $4.73			19,624.77
Driving Pipe			
862 ft. @ $9.00	7,758.00	7,758.00	7,758.00
Reaming & Casing			
768.7 ft. @ $2.65	2,037.05		
920.415 ft. @ $2.65		2,439.10	
919 ft. @ $2.65			2,435.35
	$42,557.00	$42,557.00	$42,539.06

* Per August 1955 report submitted separately.

9/27/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

[redacted]

1201 N. Division St.
Spokane 2, Washington
September 23, 1955

RECEIVED
SEP 26 1955

Mr. G. C. Orton, Asst. Secretary
Bradley Mining Company
1022 Crocker Building
San Francisco 4, California

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-8453

Dear Mr. Orton:

This is in reply to your letter of September 12, concerning Amendment No. 5 to the referenced contract.

Mr. Wallace had requested that unused funds for reaming and casing drill holes be allocated for additional drilling in the Airport-Scout Ridge area. A change in agreed unit cost items requires that the amendment be written in Washington, which was done with the information available at that time (August 5, 1955).

When the amendment was received from Washington and submitted for your approval on August 26, 1955, we had not yet received your July 1955 voucher. The difference between reaming and casing in the amendment and in your July voucher is 151 feet, costing $400.15, which was difficult to foresee at the time the amendment was written.

If the amendment is unacceptable, will you please return all copies together with a letter stating your objections, and we shall transmit them to Washington, D.C. for their action.

By Field Team, Region 1, DMEA District

Verne G. Fryklund, Acting Exec. Officer
U. S. Geological Survey

Stephen . Zoldok, Acting Member
U. S. Bureau of Mines

cc: A. G. Wallace, Stibnite, Idaho

DMEA (2)
USGS (2)
USBM (AD)

RADLEY
PRESIDENT
ADLEY
IVE VICE PRESIDENT
ONY
GSTEN
GIN QUICKSILVER

JAMES P. BRADLEY
VICE PRESIDENT
E.A. GRIFFEN
SECRETARY

RECEIVED
BUREAU OF MINES
SEP 16 1955
SPOKANE, WASH.

BRADLEY MINING CO.

1022 CROCKER BUILDING
SAN FRANCISCO 4, CALIFORNIA
TELEPHONE SUTTER 1-0414

September 12, 1955

RECEIVED
SEP 26 1955

Mr. Wing G. Agnew
Acting Executive Officer
Defense Minerals Exploration Administration
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Agnew:

We acknowledge receipt of your letter of August 26 to Mr. Bradley and the copies of the proposed Amendment No. 5 to the subject contract.

The amendment was submitted to our Stibnite office for approval prior to its execution, and they advise that it is not quite in accordance with their understanding of the matter. It is their belief that the difference is due to the amendment's having been prepared prior to your receipt of our July 1955 report instead of afterward as intended.

It is believed that the amendment should read as follows:

"Area Southeast of Pit 3 holes, 1162 ft, at $5.02 per foot	$ 5,833.24
North Tunnel Area 2 holes, 951 ft. at $4.10 per foot	3,899.10
Hennessey Creek Area 2 holes, 586 ft. at $5.10 per foot	2,988.60
Airport-Scout Ridge Area 4152 ft. at $4.73 per foot	19,638.96
Driving pipe on surface for drill holes 862 ft. at $9.00 per foot	7,758.00
Reaming and casing drill holes 920.415 ft. at $2.65 per foot	2,439.10
Total	$42,557.00"

The above will be in agreement with our final report for the project, which will be submitted in the near future.

We shall hold all copies of the proposed amendment pending your advice to return them or the issuance of a further amendment to effect the necessary correction.

Yours very truly,

BRADLEY MINING CO.

By

Assistant Secretary

GCO:MV

We are [illegible]

[illegible] up on

[illegible] as [illegible]

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all possible or very

nearly so.

104A
(6-1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
SEP 12 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Airport	1'			17,032.73	3601	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	162.00	18	7,335.00	815	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other				5,178.52				
Total Distributed Costs		162.00		44,283.84				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		281.93		1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		443.93		47,222.00				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 6/20/55 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

RECEIVED
SEP 12 1955

June 13, 1955

DMEA Progress Report for May, 1955

Contract Idm-E 453

Scout Ridge

Diamond drilling in the Scout Ridge area was resumed for the first time since drilling was recessed in January, 1955.

Hole MC-63 was started in May. It was collared some 400 feet north of hole MC-62 and is being drilled due east at an inclination of minus 49°. The hole is located so as to cut the wide mineralized shear zone previously located in holes MC-58, MC-60 and MC-62.

The hole was collared in overburden and 18 feet of pipe had been driven through overburden by the end of the month. Ten days were worked on a single shift basis (most of this time was required to prepare the drill site, move and set up the drill and tripod, and lay water pipe). Average pipe driving advance was 1.8 feet per machine-shift, including moving and setting-up time.

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

C O P Y

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

BRADLEY MINING CO.

Stibnite, Idaho

RECEIVED
SEP 12 1955

Monthly Supporting Detail

Contract Idm-E 453

May, 1955

Item 1 - Unit Costs, Diamond Drilling

Driving Pipe

Hole MC-63	18 ft. at $9.00	$162.00
	(In excess of contract pipe driving footage)	

Item 6 - New Buildings, Improvements, Etc.

17 hours tractor work at $8.00	$136.00	
726 feet 1-inch water pipe at $0.201	145.93	
		$281.93

-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
SEP 12 1955

Month of June 1955 Docket No. DMEA 2636 Contract No. Idm-F 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Airport	1'	473.00	100	17,505.73	3701	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	423.00	47	7,758.00	862	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		17.67		5,196.19				
Total Distributed Costs		913.67		45,197.51				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,014.99				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		913.67		48,135.67				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 8/14/55 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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GPO 872894

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

July 3, 1955

RECEIVED
SEP 12 1955

DMEA Progress Report for June, 1955

Contract Idm-E 453

Progress - Scout Ridge Area

Diamond drill hole MC-63 was continued in June. Pipe was driven through overburden for 47 feet (down to 65 feet) and the hole was drilled an additional 100 feet (down to 165 feet).

The depth at which the hole entered bedrock was impossible to determine -- it was probably somewhere between 60 and 150 feet. Pipe driving was extremely slow, so the method of drilling five or ten feet and cementing was adopted to speed up progress. Average pipe driving advance was 3.6 feet per shift; average drilling advance was 7.7 feet per shift. Overall average advance for the month was 5.7 feet per shift.

Twenty-six days were worked on a single shift basis. The hole was cemented eleven times. At the end of the month ground conditions remained bad and progress remained slow.

Results - Scout Ridge Area

Hole MC-63 was alternately in quartzite and fresh granite. Sludges were collected starting at 100 feet -- metal values were practically absent (averages: 0.005 oz/ton gold and 0.10% antimony). If the Scout Ridge mineralized shear zone continues the trend indicated in previous drilling, it should be intersected at somewhere between 170 and 200 feet in hole MC-63.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR-

BRADLEY MINING CO.

Stibnite, Idaho

RECEIVED
SEP 12 1955

Monthly Supporting Detail

Contract Idm-E 453

June, 1955

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-63	100 ft. at $4.73	$473.00

Driving Pipe:

Hole MC-63	47 ft. at $9.00	423.00
		$896.00

Item 3 - Operating Materials and Supplies

Miscellaneous -- Core Boxes	$ 10.92

Item 7 - Miscellaneous

Analytical Work

3	Antimony Assays at $1.50	$4.50	
3	Gold Assays at $0.75	2.25	6.75
	Total for "Other", Form MF-104A		$ 17.67

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington

RECEIVED
AUG 29 1955

August 26, 1955

Mr. J. D. Bradley, President
Bradley Mining Company
1022 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Bradley:

Enclosed are the original and six copies of Amendment No. 5 signed by the Administrator. This amendment allocates unexpended funds for completion of diamond drilling in the Scout Ridge area.

If this amendment meets with your approval, please sign all copies, retain the Operator's copy, and return the remaining copies to this office.

Sincerely yours,

Wing G. Agnew
Acting Executive Officer
DMEA Field Team, Region I
Northwest District

Enclosures

cc: K. G. Wallace, Stibnite, Idaho
DMEA (2)
USGS (2)
USBM (AD)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

9 1955

Mr. A. L. Weissenborn
Executive Officer
DMEA Field Team, Region 1
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

In accordance with your letter of July 25, and teletype of August 5, we are enclosing a proposed Amendment No. 5 to the subject contract, signed by the Administrator.

If you and the Operator find the amendment in order please have all six copies signed by the latter and make the usual distribution thereafter.

It is noted that the completion date of this contract is August 25, 1955. Since you did not recommend a further extension under Amendment No. 5 we assume that the contract will either be completed on time or that we will receive your recommendation to further amend the contract.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

Approved:

/s/ Robert W. Geehan
Member, Bureau of Mines

/s/ N. E. Nelson
Member, Geological Survey

MChing:am
8-18-55 - 8-22-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Reniek, Rm. 3624
T. H. Killingsgard, Rm. 5222
Code 700
Mr. Ching

August 9, 1955

Memorandum

To: Acting Assistant Solicitor, Defense Minerals

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2153
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Will you kindly prepare a proposed Amendment No. 5 to the subject contract in accordance with the attached draft.

/s/ Michael Ching

Michael Ching

Attachment

MChing/gla
cc to: Docket
Code 700
Mr. Ching

DRAFT
8/9/55
MChing/gla

AMENDMENT NO. 5

It is agreed this day of , 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636), dated November 25, 1952, as amended, is further amended effective November 25, 1952, as follows:

In Exhibit "A" under the heading, "Estimated Costs of the Project," subheading "Agreed Unit Costs Diamond Drilling," delete all items and substitute the following:

Area Southeast of Pit		
3 holes, 1162 ft. @ $5.02 per ft.	$5,833.24	
North Tunnel Area		
2 holes, 951 ft. @ $4.10 per ft.	3,899.10	
Hennessy Creek Area		
2 holes, 586 ft. @ $5.10 per ft.	2,988.60	
Airport-Scout Ridge Area		
4,237 ft. @ $4.73 per ft.	20,041.01	
Driving pipe on surface for drill holes		
862 ft. @ $9.00 per ft.	7,758.00	
Reaming and casing drill holes		
768.7 ft. @ $2.65 per ft.	2,037.05	
Total		$42,557.00

The Government will contribute to the costs of the above specified work on the basis of the agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These

unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "allowable maximum," nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By_____
Administrator, Defense Minerals
Exploration Administration

BRADLEY MINING COMPANY

By_____

8/8/55 gla

C
O
P
Y

YWB110 WAF SP 21 I-BOM

SPOKANE WN 8-5-55 410P

W S MARTIN ACTING CHAIRMAN OPERATING COMM DMEA DEPT OF INTERIOR

WA

RE SUGGESTED AMENDMENT NO 5 BRADLEY MINING COMPANY DOCKET 2636

WE SUGGEST THE FOLLOWING

FIRST 3 ITEMS	$12,720.94
AIRPORT - SCOUT RIDGE AREA 4237 FT AT $4.73 PER FOOT	$20,041.01
DRIVING PIPE ON SURFACE 862 FEET AT $9.00 PER FOOT	$7,758.00
REAMING AND CASING 768 FEET AT $2.65 PER FOOT	$2,037.05
TOTAL	$42,557.00

WING G AGNEW MEMBER DMEA FIELD TEAM REGION I. NORTHWEST DIST.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AUG - 3 1955

DEPARTMENT OF THE INTERIOR

DMEA

14X1401(C1)Revolving Fund, Defense Production Act (Interior, (Allocated Working Fund to the Office of the Secretary)

XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

T E L E T Y P E

A. R. WEISSENBORN
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION I
MINERAL DISTRICT
SUITE 257 HOWARD BUILDING
SPOKANE 4, WASHINGTON

RE SUGGESTED AIRCRAFT NO. 5 MAPLE MINING COMPANY DOCKET 2636

WE PREFER DEFINITE FIGURES FOR LAST TWO ITEMS.

IS FOLLOWING ACCEPTABLE:

FIRST 3 ITEMS	$12,720.94
AIRPORT - SQUEE RIDGE AREA 4237 FEET @ $4.73 PER FOOT	$20,041.01
DRIVING PIPE ON SURFACE 850 FEET @ $9.00 PER FOOT	$7,650.00
REAMING AND CASING 809.45 @ $2.65 PER FOOT	$2,145.05
TOTAL	$42,557.00

ABOVE ALLOWS ONE ADDITIONAL HOLE AFTER DC-62 UP TO 636 FEET IN DEPTH AND 53 FEET PIPE DRIVING AND 48.45 FEET REAMING AND CASING IF REQUIRED.

W. S. Martin

ACTING Chairman, Operating Committee

Mr. Ching
Messrs. KUCHENBECK
A. Rendick, Rm. 3624
T.M.Killingsgard,Rm.5222
Code 700
cc to: Admr. Reading File
Operating Committee
Docket
Ching
8-3-55

MT-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE JUL 28 1955

REFERRED TO:

1. Mr. Berry
2. Mr. Fels
3. Mr. Chin
4. Mr. Chin

FOR: Contract file

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS:

Mr. Wolfinger on board.

Proposed amendment

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

7/27/55 gla

708

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.
~~XXXXXXXXXXXXXXXXXXXX~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JUL 28 1955

July 25, 1955

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Ida-2453

Dear Mr. Selfridge:

Enclosed are two copies of proposed Amendment No. 5 to the subject contract, with Justification, to allow allocation of unexpended funds for completion of diamond drilling in the Scout Ridge area.

It is the belief of the Field Team that it is within our jurisdiction to allow use of unexpended funds under reaming and casing for diamond drilling (re: Field Team letter to Mr. K. G. Wallace dated November 15, 1954). However, as this situation is not specifically covered by the contract, there is some doubt on the part of the Fiscal Officer and auditor Turner as to the correctness of this interpretation. To allay any doubts, we prefer that the Amendment be prepared in Washington along the lines of the sample enclosed.

By Field Team, Region I, NW District

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures as indicated

cc: USGS (2)
USBM (2)
Kellum

BRADLEY MINING COMPANY
Exploration Project Contract No. Idm-2543
Docket No. DMEA 2636 (antimony)
Amendment No. 5
Exhibit "A"

RECEIVED
JUL 28 1955

Changes and Modifications:

In Exhibit "A" of the contract, under Description of the Work, Agreed Unit Costs, delete all items under diamond drilling and substitute:

"Area South East of Pit 3 holes	1162 ft.	@ $5.02 per ft.	$5,833.24
North Tunnel Area 2 holes	951 ft.	@ $4.10 per ft.	3,899.10
Hennessy Creek Area 2 holes	586 ft.	@ $5.10 per ft.	2,988.60
Stibnite Airport Area 3,741.8 ft.	@ $4.73 per ft.		17,699.06
Driving pipe on surface @ $9.00 per ft. and/or reaming and casing and holes @ $2.65 per ft. and/or diamond drilling @ $4.73 per ft.			12,137.00
			$42,557.00

The Government will contribute to the costs of the above specified work on the basis of the above agreed unit costs per foot as they accrue, for units of work actually performed, in lieu of actual costs. These unit costs include all costs of the work to which the Government will contribute on the basis of actual costs except those scheduled hereinafter.

RECEIVED
JUL 28 1955

Justification for Amendment No. 5

This amendment allocates unexpended funds to complete diamond drilling of the Scout Ridge area.

Present drilling of the Scout Ridge area indicates a mineralized zone in altered quartz monzonite as intersected by DDH's MC-58, MC-60, and MC-62. This zone has a maximum width of 30 feet and an average assay of 0.115 oz./ton gold and 1.62 percent antimony, as intersected by DDH MC-60. Core logs and assays of this and other completed diamond drill holes are contained in the docket. Further diamond drilling to test this zone is believed justified.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
July 5, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John D. Cardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA 2636 (antimony), Bradley Mining Company, Valley County, Idaho, Contract No. Idm-8453

Diamond drilling was resumed in May after a recess during January thru April 1955.

Hole MC-63 was collared at approximately 24,330 N and 23,170 E, elevation 6550 feet, on the Scout Ridge area. The hole bears about due east at a 49° angle. Pipe had been driven about 50 feet in overburden.

Resume of diamond drilling completed to June 24, 1955:

Area	Feet Authorized	Feet Completed	Cost
Southeast of Pit	1500		
Hole No. [illegible] 217		371	$2,061.17
Hole No. [illegible] 218		500	2,510.00
Hole No. [illegible] 219		291	1,582.72
		1162	6,153.89
North Tunnel Area	1500		
Hole No. FC 1		476	1,951.00
Hole No. FC 2		475	2,159.50
		951	4,111.10
Hennessy Creek Area	500		
Hole No. B220		278	1,554.30
Hole No. B221		358	1,884.30
		636	3,438.60

Area	Feet Authorized	Feet * Completed	Cost
Stibnite Airport Area	3000		
MC 55		749	$4,493.47
MC 56		748	4,486.66
MC 57		703	4,490.90
MC 58		841	4,205.83
MC 59		135	975.88
MC 60		488	2,607.69
MC 61		174	1,566.00
MC 62		510	2,412.30
MC 63		50	—
		4398	$25,238.73
Driving pipe on surface	215		
Reaming and casing	3850		
Total for all areas		7147	$38,942.32
Total authorized 1/	10,565 ft. 1/		$42,557.00 1/

* Includes driving pipe.

1/Includes driving pipe, reaming and casing footages.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
JDD/hs

John D. Gardill

W

2636

XXXXXXXXXXXXXXX
1301 N. Division St.
Spokane 2, Washington
March 23, 1955

Bradley Mining Co.
1000 Crocker Building
San Francisco 4, California

Re: Contract Ida-2453
Monthly operating report for
January 1955

Gentlemen:

The subject operating report has been received and processed for payment. However, payment of this MF-104 is being held up as the project was resumed January 8, and we understand work will not be resumed until spring.

When project work is temporarily discontinued we are obliged to withhold a portion of the Government's contribution to the cost until work is resumed. This is standard procedure for all contracts.

By Field Team, Region I
Northwest District

A. H. Weissenborn, Exec. Officer
U. S. Geological Survey

cc: IMRA (2)
USGS (2)
Wash. (1)

Wing G. Agnew, Member
U. S. Bureau of Mines

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1955 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Airport	1'	165.55	35	17,032.73	3601	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162 ✓	5.02	1500	5.02
Hennessy Cr.	1'			2,988.60	586 ✓	5.10	500	5.10
North Tunnel	1'			3,899.10	951 ✓	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'			7,173.00	797	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		27.00		5,178.52				
TOTAL DISTRIBUTED COSTS		192.55		44,121.84				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				733.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		192.55		46,778.07				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 3/21/55 Operator Bradley Mining Co.

Per G. Olson Title Assistant Secretary

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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GPO 872894

February 26, 1955

DMEA Progress Report for January, 1955

Contract Idm-E 453

Progress

Scout Ridge Area

Diamond drill hole MC-62, drilled 475 feet in December, was completed to a length of 510 feet in January. Drilling conditions were extremely unfavorable; seven machine-shifts were spent actually drilling or attempting to drill this final 35 feet. In addition, six shifts were spent pulling casing, tearing down, and storing equipment. Average advance was only 2.7 feet per machine-shift, including moving time.

Two factors contributed to the extremely slow progress: The nature of the rock and the weather. From 340 feet to the bottom of the hole the rock was very soft and caving, making drilling difficult. Low temperatures resulted in frozen water pipes, causing considerable down-time.

Further drilling under the contract will be recessed until next spring.

The log of hole MC-62 is included with this report.

Results

The final 35 feet of hole MC-62 was in altered granite and biotite schist, with only low antimony and gold values.

Certain sections of core from hole MC-62 were assayed to check the assays of sludges that might have been salted by caving from higher in the hole. The only significant difference between core and sludge assays was noted from 370 to 375 feet. For this five-foot section, the core assayed 2.02% antimony while the sludge assayed only 0.33% antimony.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Coordinates: 23,919 N
23,011 E
Elevation: 6518

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-62

Bearing: N 75° E
Inclination: Minus 40°
Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 40	Fractured and decomposed quartzite. Sand.	15	No sludge samples			NX BX at 20'
40 - 65	Fractured quartzite	30	Nil	Tr	Nil	"
65 - 90	Quartzite, except aplite 73 to 77 ft.	15	"	.005	.01	"
90 -115	" " " 95 to 99 ft. & 104-106 ft.	25	"	.005	.01	"
115-140	" " " 135 to 137 ft.	40	"	.005	.03	"
140-165	"	25	"	.010	.02	"
165-190	Quartzite to 170 ft, muscovite schist 170 to 174 ft., quartzite 174 to 190 ft.	60	"	.005	.02	"
190-210	Quartzite to 205 ft., partially altered granite 205 to 209 ft., quartzite 209 to 210 ft.	70	"	Tr	.03	AX at 200'
210-230	Altered aplite and granite to 216'; quartzite 216-218'; altered aplite and granite 218-230'. Minor fine-grained sulfides.	40	"	.020	.02	"
230-250	Quartzite	35	"	.020	.02	"
250-255	"	45	"	.025	.03	"
255-260	"	35	"	.025	.12	"
260-265	" Some stibnite and pyrite	55	"	.025	.44	"
265-270	" " " " "	5	"	.015	.50	"
270-275	" " " " "	30	"	.025	.77	"
275-280	" " " " "	5	"	.020	.64	"
280-285	" " " " "	10	"	.025	.71	"
285-290	" " " " "	90	"	.020	.51	"
290-295	" " " " "	80	"	.030	.42	"
295-300	" No stibnite	85	"	.025	.38	"
300-305	"	60	"	.015	.10	"
305-310	"	95	"	.020	.18	"
310-315	"	75	"	.020	.09	"
315-320	"	85	"	.015	.10	"
320-325	"	75	"	.015	.10	"
325-330	Quartzite to 329'; dark grey gouge and granite breccia 329-330'	80	"	.015	.17	"

Footage	Mineralogy		% Recovery	% O_3	Oz. Au	% Sb	Size Core
330-335	Completely altered granite; gouge and breccia		55	Nil	.030	.15	AX
335-340	" " " " " "		25	"	.020	.13	"
340-345	" " " " " "		80	"	.025	.21	"
345-350	" " " " " "		25	"	.020	.11	"
350-355	" " " " " "		30	"	.025	.18	"
355-360	No core		0	"	.025	.11	"
360-365	Completely altered granite. Brecciated.		15	"	.020	.09	
365-370	" " " " Fine-gr.sulfides		70	"	.030	.18	"
370-375	" " " Fair stibnite	(sludge)	65	"	.035	.33	"
		(core)			.025	2.02	
375-380	" " " Minor stibnite	(sludge)	65	"	.025	.23	"
		(core)			.040	.12	
380-385	" " " fine-grained sulfides	(sludge)	80	"	.030	.21	"
		(core)			.020	.16	
385-390	" " " Some stibnite	(sludge)	40	"	.020	.23	"
		(core)			.020	.67	
390-395	Grey-colored schistose quartzite	(sludge)	55	"	.010	.18	"
395-400	" " " " to 396'. Completely altered granite, minor stibnite 396-400'	(sludge)	65	"	.050	.17	"
		(core)			.050	.10	
400-405	Completely altered granite, some brecciation, fine-grained sulfides	(sludge)	95	"	.035	.09	"
		(core)			.020	.08	
405-410	Completely altered granite, some brecciation, fine-grained sulfides		75	"	.040	.13	"
410-415	Completely altered granite, some brecciation, fine-grained sulfides. 3" fresh granite at 414'		85	"	.050	.26	"
415-420	Completely altered granite, some brecciation, fine-grained sulfides		10	"	.035	.13	"
420-425	Completely altered granite except patch fresh granite 422-423'		30	"	.005	.09	"
425-430	Completely altered granite		55	"	.020	.09	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
430-435	Completely altered granite	5	Nil	.030	.05	NX
435-440	Nearly completely altered granite	5	"	.010	.04	"
440-445	Altered granite; patches fresh granite	25	"	.005	.11	"
445-450	Biotite schist	10	"	.020	.10	"
450-455	" "	15	"	.010	.08	"
455-460	" " to 456'. Completely altered granite 456-460'	20	"	.050	.07	"
460-465	Altered granite and aplite	25	"	.045	.09	"
465-470	" "	20	"	.020	.08	"
470-475	" " " " to 473'; essentially fresh granite 473-475'	30	"	.025	.06	"
475-480	Altered aplite; minor stibnite	40	"	.015	.20	"
480-485	" " " "	20	"	.030	.09	"
485-490	" " " "	20	"	.015	.13	"
490-495	" "	25	"	.015	.19	"
495-500	" " to 499'. Biotite schist 499-500'	25	"	.015	.37	"
500-505	Biotite schist	20	"	.055	.29	"
505-510	Mixed biotite schist, altered granite and aplite	20				

End of hole at 510 feet.

Note: All assays are sludge assays unless otherwise indicated. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Sludge samples were probably very unreliable from 370 feet to the bottom of the hole, due to caving from higher in the hole.

DIAMOND DRILL HOLE NO. MO-62

Driller's Notes

Date Start: 12/1/54
Finish: 1/8/55

Drillers: Manning, Barkell
Helpers: Tyger, Washington

Footage	Remarks
0 - 20	Very broken quartzite. No sludge. Cased to BX at 20 feet.
20 - 35	No core, no sludge. Sand. Cemented.
35 - 40	Quartzite and sand. No sludge. Cemented.
40 - 55	Quartzite and sand. White sludge.
55 - 74	Very broken quartzite. Sand seams. White sludge.
74 - 80	Rusty granite with quartzite. Rusty-white sludge.
80 - 85	Sand. Brown sludge.
85 -115	Quartzite and sand. Light grey sludge.
115-120	Granite and sand. Grey and brown sludge.
120-140	Granite and quartzite. Grey sludge.
140-155	Quartzite and granite, very broken. Grey sludge.
155-160	Quartzite, granite and sand. Hole caving slightly. Brownish sludge.
160-165	Quartzite and sand. Very broken. Hole caving. Grey sludge.
165-170	Quartzite and granite. Dark blue and grey sludge.
170-174	Quartzite and granite. Heavy in mica. Dark blue sludge.
174-180	Quartzite. Grey sludge.
180-189	Quartzite and granite. Very hard. Grey sludge.
189-200	Quartzite. Very hard and broken. Grey sludge. Cased to AX at 200 feet.
200-210	Quartzite and granite. Some gouge. Grey sludge.
210-224	Altered granite. Soft. Blue-grey sludge.
224-230	Altered granite with gouge. Very soft. Hole caving slightly 225 to 230 feet. Grey sludge.
230-235	Slightly altered granite. Very soft, with gouge. Grey sludge.

Footage	Remarks
235-245	Quartzite, some granite. Grey sludge.
245-250	Quartzite. Hard and broken. Grey sludge.
250-260	Quartzite. Mica. Blue and grey sludge.
260-265	Quartzite. Grey sludge.
265-270	Very soft and gougy. Grey sludge.
270-275	Quartzite and altered granite. Some antimony. Blue-grey sludge.
275-285	Quartzite and gouge. Hole caving at 278 feet. Grey sludge.
285-290	Altered granite and quartzite. 285 to 288 ft. was very hard, 288 to 290 ft. was softer. Blue-grey sludge.
290-295	Quartzite. Some antimony. Very hard. Blue sludge.
295-298	Quartzite. Very hard. Blue sludge.
298-300	Quartzite. Mica. Bluish-grey sludge.
300-305	Quartzite. Mica. Dark grey sludge.
305-310	Quartzite, altered granite. Some antimony. Grey sludge.
310-329	Quartzite, altered granite. Medium hard. Grey sludge.
329-330	Gouge. Blue sludge.
330-335	Altered granite. Very soft and broken. Dark grey sludge.
335-340	Altered granite and gouge. Very soft. Grey sludge.
340-350	Altered granite and gouge. Very soft. Grey sludge.
350-355	Mostly tale and gouge, a little altered granite. Hole caving at 345 feet. Grey sludge.
355-360	No core. Tale and gouge. Hole caving from 345 ft. Blue-grey sludge.
360-365	Sulfides and gouge. Blue sludge. Some core at 363 feet.
365-370	Altered granite. Very soft, some gouge. Blue-grey sludge.
370-375	Three to 4 feet of sand in bottom of hole - had to wash to bottom. Altered granite, very soft. Some antimony. Blue and grey sludge.

Footage	Remarks
375-380	Had to wash to bottom of hole - 3 feet of sand. Altered granite, soft. Grey sludge.
380-385	Altered granite, soft. Blue and grey sludge. Had to wash through 5 feet of sand to bottom of hole.
385-390	Sulfides and gouge. Soft and broken. Blue-grey sludge. Washed and drilled 5 feet to bottom of hole.
390-395	Washed and drilled 6 feet through sand. Hole caving. Altered granite and gouge. Very soft and broken. Grey sludge.
395-400	Washed and drilled 6 feet to bottom. Caving. Sulfides. Lost some core when pulling. Hole caved back of core barrel. Cemented 12 gallons.
400-405	Cement did not set. Washed and drilled 25 feet of cement. Altered granite, sulfides. Bluish-grey sludge. No cave noticed while pulling.
405-410	Washed rods 15 feet to bottom of hole. Sulfides. Lots of dark grey sludge. Gouge washing in hole from above.
410-415	Washed rods 15 feet to bottom of hole. Altered granite. Dark grey sludge.
415-420	Washed rods 15 feet to bottom. Altered granite and gouge. Dark blue sludge.
420-425	Washed 15 feet to bottom of hole. Altered and fresh granite. Gouge. Grey sludge.
425-430	Altered granite. Gouge. Dark blue sludge.
	Cased to EX at 430 feet.
430-450	Altered granite, very soft. Grey sludge.
450-460	Altered granite, very soft. Blue-grey sludge.
460-465	Had to wash and drill 18 feet to bottom of hole. Altered granite, very soft. Grey sludge.
465-470	Fairly tight to bottom again. Altered granite, very soft and gougy. Blue sludge.
470-475	Had to wash 21 feet to bottom. Quartz and granite. Dark blue sludge.
	Cemented hole -- 18 gallons cement.
	Nine shifts spent getting to bottom of hole through cave, recementing, and maintenance on drill.

Footage	Remarks
475-480	Quartzite and quartz. Grey and white sludge.
480-490	Hit some cave at 470 feet. Had to wash and drill 4 feet to bottom. Quartzite and quartz. Bluish-grey sludge.
490-500	Quartzite and mica. Blue and grey sludge.
	Hole caved badly from 449 to 460 feet.
500-510	Aplite and schist. Very soft and gougy. Light grey sludge.
	Had lots of trouble getting out of hole. Cave from 460 to 447 feet.
	End of hole.

3/28/55 gla

XXXXXXXXXXXXXXXXX
1201 N. Division St.
Spokane 2, Washington
March 23, 1955

DMEA-2636

Bradley Mining Co.
1002 Crocker Building
San Francisco 4, California

Re: Contract I4n-2453
Monthly operating report for
January 1955

Gentlemen:

The subject operating report has been received and processed for payment. However, payment of this MF-104 is being held up as the project was recessed January 8, and we understand work will not be resumed until spring.

When project work is temporarily discontinued we are obliged to withhold a portion of the Government's contribution to the cost until work is resumed. This is standard procedure for all contracts.

By Field Team, Region I
Northwest District

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

cc: DMEA (2)
USGS (2)

Wing G. Agnew, Member
U. S. Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. J. [illegible] Bradley, President
Bradley Mining Corporation
[illegible] Border Building
San Francisco 1, California

MAR 17 1955

Re: Contract No. [illegible] (Discovery)
Contract No. [illegible]
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Bradley:

Your application, dated December 8, 1954, for additional work and funds under the subject exploration contract, and other information available to us in connection therewith, the contract and property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration are, in the interest, directed toward the discovery of ground materials of economic grade in quantities that will significantly improve the mineral supply position for the critical strategic reserve.

Careful study of your proposal and other information in our possession indicates that the potentiality of economic deposits of strategic minerals as contemplated by your proposal is not sufficiently promising to justify expenditure of additional funds. We regret to advise you, under these circumstances, that your application for additional exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and bring the proposal to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

Copy to: J. [illegible] Allen, Resident Agent
Bradley Mining Co.
Yellow Pine Mine and Smelter
Idaho, Idaho

MCh'ng/ela
3-15-55
cc to: Admr.'s Read File
Operating Committee
Docket
Memorandum: A. Kenick, No. 362
T. [illegible] Gillespard, No. 122
Code 700
Mr. Ching
DMEA Field Team, Portland, District (2)

March 10, 1955

Summary of Proposed Project

Object: Denial of application for additional funds and work

Docket No.: DMEA-2636 (Contract No. Idm-E453)

Commodity: Antimony

Applicant: Bradley Mining Company
425 Crocker Building
San Francisco 4, California

Property: Yellow Pine Mine
Valley County, Idaho
Operator is the owner

Date of application: November 8, 1954

Amount of application: $34,500.00

Work Proposed:
4000 feet of surface diamond drilling (8 holes) at three target areas in the East Fork valley, at an overall cost of $34,500.00, including drill site preparation and analytical work.

Field Team Report: John S. Vhay, USGS, believes that if additional drilling is to be done, the first and most important objective is to prove or disprove the presence of the East Fork fault inferred by Bradley geologist Joralemon from surface alteration zones. He further believes that if it can be demonstrated that a major north-south shear zone occupies the East Fork valley, then an important new target is available in this area. He disapproves of the location and objectives of Operator's proposed drill holes because they will not really prove or disprove the existence of the East Fork fault zone. He suggests certain alternate holes.

The Field Team (including Mr. Vhay) feels that if additional drilling is to be done it should await the completion of both contracts Idm-E453 and Idm-E173 and an appraisal of the results. It notes that existing contracts for exploration

of this property amount to $256,836.00, and the results have been discouraging for the amount of exploration done.

Commodity Committee Members' Comments:

Bureau of Mines - Abbott Renick, March 8, 1955

Recommends that the application be denied because of the lack of geologic evidence of the probability of making a significant discovery. Would consider a new application if Applicant obtained additional evidence that might alter this opinion.

Geological Survey - E. L. Newcomb, March 8, 1955

The proposed exploration is based on the geologic surmise that major fault zones and associated alterations are coincident locally with stream valleys. It is further inferred that intersections of these trends or fault zones may prove to be loci of mineralization. There is no reliable evidence which suggests these structural conditions do exist and if the proposed project has a tangible target, it is simply the testing of this geologic hypothesis that the East Fork valley represents an altered zone. In view of the results obtained by previous drilling, which was aimed in part at testing known fault intersections, the proposed work is not warranted. The absence of proven structural targets places the project in the category of prospecting.

An extensive amount of DMEA assistance has been extended to the Bradley properties. Many suitable target areas have been tested, and probably sufficient exploration has been undertaken by the Government. I recommend the application be denied.

Rare and Miscellaneous Metals Division - Michael Ching, March 11, 1955

Under Docket No. DMEA-1284 the subject Applicant originally signed a contract for $97,368.00, covering underground work to explore the Meadow Creek Fault zone. An additional $78,000.00 was subsequently authorized to extend the exploration to the south toward the Meadow Creek Mine. Recently an additional $26,468.00 was authorized to further explore the only promising showing encountered to date. Thus a total of $203,836.00 has been authorized under this contract

to explore the most promising areas on the property by underground workings. Results to date have been disappointing.

Under Docket No. DMEA-2636 a contract for $53,000.00 authorized the same Applicant to explore five promising areas on the property by means of diamond drill holes, drilled mostly from the surface. This drilling, now about completed, was barren of results except for two holes in the Scout Ridge Area and one hole in the Southeast of Pit area. In the Scout Ridge Area one hole passed through 30 feet of material assaying 0.61% antimony and .11 ounce gold per ton. The other hole penetrated 30 feet of material assaying 1.62% antimony and .11 ounce gold.

In the Southeast of Pit area the mineralized hole penetrated 15 feet of material assaying 2.10% antimony.

The Applicant now requests an additional $34,500.00 to diamond drill untested areas in the East Fork valley, hitherto considered of lesser promise. Structural geology has not been mapped because of the general lack of outcrops in the area. Target areas in the form of multiple fault intersections were inferred as being present from topographic indications and rock alteration evidence.

There appear to be two important hazards in the proposed additional work. First, it is quite possible that the inferred structures are not actually there, and second, in most instances the presence of such structures would not in itself indicate the presence of ore. This was illustrated in the Airport, Hennessey Creek and North Tunnel areas where intersections of known fault zones were tested by diamond drilling without significant results.

This Applicant has been receiving Government aid for antimony exploration since October, 1951. Two major contracts and two amendments authorizing additional funds have been granted. Extensive areas have been covered by the exploration work and several major changes in the original programs have been made as new ideas were developed from the work completed. The present application covers a hitherto unexplored area; however, there are doubtless a number of other such areas for which a strong case could be built for exploration work.

Conclusions and Recommendations:

The history of exploration on this property to date and the lack of concrete geologic evidence that mineralizing structures are present in the area in question, leads to the conclusion that further participation by the Government in exploratory work on this property is not warranted. It is recommended that the subject application be denied.

Ernest Wm. Ellis

MChing:am
cc to: Admr. Reading File
Operating Committee
Docket (original)
Code 700
Mr. Ching

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines
Washington 25, D.C.

March 8, 1955

Docket No. DMEA 2636
Yellow Pine Mine - Antimony
Bradley Mining Company
Contract Idm-E453
$34,500

Memorandum

To: E. William Ellis

From: Abbott Renick, Branch of Base Metals

Subject: Application for DMEA assistance submitted by the Bradley Mining Co., San Francisco, California

Application dated November 8, 1954 together with the Field Team's letter of transmittal dated February 17, 1955 for an exploration project DMEA-2636 has been carefully reviewed.

The writer recommends that this application be denied, basing the decision on the lack of geologic evidence of the probability of making a significant discovery.

Furthermore, should the applicant obtain additional evidence that might alter this opinion the writer would be glad to consider a new application.

/s/ Abbott Renick

Abbott Renick

Copy to Division of Minerals
Branch of Base Metals
Ed. L. Newcomb - G.S. Bldg.-Rm. 5227
A. Renick
F I L E S

c
o
p
y

3/10/55 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Defense Minerals Adm.
RECEIVED
MAR 9 - 1955

March 8, 1955

Re: DMEA-2636
Bradley Mining Co.
(Yellow Pine Mine)
Valley Co., Idaho
Antimony

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Proposed amendment to contract Idm-E453

The operator has requested an amendment to his contract which would allow 4,000 feet of drilling (3 holes) to test along the East Fork valley trend and at the intersection of the Fiddle Creek and East Fork valleys. The proposed drilling will increase the contract an additional $34,500. A total of $256,836 has already been encumbered on contracts Idm-E453 and E173.

The proposed exploration is based on the geologic surmise that major fault zones and associated alteration are coincident locally with stream valleys. It is further inferred that intersections of these trends or fault zones may prove to be loci of mineralization. There is no reliable evidence which suggests these structural conditions do exist and if the proposed project has a tangible target, it is simply the testing of this geologic hypothesis -- does the East Fork valley represent an altered, fault zone? In view of the results obtained by previous drilling, which were aimed in part at testing known fault intersections, the proposed work is not feasible. The proposed drilling would be outside the limits for reasonable DMEA exploration. The absence of proven structural targets places the project in the category of prospecting -- not for mineralization, but for a feasible exploration objective.

An extensive amount of DMEA assistance has been extended to the Bradley properties. Many of the suitable target areas have been tested and probably sufficient exploration has been undertaken by the Government.

I recommend the proposed 4,000 feet of drilling be denied. In the event the Company proves the existence of favorable structures in the proposed exploration area at some future time, further consideration of drilling in the area may be justified.

ELNewcomb:hlm G-3/8/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
A. Renick, 3624 Interior

E. L. Newcomb

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Chicago Lithograph
RECEIVED
MAR 9 - 1955

March 8, 1955

Re: DMEA-2636
Bradley Mining Co.
(Yellow Pine Mine)
Valley Co., Idaho
Antimony

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Proposed amendment to contract Idm-2453

The operator has requested an amendment to his contract which would allow 4,000 feet of drilling (3 holes) to test along the East Fork valley trend and at the intersection of the Fiddle Creek and East Fork valleys. The proposed drilling will increase the contract an additional $34,500. A total of $256,836 has already been encumbered on contracts Idm-2453 and 2173.

The proposed exploration is based on the geologic surmise that major fault zones and associated alteration are coincident locally with stream valleys. It is further inferred that intersections of these trends or fault zones may prove to be loci of mineralization. There is no reliable evidence which suggests these structural conditions do exist and if the proposed project has a tangible target, it is simply the testing of this geologic hypothesis -- does the East Fork valley represent an altered, fault zone? In view of the results obtained by previous drilling, which were aimed in part at testing known fault intersections, the proposed work is not feasible. The proposed drilling would be outside the limits for reasonable DMEA exploration. The absence of proven structural targets places the project in the category of prospecting -- not for mineralization, but for a feasible exploration objective.

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ELNewcomb:hlm G-3/8/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
A. Renick, 3624 Interior

E. L. Newcomb

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Mineral Branch
RECEIVED
MAR 9 - 1955

March 8, 1955

Re: DMEA-2636
Bradley Mining Co.
(Yellow Pine Mine)
Valley Co., Idaho
Antimony

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Proposed amendment to contract Ida-2453

The operator has requested an amendment to his contract which would allow 4,000 feet of drilling (3 holes) to test along the East Fork valley trend and at the intersection of the Fiddle Creek and East Fork valleys. The proposed drilling will increase the contract an additional $34,500. A total of $256,836 has already been encumbered on contracts Ida-2453 and 2173.

The proposed exploration is based on the geologic surmise that major fault zones and associated alteration are coincident locally with stream valleys. It is further inferred that intersections of these trends or fault zones may prove to be loci of mineralization. There is no reliable evidence which suggests these structural conditions do exist and if the proposed project has a tangible target, it is simply the testing of this geologic hypothesis -- does the East Fork valley represent an altered, fault zone? In view of the results obtained by previous drilling, which were aimed in part at testing known fault intersections, the proposed work is not feasible. The proposed drilling would be outside the limits for reasonable DMEA exploration. The absence of proven structural targets places the project in the category of prospecting -- not for mineralization, but for a feasible exploration objective.

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I recommend the proposed 4,000 feet of drilling be denied. In the event the Company proves the existence of favorable structures in the proposed exploration area at some future time, further consideration of drilling in the area may be justified.

ELNewcomb:hlm G-3/8/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
A. Renick, 3624 Interior

E. L. Newcomb

xxxxxxxxxxxxxxxxx

1201 N. Division St.
Spokane 2, Washington
February 24, 1955

MEMORANDUM

To: DMEA Field Team, Region I

From: W. S. Anderson, Mining Engineer, Bureau of Mines

Subject: Routine report, Docket No. DMEA 2636 (antimony), Bradley Mining Co., Valley County, Idaho, Contract Idm-M453

An attempt was made February 22 and 23, 1955, to fly into Stibnite from Boise, Idaho, but weather conditions were such that the pilot could not make the trip. He stated that it would be another week before the weather cleared enough to fly into the property.

Mr. Keith Wallace, assistant manager, Yellow Pine mine, was contacted by radio and he stated that drilling under the contract had been suspended January 8, 1955, because of inclement weather.

W. S. Anderson

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
WSA/he

2/23/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~XXXXXXXXXXXXXXXXXX~~
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
February 11, 1955

FEB 17 1955
(Respondence)

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract Idm-E453

Dear Mr. Selfridge:

Enclosed are the original and three copies of a memorandum by John S. Vhay, geologist, U. S. Geological Survey, evaluating the Bradley Mining Company's request for an extension of the present contract which would cost an additional $34,500.00 over the $53,000.00 authorized.

Mr. Vhay proposes an alternate drilling program from that proposed by Mr. Joralemon; however, we feel that if additional drilling is to be done it should await the completion of both contracts Idm-E453 and E173 and an appraisal of the results.

The DMEA has outstanding $256,836.00 in contracts in the immediate Stibnite area, and the results have been discouraging for the amount of exploration done.

By Field Team, Region I, NW District

/s/
Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Noted - JSV
John S. Vhay, Acting Member
U. S. Geological Survey

Enclosure

cc: USGS (2)

Sent to USBM + USGS with Jan. 15 material for comments

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

So. 157 Howard Street
Spokane 4, Washington

February 11, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John S. Vhay, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2636 (antimony), Bradley Mining Company, Yellow Pine Mine, Valley County, Idaho, Contract No. Idm-E453. Recommendation for amendment to extend contract.

On November 15, 1954, an application was received from the Bradley Mining Company which proposed an extension to Contract Idm-E453. The proposed work, detailed in a report by Mr. Peter Joralemon, calls for an additional 4,000 feet of drilling from the surface, the location of the proposed holes being shown on an accompanying map. My memorandum discusses the proposed drill holes and suggests alternate positions from which drilling could be done.

It should be pointed out that the area covered by this application has had very important mineral production in the past, almost all being from the Yellow Pine and Meadow Creek mines. According to John R. Cooper[1], to the end of 1945, 1,184,079 tons of ore were mined from which 95,358 tons of concentrates were obtained; these contained 831,829 units of tungsten trioxide, 14,981 tons of metallic antimony, 101,437 ounces of gold, and 592,211 ounces of silver. Although the results of the DMEA exploration to date have not been too encouraging, the possibility of discovery has not been by any means eliminated, and if a discovery is made it is likely to be an important one. This is especially true of the project proposed in the present application, because if it can be demonstrated that a major north-south shear zone occupies the East Fork valley, then an important new target is available in this area.

Joralemon's report, which is the main supporting document in the application, shows the use of an important geologic technique, namely, the mapping of alteration zones in the quartz monzonite, and arrives at a new picture of possible ore controls in the district. His so-called

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[1] Cooper, John R., Geology of the tungsten, antimony and gold deposits near Stibnite, Idaho: USGS Bull. 969-F, 1951, pp. 154-155.

"East Fork" fault zone, if present, and the intersections of this fault zone with northeast and northwest zones of shearing and alteration, gives us a number of new exploration targets to shoot at.

The possible importance of such an ore control is indicated by the drilling being carried out at present in the Scout Ridge area, where two holes have already intersected antimony-gold ore of good grade. Previously it was thought that only the Meadow Creek fault zone was the primary controlling factor.

My over-all objection to the proposed three holes, discussed below, however, is that none of them, as located, really prove or disprove the existence of the East Fork fault zone. If this fault zone is present as inferred by Joralemon and shown on the map accompanying the application, then, as pointed out above, it offers a large target of major importance to this whole area. For that reason, alternate drill holes have been proposed; the first objective of these holes is to prove or disprove the East Fork zone.

I cannot agree with some of the details of Joralemon's report. Among these are the statement that the location of gullies and swales is controlled by the alteration along faults (which I feel is disproved by a study of his own map) and statements in paragraph 2, page 2 regarding the East Fork fault having been shown to be a channelway for the ore solutions; it must first be proved that the East Fork fault zone exists before such positive statements can be made.

With regard to the three drill holes proposed in Joralemon's report, I feel strongly that the DMEA should not participate in the drilling of DDH No. 1; DDH No. 2 may be justified, but DDH No. 3 cannot be justified where presently located; it should be located somewhat farther to the east and south. These proposed holes are discussed below:

Proposed DDH No. 1:

Should not be done under the DMEA program. On the ridge south of Midnight Creek some alteration is seen, it is true. Part of the alteration appears to be on northeasterly-trending fractures which lie on the projection of the suspected Fiddle Creek fault; farther southeast up the ridge the alteration appears neither as intense nor as wide as shown on the map. J. R. Cooper's map of the Cinnabar tunnel (Plate 40, USGS Bull. 969-F, 1951) shows no strong zone of fractures where they should occur if Joralemon's map is correct.

Proposed DDH No. 2:

This hole, and possibly one other hole at this location, could be drilled under a DMEA contract. The location and direction of this hole, however, could be considerably improved. A hole at approximately 27,800N, 22,200E drilled N. 80° W. at -35°, would check the East Fork fault and the Fiddle Creek fault, and also test the ground between the two faults. An additional hole at about 28,500N, 22,150E, drilled

40° W., at -40°, would give another check on the East Fork fault and on the intersection of this fault with the northwest-trending structure, which comes southeast out of the Yellow Pine open pit. I do not believe, however, that an ore body anything like the Yellow Pine ore body can underlie this area because, although a fairly large area of no outcrops lies around the intersection of Fiddle Creek with the East Fork, no alteration shows up in the outcrops around this intersection, and on the basis of Joralemon's own assumptions on the importance of alteration, this area does not appear to be too favorable.

Proposed DDH No. 3:

This hole can probably be justified as a check on the possible East Fork fault, the alteration of ore along the fault, and its intersection with a northeast zone. The alteration along the East Fork valley and on the suspected northeast zone, however, is apparently considerably less at the latitude of DDH No. 3 than that found along co-ordinate 24,000N and for that reason it is felt that a hole located near 24,100N, 22,150E, drilled due west at -35°, would have a better chance of success. At any rate, whether a hole is drilled at the latitude of DDH No. 3 or of the above-described location, it should be started on the east side of the valley in order to thoroughly test the full width of the East Fork fault zone.

If an amendment for additional drilling on this project is to be granted, it is felt that the first, and most important, objective is to prove or disprove the inferred East Fork fault; the program outlined below is suggested with this in mind.

First, drill a hole at approximately 24,100N, 22,150E, due west at -35°, 900 to 1,000 feet; this would check the East Fork structure, and also the strong alteration shown along the road on the west side of the valley. A second hole at approximately 25,550N, 22,250E, west at -40°, 900 to 1,000 feet would check the East Fork structure, and also its intersections with one possible northwest structure and one possible northeast structure. Then, if the East Fork structure is proved to be present by these first two holes, holes at approximately 27,800N, 22,200E, N. 80° W., at -35°, and 28,500N, 22,150E, S. 40° W., at -40°, could be drilled to check the intersections of the East Fork structure with the possible Fiddle Creek fault and the northwest-trending zone coming southeast out of the main Yellow Pine open pit. On the other hand, if the first two holes do not prove the presence of the East Fork structure, it is believed that no more drilling should be done along it.

Distribution:
DMEA (4)
USBM (2)
USGS (SRO)
Docket
Puffett

2/10/55

Defense Materials Administration
RECEIVED
FEB 10 1955

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

February 4, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mr. Selfridge:

We are enclosing the Government, Docket, and Division copies of Amendment No. 4 signed by John D. Bradly for the Bradley Mining Co. This amendment extends the completion time from 24 to 33 months.

Distribution of this amendment is being made in the usual manner.

Sincerely yours,

A. S. Weissenborn
Executive Officer, DMEA
Field Team, Region 1
Northwest District

Enclosures
cc: USBM(2)
Puffett
USBM(AD)

2/2/55 gla

xxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

January 20, 1954-5

Mr. J. D. Bradley, President
Bradley Mining Company
1022 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Ida-5453

Dear Mr. Bradley:

Reference is made to Mr. K. G. Wallace's letter of November 22, 1954, requesting a time extension for the cited contract.

Enclosed are the original and six copies of Amendment No. 4 signed by the Administrator. This amendment extends the completion time from 24 to 33 months.

If this amendment meets with your approval, please sign all copies, retain the Operator's copy, and return the remaining copies to this office.

Sincerely yours,

John S. Whay
Acting Member, DMEA
Field Team, Region I
Northwest District

Enclosures
cc: K. G. Wallace, Stibnite, Idaho
DMEA(2)
USGS(2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 1/25

REFERRED TO:

1. ~~H. Berry~~
2. ~~Mr. Eldridge~~
3. ~~Mr. Ellis~~
4. Mr. Ching

This copy for Division contract file.

FOR:

	Action		Recommendation
	Approval		Record
	Comment		of
	Conference		Reporting
	Consideration		to
	Filing		Reply for signature of
	Instructions		Rewriting
	Investigation		Signature
	Initials		Suggestions
	Mailing		Your information
	Previous correspondence		

Copy of memo attached. Referred to Mr. Renick to be released. Sent out yesterday. Memo

REMARKS: Should we wait until memorandum referred to comesin from the Field before referring copies to USBM and USGS for comments? gla

I have not dated the route slips to Messrs. Renick and Kiilsgaard.

Check (X) before the items needing attention.

Also, the signed copy of Amendment No. 4 ~~sent to~~ the Field on January 10, 1955, for sig. of the Opr. (extending completion date from 24 mos. to 33mos.) has not been returned.

ROBERT E. ADAMS

Initials of sender.

1/26/55 gla

XXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

January 15, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Contract No. Idm-.453

Dear Mr. Selfridge:

Transmitted herewith are the original and three copies of an application (with three copies only of map), dated November 8, 1954, submitted by the Bradley Mining Company for further work in the Yellow Pine area. This would amount to an extension of their present contract.

This application was held here pending preparation of a memorandum which we had expected to send in with it discussing the proposal and which we thought could be prepared within a matter of a few days. This memorandum was partly written but unfortunately became sidetracked in favor of more urgent work, and the result is that our sending in the application has been delayed far beyond what it should have been. It is enclosed herewith and we expect that the memorandum discussing the project will be forwarded to you within a very short time.

Sincerely yours,

A. L. Holmenborn
Executive Officer, Northwest District
DMEA Field Team, Region I

Enclosures
cc: DMEA (Orig.&3)
USBM(2)
Puffett

November 8, 1954

Mr. A. E. Weissenborn
Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Subject: Docket No. DMEA 2636
(Antimony)
Contract No. Idm-E 453
Valley County, Idaho

Dear Mr. Weissenborn:

We are herewith submitting application for extending the subject Defense Minerals Exploration Administration contract. The proposed diamond drilling program was discussed with you and members of your staff at your office on September 1, 1954. Enclosed are several copies of a report and map prepared by Mr. Peter Jorelemon, consulting geologist to the Bradley Mining Co., detailing the proposed work.

The work recommended by Mr. Jorelemon will require an additional 4000 feet of diamond drilling, the drilling to be done from the surface in the East Fork Area as shown on the enclosed map.

Costs. Enclosed is a copy of a schedule of drilling prices submitted by Nichols and Thompson Core Drilling Co., Inc., Boise, Idaho, for the proposed drilling. The following cost estimates are based on the prices quoted by Nichols and Thompson.

Contractor's Move-In Cost			$ 330.00
Driving Pipe			
0 to 50 ft. increment:	350 ft. at	$9.90, 3,466.00	
50 to 100 ft. increment:	150 ft. at	$16.00, 2,400.00	5,865.00
Drilling			
0 to 250 ft. increment:	1500 ft. at	$5.35, 8,025.00	
250 to 500 ft. increment:	1500 ft. at	$5.90, 8,850.00	
500 to 750 ft. increment:	450 ft. at	$6.70, 3,015.00	
750 to 900 ft. increment:	50 ft. at	$7.50, 375.00	20,265.00

RECEIVED
NOV 15 1954
U. S. G. S.
SPOKANE, WASH.

Cementing or Reaming		
1,150 ft. at $2.65	$3,047.50	$ 3,047.50
Total contractor's diamond drilling cost		$29,507.50
Technical Services -- project will require 6 months (150 working days) to complete		
Geological Consultant - 6 days at $50.00 -	$300.00	
Engineer - 2 hrs./day for 150 working days at $2.50	750.00	
Accountant - 1 hr./day for 150 working days at $2.50	375.00	$ 1,425.00
Operating Materials and Supplies		
1,000 ft. 1-inch pipe at $0.20	$200.00	
75 core boxes at $4.00	300.00	500.00
Drill Site Preparation		
60 hrs. tractor work at $10.00/hr.		600.00
Analytical Work		
400 antimony assays at $2.00	800.00	
400 gold assays at $1.00	400.00	
50 tungsten assays at $3.00	150.00	1,350.00
Contingencies		1,117.50
Total estimated cost of additional work		$34,500.00

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The following tabulation is provided to give a detailed breakdown of the footages and costs shown above as contractor's diamond drill costs.

Contractor's Move-In Cost		$ 330.00
Hole No. 1 (500 ft., no overburden)		
Drilling 0 to 250 ft. - 250' at	$5.35 1,337.50	
250 to 500 ft. - 250' at	$5.90, 1,475.00	
Cementing or Reaming - 150 ft. at	$2.65 397.50	$ 3,210.00

Hole No. 2 (800 ft., 100 ft. overburden)			
Driving Pipe	0 to 50 ft. - 50' at $9.90,	495.00	
	50 to 100 ft. - 50' at $16.00,	800.00	
Drilling	100 to 250 ft. - 150' at $5.35	802.50	
	250 to 500 ft. - 250' at $5.90	1,475.00	
	500 to 750 ft. - 250' at $6.70	1,675.00	
	750 to 800 ft. - 50' at $7.50	375.00	
Cementing or Reaming	200 ft. at $2.65	530.00	6,152.50
Hole No. 3 (700 ft., 100 ft. overburden)			
Driving Pipe	0 to 50 ft. - 50' at $9.90	495.00	
	50 to 100 ft. - 50' at $16.00	800.00	
Drilling	100 to 250 ft. - 150' at $5.35	802.50	
	250 to 500 ft. - 250' at $5.90	1,475.00	
	500 to 700 ft. - 200' at $6.70	1,340.00	
Cementing or Reaming	200 ft. at $2.65	530.00	5,442.50
Follow-Up Drilling (5 400-ft. holes, average 60 ft. overburden each)			
Driving Pipe	0 to 50 ft. - 50' at $9.90,	495.00	
	50 to 60 ft. - 10' at $16.00	160.00	
Drilling	60 to 250 ft. - 190' at $5.35	1,016.50	
	250 to 400 ft. - 150' at $5.90	885.00	
Cementing or Reaming	120 ft. at $2.65	318.00	
		2,874.50	
	5 holes		14,372.50
Total contractor's diamond drill cost			$29,507.50

- - - - - - - - - - - -

Date of Amendment: The effective date of the amendment should be May 1, 1954 and as drilling can only be done during the summer months, a period of 18 months should be provided in which to complete the contract. This will allow two summer seasons in which to complete the drilling.

Claims: The mining claims that may be benefitted by the proposed exploration are shown on the enclosed map. Six of the twelve claims shown are already listed in the contract. These claims are: Monday No. 6, Monday No. 7, Monday No. 8, Monday No. 10, M.W. No. 1, and M.W. No. 2.

The following six claims, all unpatented, should be added to the contract (book and page numbers are shown at which each of the claims is recorded in the office of the Recorder of Valley County, Cascade, Idaho).

M.W. No. 3	Book	6	Page	277
M.W. No. 17	"	12	"	502
Meadow Quartz No. 22	"	6	"	289
Meadow Quartz No. 23	"	12	"	506
Meadow Quartz No. 24	"	12	"	505
Meadow Quartz No. 25	"	6	"	246

We trust that this proposed amendment will meet with your approval.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Encl.

5 cc's: DMEA

JAN 24 1955

////////////////

P. O. Box 2057 505 South 16th Street

October 8, 1954

Bradley Mining Company
Stibnite, Idaho

ATTENTION: Mr. Keith O. Wallace

Gentlemen:

Confirming our recent conversation regarding your proposed four thousand foot drilling program for the 1955 season, we are very pleased to quote you the following prices:

I. SURFACE DRILLING
- A. 0' to 250' @ $5.35 per linear foot
- B. 250' to 500' @ 5.90 " " "
- C. 500' to 750' @ $6.70 " " "
- D. 750' to 900' @ $7.50 " " "
- E. Pipe driving:
  - 1. 0' to 50' @ $9.90 per linear foot
  - 2. 50' to 100' @ 16.00 " " "
  - 3. 100' to 150' @ 20.00 " " "

II. CEMENTING @ $2.65 per linear foot
III. REAMING @ $2.65 per linear foot
IV. MOBILIZATION @ $330.00

We wish to thank you for the opportunity to be of service to you. In the event that you wish to accept the prices and wish us to do the drilling, please contact us at least 60 days prior to the starting date.

Yours very truly,

NICHOLS & THOMPSON CORE DRIL. INC CO., INC.

Donald F. Nichols, Business Manager

August 30, 1954

Mr. John D. Bradley
Bradley Mining Co.
1022 Crocker Building
San Francisco 4, California

Dear Mr. Bradley:

Re: Future Exploration, Stibnite, Idaho

Past exploration work in the Stibnite district has been directed almost entirely toward probing the Meadow Creek fault, because of its obvious relation to the Meadow Creek and the Yellow Pine ore bodies. With the exception of the recent development in the DMA Tunnel, this exploration has been generally disappointing.

Because of the negative results of the previous exploration, geologic work this summer has been largely directed toward determining less obvious but still possible ore controls. The exploration program outlined below has evolved from this work.

The general lack of outcrops in this area makes impossible the actual mapping of structural geology. However, I have found a close correlation between rock alteration and faulting in the district, and am submitting herewith an interpretive geologic map on which structures are inferred from alteration evidence. The three degrees of alteration shown on the map also represent three degrees of fracturing. The fresh monzonite weathers in large rounded boulders. Altered monzonite weathers to flat-sided pieces and can seldom be found in sizes of greater than a foot diameter. The intensely altered rock, shown on the map in red, is so heavily fractured that it can be found only in small chips, degrading rapidly into soil.

The relative lack of resistance to weathering of the intensely altered material allows a topographic expression in the form of gullies or swales. The marked parallelism of gullies in the district leads to the further inference that these gullies are also fault-controlled.

With the aid of rock alteration and drainage pattern, the accompanying map has been prepared. It shows a strong possibility of the presence of faults not previously recognized. Alteration along these faults is hydrothermal and could be accompanied by metallization.

The modified structural picture in the Stibnite district is that of a strong central fault spine lying in the East Fork valley parallel to the Meadow Creek fault, with southwest branches to

the west and southeast branches to the east. This herringbone pattern furnishes several three-way fault intersections, which should be favorable loci for ore deposition.

The large Yellow Pine ore body occurs at the point of convergence of three main fault systems, one trending northerly, one to the northeast, the other to the southeast. The Meadow Creek ore body, which is smaller and more elongate than the former, lies at and near the intersection of two fault systems, one trending north, the other northeast. Each of these deposits is enclosed by a larger shell of moderate to intense alteration. Similarly the smaller deposits (DMA Tunnel) occur near fault intersections within strong shells of alteration.

The accompanying map shows the patches of alteration, in places intense, that may be found along the edge of the East Fork valley. These patches are commonly isolated from the Meadow Creek fault alteration belt, and must be considered as indications of a nearly completely buried belt of alteration lying along the floor of the East Fork valley. The presence of metallization along this belt where exposed (gold ore exposed at the foot of the DMA Tunnel road) shows that the East Fork fault has acted as a channelway for ore solutions. At the south end of the Yellow Pine pit, two narrow but relatively rich stibnite veins trending southeast along the East Fork valley have been cut in diamond drill holes. The drilling done in this vicinity indicates that this East Fork zone has channeled all or most of the ore at the south end of the pit.

Future exploration here should be directed toward the East Fork valley at zones of multiple fault intersections. I strongly recommend that the Bradley Mining Co. and the Defense Minerals Exploration Administration consider a surface diamond drillling program, not to exceed 4000 feet, to explore the East Fork canyon in the areas discussed below.

Three preliminary target areas are shown on the accompanying claim map. Each area should be explored by one drill hole. If these give positive results, they should be followed by secondary drilling to determine lateral extent in each zone.

The first target, on the south flank of Midnight Creek, is neither in the East Fork nor at a fault intersection. It lies in a southeast belt of intense alteration, and outcrops containing lenses of stibnite have been found within the zone. It may be significant that, relative to the Yellow Pine ore body, this zone occupies the same position to the south as the Homestake ore body does to the north. Both lie along the east edge of the arcuate border of faulting, equidistant from the Yellow Pine pit. I have proposed an easterly hole, drilled for 500 feet at -20° to explore this zone. As the target is elongate, secondary drilling should explore it along its northwest trend.

The second target is at the three-way intersection of the East Fork fault series and the inferred Fiddle Creek fault. The tails of stibnite ore leaving the south end of the pit trend toward this target. The old Monday Tunnel, driven along the Meadow Creek fault, intersected 160 feet of 1% antimony ore directly below Fiddle Creek. The old reports give no trend to this ore, and the tunnel is no longer accessible. However, it seems reasonable to assume that this ore lies at the intersection of the Meadow Creek and the Fiddle Creek faults. If this is true, then the Fiddle Creek fault has a control on ore deposition. The proposed target is at the intersection of these two ore bearing faults and a third, unexplored structure. The proposed initial drill hole here, about 800 feet long, is aimed north at -45° to explore this intersection. Because the target is expected to be more or less circular, secondary drilling should radiate away from the core along the intersecting faults.

The third target is also a three-way intersection; the Scout Ridge, the East Fork, and the southwesterly fault zones. The bulldozer cuts southwest of this target have exposed a broad zone of gold mineralization as well as small pockets of scheelite and stibnite. Scheelite can also be found irregularly scattered through the thick overburden northeast of these cuts. The Scout Ridge fault is known to contain stibnite southeast of the intersection. The East Fork fault is metallized to the south of this area. The third target therefore lies at the intersection of three ore-bearing faults. The initial drill hole here, about 700 feet long and at a -30° angle, is aimed at right angles to the southwest fault. This target again is circular and secondary drilling should radiate away from the core.

Any exploration program in a district with the past great antimony and tungsten production history of Stibnite should be looked upon with interest. The importance of an exploration project based on these three targets to future Stibnite exploration must be emphasized. The success of any one of the three will greatly alter the ore-finding philosophy for this district. So it is with wholehearted enthusiasm that I recommend this project to the Bradley Mining Co., and the Defense Minerals Exploration Administration.

Very truly yours

Peter Joralemon

Peter Joralemon
Consultant to Bradley Mining Co.

PJ/ja

JAN 1 0 1955

Mr. A. E. Weingarten
Executive Officer
DMEA Field Team, Region II
North 157 Howard Street
Spokane 1, Washington

Re: Contract No. DMA-0696 (Antimony)
Contract No. 14-[illegible]
Hughley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weingarten:

In accordance with your letter of December 2, 1954, recommending an extension of the completion period under the subject contract, we are forwarding the original and five copies of a proposed Amendment No. 4, signed by the Administrator.

If you and the Operator find the proposed amendment in order, please have the letter sign all six copies and make the usual distribution thereafter.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Director, Bureau of Mines

Thor H. Kiilsgaard

Director, Geological Survey

MChing/gla
1-6-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Resick, Rm. 3[illegible]
T.H. Kiilsgaard, Rm. 52[illegible]
Code 700
Mr. Ching

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

December 22, 1954

Memorandum

To: Acting Assistant Solicitor, DMEA

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-E153
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Will you kindly amend the subject contract by extending the completion period from 24 months to 33 months. The period for repayment of royalties should be increased from 10 years to 12 years.

In the event you determine that Article 9 of the subject contract should be further amended, consideration should be given to the use of the same provisions currently being contemplated with respect to Docket No. DMEA-1284 with the same company.

/s/ Michael Ching

Michael Ching

MChing/gla
12-22-54
cc to: Docket file
Code 700 contract file
Mr. Ching

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	2246.75	36,531.02	38,777.77	2246.75	36,531.02	38,777.77
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant		1,150.00	1,150.00		1150.00	1150.00
Supervision						
Technical Services		1,000.00	1,000.00		1000.00	1000.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.		503.08	503.08		503.08	503.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94		301.94	301.94
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		733.06	733.06		733.06	733.06
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	121.50	1,575.00	1,696.50	121.50	1575.00	1696.50
Payroll Taxes						
Liability Insurance						
Accounting		500.00	500.00		500.00	500.00
(8) Contingencies (specify):						
~~Preparatory Work~~		1,923.17	1,923.17		1923.17	1923.17
TOTALS	2368.25	44,217.27	46,585.52	2368.25	44217.27	46,585.52

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 1/25/55 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

1776 19

$ 1776 19

Signature [signature]
(Authorized Certifying Officer)

Date 2-4-55 Vou. No. 1428
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 453 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr Date 1-27-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 1-28-55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer: This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Airport	1'	2246.75	475	16,867.18	3566	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessey Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'			7,173.00	797	9.00	215	9.00
Ream & Case	1'			2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		121.50		5,151.52				
TOTAL DISTRIBUTED COSTS		2368.25		43,929.29				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				733.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		2368.25		46,585.52				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 1/25/55 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

January 13, 1955

DMEA Progress Report for December, 1954

Contract Idm-E 453

Progress

Scout Ridge Area

Diamond drill hole MC-62 was collared at the north end of Scout Ridge, 250 feet north of hole MC-60, and was drilled north 75° east, the same bearing as hole MC-60. The inclination of the hole was minus 40°. At the end of the month the hole was down 475 feet.

While all previous drilling under the contract was done by Nichols and Thompson Core Drilling Co., hole MC-62 was drilled by the Bradley Mining Co. Thirteen days were worked on a single shift basis, and twelve days were worked on a two-shift per day basis. Average advance was 12.8 feet per machine-shift.

Results

Hole MC-62 was located so as to cut the ore zone previously found in holes MC-58 and MC-60, about 250 feet north of the ore zone in hole MC-60. The hole was collared in fractured and sandy quartzite, and was in quartzite with patches of granite to 329 feet. The hole cut low-grade stibnite in quartzite from 260 to 300 feet -- antimony averaged 0.55 per cent for this 40 feet. Gold values were very low.

At 329 feet the hole entered the shear zone, in granite, that borders the east side of Scout Ridge. From 329 to 425 feet the granite was intensely altered and sheared, but metal values were very low. Sludge samples averaged only 0.17% antimony and 0.028 oz/ton gold. The shear zone to the south (in holes MC-58 and MC-60) was about 60 feet wide and contained an ore zone about 30 feet wide that averaged 1.11% antimony and 0.112 oz/ton gold. In hole MC-62, the shear zone was much wider (96 feet) but the ore zone was absent, or, if present, was cut in a very lean section.

At 425 feet hole MC-62 began to pass out of the shear zone proper, and was in alternately altered and partially altered granite to 475 feet. Drilling continued in January.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/js

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-M 453

December, 1954

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-62 475 ft. at $4.73		$2,246.75

Item 2 - Labor and Supervision

Technical Services	$81.61	
(none allowable)		0.00

Item 7 - Miscellaneous

Analytical Work

54 Antimony Assays at $1.50	$81.00	
54 Gold Assays at $0.75	40.50	121.50
(Exceeds contract estimated maximum)		
Total for "Other" Form MF-104-A		$ 121.50

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	4391.27	32,139.75	36,531.02			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~xxxx~~ Consultant		1,150.00	1,150.00			
Supervision						
Technical Services		1,000.00	1,000.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	85.68	417.40	503.08			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	160.00	573.06	733.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	139.50	1,435.50	1,575.00			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	475.00	500.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	4801.45	39,415.82	44,217.27	4801.45	39,415.82	44,217.27

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 12/31/54 *Payee Bradley Mining Co.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3601.08

Signature [signature]
(Authorized Certifying Officer)

Date 2-4-55 Vou. No. 1428
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /s/ Webster S. Anderson Title Mining Engr Date 12/29/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen N. Zoldok Title Mining Engr Date 12/29/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1954 Docket No. DMEA 2636 Contract No. Idp-R-453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drilling:								
Airport	1'	2525.02	534	14,620.43	3091	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hennessey Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	1566.00	174	7,173.00	797	9.00	215	9.00
Ream & Case	1'	299.45	113	2,016.65	761	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		250.18		5,030.02				
Total Distributed Costs		4641.45		41,561.04				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		160.00		733.06				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		4801.45		44,217.27				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 12/21/54 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

COPY

December 10, 1954

DMEA Progress Report for November, 1954

Contract Idm-E 453

Progress

Scout Ridge Area.

Diamond drill hole MC-59, drilled 89 feet in October, was completed to a length of 135 feet.

Hole MC-60 was collared near the crest of Scout Ridge, about 160 feet north of the line of hole MC-58, and was drilled north 77° east (approximately parallel to hole MC-58) at an inclination of minus 45°. The hole was completed to a length of 488 feet.

Hole MC-61 was collared east of the supposed trend of the ore zone and drilled west at minus 47°. The hole was located approximately 300 feet north of the line of hole MC-60. The hole was stopped at 174 feet, while still in overburden.

The logs of holes MC-59, MC-60 and MC-61 are enclosed with this report.

Results

Hole MC-59 tested the granite-quartzite contact on the west flank of Scout Ridge. The fractured and weathered nature of the rock made the exact bedrock location impossible to determine, but bedrock was probably encountered at 60 to 65 feet. A strong zone of shearing and alteration was cut west of the quartzite contact, but metal values were very low. Quartzite was entered at 114 feet and continued to the end of the hole at 135 feet.

Hole MC-60 was located so as to cut the antimony-gold zone first discovered in hole MC-58, some 160 feet north of the ore zone in hole MC-58. The hole was collared in fractured and decomposed quartzite and was in quartzite to 66 feet. From 66 to 197 feet the hole was in granite and aplite which was altered and sheared from 100 to 160 feet, but carried very low metal values. The hole was again in quartzite from 197 to 302 feet, with minor stibnite occurrences (highest assay: 0.40% Sb).

At 302 feet the hole entered the rather wide zone of shearing and alteration that borders the east flank of Scout Ridge. The most intensely altered part of the zone was 53 feet wide (from 302 to 355 feet) but some alteration of the granite was evident to the bottom

of the hole, and for short distances gouge and intense alteration was present in the last part of the hole. As an example, five feet near the bottom of the hole (from 465 to 470 feet) carried abundant fine-grained pyrite and assayed 0.205 oz/ton gold.

Assay results of the ore zone proper in hole MC-60 were as follows:

	Oz/ton Au	% Sb
315-320 feet	.085	.72
320-330	.135	3.76
330-335	.105	.82
335-340	.135	.26
340-345	.095	.39

Assays of the entire 30-foot width shown above averaged 0.115 oz/ton Au and 1.62% Sb; these values are considerably higher than the values from hole MC-58 (the ore zone in hole MC-58 averaged 0.109 oz/ton Au and 0.61% Sb).

In an attempt to decrease the amount of "dead" drilling footage necessary to reach the ore zone from holes collared on Scout Ridge, hole MC-61 was collared east of the ore zone and drilled west. It was hoped that the overburden in the area would be shallow enough to allow drilling a series of short holes to explore the ore zone to the north of hole MC-60; hole MC-61 was located so as to intersect the ore zone about 300 feet north of the ore intersection in hole MC-60. The hole was unsuccessful for two reasons: the depth of overburden was greater than anticipated, and the hole flattened out at depth. The hole was abandoned after reach 174 feet and not yet having entered bedrock.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace

KGW/ja

COORDINATES 23,361 N
22,484 E
ELEVATION 6,430

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-59

BEARING: N 75° E
INCLINATION: Minus 50°
Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Mine Core
0 - 65	Overburden; granite and quartzite boulders, gravel and sand to 24 feet, fresh granite to 65'. Overburden depth is uncertain -- may have been anywhere from 24 to 65'. Decomposed and fractured nature of rock makes bedrock location impossible to determine; best guess is between 60 and 65 feet.		Nil			MX
65 - 70	Completely altered granite. Some fine-grained sulfides	60	"	.020	.05	"
70 - 75	" " " " " " "	30	"	.025	.01	"
75 - 80	" " " " " " " to 78'; partially altered 78 to 80'	20	"	.030	.02	BX from 79'
80 - 85	Altered aplite	15	"	.010	.02	BX
85 - 90	" "	35	"	.005	Nil	"
90 - 95	" " to 94'; mica schist 94 to 95'	45	"	Tr	.03	"
95 -100	Mica schist to 98'; altered granite 98 to 100'	80	"	Tr	.04	"
100-105	Partially altered aplite	20	"	.005	.01	"
105-110	" " " to 109'; quartzite to 110'	10	"	Tr	.03	"
110-115	Altered aplite to 114'; quartzite to 115'	25	Tr	Tr	.01	"
115-120	Quartzite	85	Tr	.010	.02	"
120-135	"	70	Nil	Tr	.03	"

End of hole at 135 feet

Note: All assays are sludge assays. Trace and Nil values of WO3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 10/28/54; finished: 11/2/54

COORDINATES 23,672 E

23,028 S

ELEVATION 6,570

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-60

BEARING: N 77° E

INCLINATION: Minus 45°

Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 25	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	Nil	Tr	.03	NX
25 - 50	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	"	Tr	.05	NX at [illegible]'
50 - 75	Quartzite to 66'. Aplite 66 to 75'. Iron-stained along fractures	25	"	Tr	.05	NX
75 -100	Granite, partially altered. Iron-stained along fractures	35	"	Tr	.03	"
100-110	Altered granite, patches of fresh granite	40	"	.005	.40	"
110-115	Altered granite. Some fine-grained sulfides	20	Tr	.030	.13	"
115-120	Altered granite. Minor fine-grained sulfides	40	Tr	.015	.07	"
120-125	" " " " " "	10	Tr	.010	.05	"
125-130	" " " " " "	40	Nil	.015	.06	"
130-135	" " " " " "					
	Patches of fresh granite	65	"	.010	.04	"
135-140	Altered granite. Minor fine-grained sulfides	90	"	.025	.06	"
140-145	" " " " " "	70	"	.005	.06	"
145-150	" " " " " "	55	"	.015	.15	"
150-155	" " " " " "					
	Patches fresh granite	90	"	.010	.11	"
155-160	Altered granite. Minor fine-grained sulfides					
	Patches fresh granite	85	"	.020	.11	"
160-185	Mixed altered and fresh granite	60	"	.015	.06	"
185-210	" " " " " to 197'. Quartzite					
	197 to 210'	45	"	.010	.06	"
210-235	Quartzite. Practically no core from 217 to 227'	35	"	.010	.13	"
235-260	" Stibnite at 243'	70	"	.020	.40	AX at 242'
260-285	"	95	"	.020	.16	AX
285-290	" Stibnite at 286'	60	"	.010	.27	"
290-295	"	50	"	.010	.10	"
295-300	"	80	"	.015	.04	"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
300-305	Quartzite to 302'. Black gouge 302-303'. Completely altered granite, fine-grained sulfides 303 to 305'	60	No Sludge Sample			AX
305-310	Completely altered granite, fine-grained sulfides, some stibnite	25	Nil	.040	.25	"
310-315	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.055	.57	"
315-320	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.085	.72	"
320-330	Completely altered granite, fine-grained sulfides. Good stibnite	90	"	.135	3.76	"
330-335	Completely altered granite, fine-grained sulfides. Fair stibnite	95	"	.105	.82	"
335-340	Completely altered granite, fine-grained sulfides. Minor stibnite	95	"	.135	.26	"
340-345	Completely altered granite, fine-grained sulfides	95	"	.095	.39	"
345-350	" " " " " "	95	"	.025	.23	"
350-355	" " " " " "	80	"	.035	.28	"
355-360	Mixed altered and fresh granite	95	"	.035	.27	"
360-365	Mainly altered granite; patches fresh granite	90	"	.075	.27	"
365-370	Altered granite	75	"	.065	.16	"
370-375	Altered granite and gouge to 372'. Essentially fresh granite to 375'	70	"	.035	.19	"
375-380	Fresh and partially altered granite	35	"	.020	.09	"
380-385	" " " " "	60	"	.020	.47	"
385-390	Altered granite. Stibnite at 385'	35	"	.030	.35	"
390-395	" "	80	"	.040	.27	"
395-400	Partially altered granite	60	"	.020	.26	"
400-405	Gouge to 401', altered granite with patches fresh granite to 405'	75	"	.005	.19	"
405-410	Altered granite and gouge to 408', partially altered granite to 410'	40	"	.035	.23	"
410-415	Mainly fresh granite, patches of alteration	85	"	.010	.13	"
415-420	Fresh and partially altered granite	80	"	.005	.98	"
420-425	" " " " "	95	"	.010	.08	"
425-430	" " " " "	95	"	Tr	.05	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
430-435	Fresh and partially altered granite	70	Nil	.005	.06	AX
435-440	" " " " "	70	"	.005	.05	"
440-445	" " " " "	80	"	Tr	.05	"
445-450	" " " " "	50	"	Tr	.05	"
450-455	" " " " "	80	"	.005	.04	"
455-460	" " " " "	75	"	Tr	.03	"
460-465	" " " " " to 463'.					
	Altered granite with fine-grained sulfides to 465'	75	"	.005	.04	"
465-470	Completely altered granite with fine-grained sulfides	55	Tr	.205	.08	"
470-475	" " " " " " "					
	to 473'; partially altered granite to 475'	40	Nil	.100	.35	"
475-480	Partially altered granite	50	"	.030	.18	"
480-485	Fresh and partially altered granite	90	"	.025	.16	"
485-488	" " " " "	85	"	.040	.15	"

End of hole at 488 feet

Note: All assays are sludge assays. Trace and Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 11/2/54; finished: 11/13/54.

COORDINATES 24,028 N

23,378 E

ELEVATION 6,566

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-61

BEARING: N 86° W

INCLINATION: Minus 47°

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -174	Overburden. Mainly sand; some quartzite and granite boulders, and pebbles.		Nil			

End of hole at 174 feet.

Hole was abandoned before reaching bedrock when it became apparent that it had flattened out appreciably--inclination at the bottom of the hole was probably about minus 20° to 30° instead of the original minus 47°.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 11/14/54; finished: 11/22/54.

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Short Form Contracts:						
Drilling	4627.70	27,512.05	32,139.75			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Consultant	30.00	1,120.00	1,150.00			
Supervision						
Technical Services	37.68	962.32	1,000.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	132.20	285.20	417.40			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		573.06	573.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	144.00	1,291.50	1,435.50			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	450.00	475.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	4996.58	34,419.24	39,415.82	4996.58	34,419.24	39,415.82

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 11/29/54 *Payee Bradley Mining Co.
Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3747 44

Signature [signature]
(Authorized Certifying Officer)

Date 12/10/54 Vou. No. 1365
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr. Date 12/2/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr. Date 12/6/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

104A
(1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

Drilling: OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting ~~xxxx~~ Airport	1'	3760.35	795	12,094.61	2557	4.73	3000	4.73
Crosscutting ~~xxxxxxx~~ SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Raising ~~xxxx~~ Hennessey Cr.	1'			2,988.60	586	5.10	500	5.10
Shafts ~~xxxx~~ North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping ~~xxxxxx~~ Driving Pipe	1'	711.00	79	5,607.00	623	9.00	215	9.00
Trenching ~~xxxxx~~ Ream & Case	1'	156.35	59	1,717.20	648	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		368.88		4,779.84				
Total Distributed Costs		4996.58		36,919.59				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				573.06				1,280.00
Contingencies				1,923.17				3,038.00
Total Costs		4996.58		39,415.82				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 11/29/54 Operator Bradley Mining Co.

Per G. Clinton Title Assistant Secretary

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

November 22, 1954

DMEA Progress Report for October, 1954

Contract Idm-I 453

Progress

Scout Ridge Area.

Diamond drill hole MC-58 in the Scout Ridge area, drilled 56 feet in September, was completed to a length of 735 feet. The hole was drilled to 490 feet and was being reamed for casing when a shell and bit sheared off at 385 feet. All attempts to retrieve the shell and bit were unsuccessful, so the hole was deflected at 384 feet and drilling was resumed from that point. Thus, the total footage drilled was 841. The log of this hole is enclosed.

Hole MC-59, started in October, was collared about 125 feet west of the collar of hole MC-58 and was drilled N 75° E at an inclination of minus 50°. Pipe was driven to 79 feet and the hole was down to 89 feet at the end of the month.

Geology

Scout Ridge Area.

Hole MC-58 entered bedrock (quartzite) at 27 feet and was in quartzite with occasional tongues of granite and aplite (up to 19 feet wide) to 654 feet. The quartzite in the first part of the hole carried very minor stringers and disseminations of stibnite. At 654 feet the hole entered the shear zone that borders the east flank of Scout Ridge. From 654 to 717 feet the rock was intensely altered and sheared granite carrying fair amounts of sulfide mineralization. The granite was partially altered from 717 feet to the end of the hole at 735 feet.

The highest assay values from the shear zone were 0.61% antimony for 35 feet (from 680 to 715 feet) and 0.109 oz/ton gold for 30 feet (from 685 to 715 feet).

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/js

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

October, 1954

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport and Scout Ridge Area

Hole MC-58	(Hole was drilled to length of 490 ft., at which time drilling difficulties made it necessary to deflect the hole at 384 ft. From 384 ft. the hole was drilled to a length of 735 ft. Thus, total footage drilled was 841 ft., 56 ft. in September and 785 ft. in October).		
	785 ft. at $4.73	$3,713.05	
Hole MC-59	10 ft. at $4.73	47.30	
			$3,760.35

Driving Pipe:

Hole MC-59	79 ft. at $9.00		711.00
	(In excess of contract pipe driving footage)		

Reaming:

Hole MC-58	59 ft. at $2.65		156.35
			$4,627.70

Item 2 - Labor and Supervision

Consultant	2 days at $50.00	$ 100.00	
	(Exceeds contract maximum allowable)		$ 30.00
Technical Services		127.78	
	(Exceeds contract maximum allowable)		37.68

Item 3 - Operating Materials and Supplies		
Miscellaneous - Core Boxes		132.20
Item 7 - Miscellaneous		
Analytical Work		
64 Antimony Assays at $1.50	$ 96.00	
64 Gold Assays at $0.75	48.00	
		144.00
($110.50 in excess of contract allowable amount for analytical work)		
Accounting		25.00
Total for "Other", Form MF-104A		$ 368.88

COORDINATES: 23,396 N
22,607 E

ELEVATION: 6,445

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MG-58

BEARING: N 75° E

INCLINATION: Minus 20°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 20	Overburden. Fresh granite and quartzite boulders, gravel and sand		Nil			
20 - 30	Bedrock at 27 feet. Quartzite with minor pyrite and stibnite 27-30'		"	.005	.08	
30 - 35	Quartzite	90	"	.005	.02	NX
35 - 40	Quartzite and aplite with minor fine-grained sulfides	75	"	.025	.02	"
[illegible] - 45	Aplite to 41', quartzite 41 to 45'	90	"	Tr	.01	"
45 - 50	Quartzite	85	"	.005	Nil	"
50 - 65	"	90	"	Tr	"	BX at 62'
65 - 80	"	85	"	Tr	.01	BX
80 - 95	"	90	"	Tr	.02	"
95 -110	"	90	"	Tr	.01	"
110-125	"	95	"	Tr	.01	"
125-140	"	95	"	Tr	.01	"
140-155	"	55	"	Tr	Nil	"
155-170	Quartzite to 158'; aplite 158 to 165'; mica schist 165 to 170'	85	"	.005	Nil	"
170-185	Aplite to 172'. Quartzite 172-185'	80	"	.005	.01	"
185-200	Quartzite	60	"	.005	.01	"
200-215	"	65	"	Tr	.01	"
215-230	Quartzite to 219; aplite 219-224; quartzite 224-227; aplite 227-230'	25	"	Tr	.02	"
230-235	Quartzite	55	"	Tr	.04	"
[illegible]5-240	"	50	"	.005	.02	"
240-245	"	30	"	.010	.04	"
245-260	Quartzite to 253'; fresh granite 253-260'	65	"	.010	.01	"
260-275	Fresh granite to 271'; quartzite to 275'	80	"	.010	Nil	"
275-290	Quartzite to 288'; aplite 288-290'	50	"	.015	.03	"
290-305	Quartzite	40	"	.015	.01	"
305-320	"	10	"	.015	Nil	AX at 309'

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
320-335	Quartzite	25	Nil	.010	Nil	AX
335-350	"	30	"	.005	.01	"
350-365	Quartzite to 364; aplite 364-365'	30	"	.005	.01	"
365-380	Aplite	60	"	.010	.03	"
380-395	Aplite to 383. Quartzite 383-395. Coarse-grained pyrite at 383'	45	"	.025	.04	"
395-410	Quartzite to 407'; aplite 407-410'	40	"	Tr	.02	"
410-425	Quartzite to 418'; aplite 418-425'	40	"	.015	.02	"
425-440	Quartzite	20	"	.010	.01	"
440-455	"	20	"	.010	.03	"
455-470	"	15	"	.010	.11	"
470-485	"	15	"	Tr	.06	"
485-490	"	20	"	.005	.05	"
	Bit and shell sheared off at 385 feet as hole was being reamed. All attempts to recover bit and shell were unsuccessful, so hole was deflected about 2° south at 384 feet.					
384-395	Quartzite	10	Not Assayed			"
395-410	Quartzite to 406. Aplite 406-408'; quartzite 408-410'	55	"	"		"
410-425	Quartzite	60	"	"		"
425-440	"	15	"	"		"
440-455	"	20	"	"		"
455-470	"	10	"	"		"
470-485	"	10	"	"		"
485-490	"	15	"	"		"
490-505	Quartzite to 495. Mica schist 495-498'. Quartzite 498-505'	45	Nil	.005	.04	"
505-520	Quartzite to 509. Aplite 509 to 512'. Quartzite 517 to 520'	85	"	.005	Nil	"
520-535	Quartzite	90	"	.010	.04	"
535-550	"	60	"	.010	.03	"
550-565	Quartzite to 548'; mica schist 548-557'; quartzite 557-565'	80	"	.005	.09	"
565-580	Quartzite	65	"	.005	.07	"
580-595	"	60	"	.005	.07	"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
595-610	Mica schist	90	Nil	Tr	.07	AX
610-625	" "	65	"	.005	.04	BX at
625-640	" "	70	"	.030	.05	" 623'
640-645	" "	50	"	.035	.11	"
645-650	" " , altered and soft 649-650'	70	"	.110	.41	"
650-655	Mixed mica schist and altered granite. Fine-grained sulfides	15	"	.030	.10	"
655-660	Completely altered granite. Fine-grained sulfides	20	"	.035	.10	"
660-665	" " " " " " Good stibnite at 663'	30	"	.040	.78	"
665-670	Completely altered granite. Fine-grained sulfides	20	"	.020	.10	"
670-675	" " " " " " Strong fault zone - heavy gouge - from 670 to 680'	5	"	.030	.06	"
675-680	No core recovery	0	"	.025	.08	"
680-685	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.025	.76	"
685-690	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.090	.42	"
690-695	Completely altered granite. Fine-grained sulfides. Good stibnite 692-695'	60	"	.105	1.15	"
695-700	Completely altered granite. Fine-grained sulfides. Good stibnite	60	Sludge lost			"
700-705	Completely altered granite. Fine-grained sulfides. Stibnite	95	Nil	.115	.40	"
705-710	Completely altered granite. Fine-grained sulfides. Stibnite	55	"	.120	.54	"
710-715	Mainly altered granite. Some patches fresh granite. Good stibnite at 713'	95	"	.115	.40	"
715-720	Mainly altered granite. Some patches fresh granite. Stibnite at 716'	85	"	.040	.20	"
720-725	Mixed altered and fresh granite	55	"	.035	.28	"
725-730	Mainly fresh granite. Patches of altered granite.	85	"	.025	.19	"
730-735	" " " " " " "	15	Sludge lost			"

End of hole at 735 feet.

Note: All assays are sludge assays. Nil values of WO3 determined by lamping. All core and sludges lamped. Hole drilled by Nichols and Thompson Core Drilling Co. Date started: 9/27/54; finished: 10/27/54.

12/13/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~XXXXXXXXXXXXXXXXXX~~
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

December 10, 1954

Mrs. Myrtle Purdy
Certifying Officer
DMEA Field Team, Region II
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mrs. Purdy:

As shown on the Operator's invoice for November 1954, the estimated cost for analytical work has been exceeded. As more analytical work will be required to complete the contract, you are authorized to use the Contingency funds for furtner analytical work.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)

IF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 1/13

REFERRED TO:
1. Mr. Elles H.
2. ~~Mr. Blair~~
3.
4. Elec. contract file

FOR:

..... Action	..... Recommendation
..... Approval	..... Record
..... Comment	of .....
..... Conference	..... Referring
..... Consideration	to .....
..... Filing	..... Reply for signa-
..... Instructions	ture of .....
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Amend in accordance with policy
Meeting on DMEA 12-84
Add 2 years to development period of projects
Extend completion period from 24 months
to 33 months.

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

12/13/54 gla

XXXXXXXXXXXXXXXX
No. 137 Howard Street
Spokane 4, Washington

December 2, 1954

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-8636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Ida-8453

Dear Mr. Selfridge:

Enclosed is a letter dated November 22, 1954, from Mr. K. G. Wallace, assistant manager of the Bradley Mining Company's Yellow Pine mine, in which a request is made to extend the completion date of the contract to permit finishing the diamond drilling. Originally the contract work was to have been completed within 24 months. Amendment No. 1 extended the completion period to 36 months. According to Amendment No. 1 the expiration date is November 25, 1954.

The information we have shows that the following items still remain to be completed:

1,210 feet of diamond drilling at		$4.75 per foot
400 feet of stemsipping at		$9.00 per foot
190 feet of reaming and casing at		$2.65 per foot

Total unexpended funds remaining in the contract are $9,719. These figures are close approximations, being based on information received on the operator's monthly reports and in two letters we have received this month.

According to the enclosed letter from Mr. Wallace and to one he sent us on November 10, 1954, the diamond drilling in the Scout Ridge area has intersected a fairly promising mineralized zone. Hole MC-60 intersected 30 feet which averaged 0.111 ounce per ton gold and 1.19 percent antimony. Hole MC-58 intersected a zone 30 feet of which averaged 0.109 ounce per ton gold and 35 feet of which averaged 0.61 percent antimony. Thus, the dollar value per ton of this zone is roughly equivalent to that of the ore in the Yellow Pine open pit, (based on operator's statement).

Winter weather conditions will soon make it impracticable to continue drilling this fall, and it will probably be June or July before drilling from surface locations can be resumed. Therefore, we recommend that the time for completion of the contract work be extended another 5 months, which should be sufficient to allow all drilling to be completed.

By Field Team, Region II

A. E. Weissenborn, Mine. Officer
U. S. Geological Survey

Wing S. Agnew, Director
U. S. Bureau of Mines

Enclosure

cc: USGS (2)
USBM (AD)
Fairbrit

HEAD OFFICE:
428 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 608

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER

STIBNITE, IDAHO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 13 1954

November 22, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA 2636
(Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E 453

Gentlemen:

This will acknowledge and thank you for your letter of November 15, 1954, giving approval for additional drilling of the ore zone along the east side of Scout Ridge.

Hole MC-60 has been completed to a length of 488 feet. As mentioned in my letter of November 10, the shear zone was entered at 300 feet. Assays for the zone were as follows:

Hole MC-60	Oz/ton Au	% Sb
300 - 305	Sludge Lost	
305 - 310	.040	.25
310 - 315	.055	.57
315 - 320	.085	.72
320 - 330	.135	3.70
330 - 335	.105	.82
335 - 340	.135	.26
340 - 345	.095	.39

Assays are as yet incomplete, but beyond 345 feet are generally low (the rock beyond 345 feet was alternately altered and fresh granite). A narrow mineralized zone from 465 to 470 feet assayed 0.205 oz/ton gold, with antimony assays not yet available. The ore zone proper (from 315 to 345 feet) averages 0.111 oz/ton gold and 1.19% antimony.

The trend of the ore zone, as indicated by holes MC-58 and MC-60, seems to be slightly east of north. Hole MC-61 was collared about 300 feet north of MC-60 and drilled west (collar coordinates 24,028 N and 23,388 E, elevation 6566, inclination minus 47°). We estimated the overburden in the area to have a depth of not over 50 feet; however, the hole is today down to 173 feet and is still in overburden. We believe the hole has deflected up and therefore should be abandoned. Further drilling should, whenever possible, be collared at the north end of Scout Ridge and directed northeast to prospect the area that hole MC-61 was intended to prospect. Holes thus located should avoid the overburden encountered in hole MC-61.

RECEIVED
NOV 2[illegible]
SP[illegible]

Our weather this fall has been extremely mild and we would like to continue this drilling program as long as weather conditions permit. Perhaps drilling could be continued until the end of the year and resumed early next spring. In order to do this, however, it will be necessary to extend the time allowed by the contract. From your letter of November 5, 1954, we gather that you favor extending the completion date of the contract, and we will, therefore, continue drilling unless we receive word to the contrary from you.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA, Spokane

11/23/54 gla

XXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

November 15, 1954

Mr. Keith G. Wallace, Assistant Manager
Bradley Mining Company
Stibnite, Idaho

Re: Docket No. DMEA 2636 (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Wallace:

Thank you for your letter of November 10, 1954, enclosing the assay data obtained from sampling the core in diamond drill hole No. MC-58.

The information in your letter regarding the findings in hole No. MC-60 suggests that further drilling of the ore zone from the east side of Scout Ridge is justified. As there remains a substantial amount of unexpended funds for diamond drilling in the contract, we believe these funds should be used to explore along the indicated strike of the zone.

Therefore, this letter is a confirmation of your interpretation of the contract and gives approval for the additional drilling as suggested in your letter.

By Field Team, Region II

A. H. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing S. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2) w/2 cys incoming
USBM (2) "
USBM (AD)
Puffett w/1 cy incoming

HEAD OFFICE:
428 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

WAP 11-15-54

November 10, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA-2636
(Antimony)
Yellow Pine Mine
Valley County, Idaho
Contract Idm-E 453

Gentlemen:

Your letter of November 5, 1954, has been received. As requested, here are the assays from the ore zone cut by hole MC-58. One assay was spoiled and will be rerun.

Hole MC-58	Oz/ton Au	% Sb
640 - 645 ft.	.035	.11
645 - 650	.110	.41
650 - 655	.030	.10
655 - 660	.035	.10
660 - 665	.040	.78
665 - 670	.020	.10
670 - 675	.030	.06
675 - 680	.025	.08
680 - 685	.025	.76
685 - 690	.090	.42
690 - 695	.105	1.15
695 - 700	Assays to be rerun	
700 - 705	.115	.40
705 - 710	.120	.54
710- 715	.115	.40
715 - 720	.040	.20
720 - 725	.035	.28
725 - 730	.025	.19
730 - 735	Sludge lost	

Assuming the missing assays will run about the same as the assays of the remainder of the samples from the ore zone, then gold from 685 to 715 feet (30 feet) averages 0.109 oz/ton, and antimony from 680 to 715 feet (35 feet) averages 0.61%. The good gold content of the zone makes the dollar value per ton nearly equivalent to that of the ore in the Yellow Pine open pit.

Hole MC-59, drilled on the west flank of Scout Ridge, was completed to a length of 135 feet. A strong shear zone was cut at the granite-quartzite contact, but no ore was found.

RECEIVED
NOV 15 1954
U. S. G. S.
SPOKANE, WASH.

Hole MC-60, now being drilled, is down 310 feet. From 0 to 66 feet the hole was in quartzite. From 66 to 197 feet the hole was in granite, in places sheared and altered, but apparently not ore. The hole was again in quartzite from 197 to 300 feet. At 300 feet it entered a very strong shear zone with fair to good stibnite (this should be the same zone cut by hole MC-58).

With your approval, we propose to continue drilling the ore zone on the east side of Scout Ridge -- it lies along a strong north-trending fault and we believe it is proving to be an extremely promising discovery. We would like to follow the zone north with inclined holes (similar to hole MC-60) spaced at 200 to 300-foot intervals along the strike of the zone.

Your field men, Mr. Puffet and Mr. Anderson, assured us on their last visit that we may use the large amount of unexpended money available in the contract under reaming and casing for diamond drilling. In other words, we can exceed the 6,500 feet of drilling provided for in the contract as long as we don't exceed the total cost specified. If this is the case, there will be enough money remaining to drill several more holes. As we are approaching the contract footage limitation (approximately 888 feet remaining today, or enough to complete hole MC-60 and drill two additional holes) we would appreciate receiving confirmation of the above interpretation of the contract. Additional drilling certainly appears to be justified by results thus far achieved in the Scout Ridge Area.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA, Spokane

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 11-9

REFERRED TO:

1. 700 Mr. Ebbin
2. ~~Mr. Chase~~
3.
4. Dis contract file

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: Contract completion date is Nov. 25, 1954

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

11/10/54 gla

Minerals Administration
RECEIVED
NOV 8 - 1954

XXXXXXXXXXXXXXXXX
No. 157 Howard Street
Spokane 4, Washington

November 5, 1954

Mr. K. G. Wallace
Assistant Manager
Yellow Pine Mine Smelter
Bradley Mining Co.
Stibnite, Idaho

Re: Docket No. DMEA-265c (antimony)
Yellow Pine Mine
Valley County, Idaho
Contract No. Ism-545

Dear Mr. Wallace:

In answer to your letter of October 28, 1954, we believe that diamond drill holes MC-59 and MC-60 are well located and this letter will authorize you to go ahead with them. We would appreciate receiving the assay results for hole MC-58 as soon as possible.

In answer to the last paragraph of your letter, if weather conditions do stop the drilling before it is completed, please let us know and we will ask our Washington office to give you an extension on the completion date so that the project can be completed next year.

By Field Team, Region II

W. L. Weissenborn, Executive Officer
U. S. Geological Survey

Wm. G. Agnew, Member
U. S. Bureau of Mines

cc: Bradley Mining Co.
1022 Crocker Building
San Francisco, California

DMEA (2) w/2 cys incoming
USBM (2)
Puffett

COPY

COPY

HEAD OFFICE:
425 Crocker Bldg.
San Francisco 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

October 28, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA 2636
(Antimony)
Contract No. Idm-E 453

Gentlemen:

Diamond drill hole No. MC-53, drilled in the Scout Ridge Area (authorized by Amendment No. 3 to the subject contract) has today been completed to a length of 735 feet. The location of this hole is shown as "Proposed D.D.H." on the map titled "Geologic Map of Scout Ridge Area", submitted with our request for Amendment No. 3, dated August 7, 1954.

Briefly, the hole was in quartzite for most of the distance drilled. The hole entered bedrock at 27 feet and the first few feet of quartzite beyond 27 feet had small stringers and disseminations of stibnite. At about 650 feet the hole entered the shear zone that borders the east flank of Scout Ridge. From 650 to 717 feet, the rock was intensely altered granite carrying appreciable amounts of stibnite and pyrite. Assays for this zone are not yet available, but the core looks good -- if not quite ore, it is at least "ore type" mineralization. At 717 feet the granite turned fresh with only patches of alteration to the end of the hole.

Mr. Peter Joralemon recommends the following two holes be drilled next; I am writing to obtain your approval of this drilling.

Hole MC-59. To be collared at coordinates 23,360 North and 22,475 East, bearing N 75° E, inclination minus 45°. This hole will be collared 150 feet west of the collar of MC-53 and drilled in the same direction. It is believed that the granite-quartzite contact on the west flank of Scout Ridge should be investigated, especially as the quartzite in the first part of MC-53 contained stibnite. A 250 to 300-foot hole should be sufficient for this purpose.

Hole MC-60. To be collared at cooredinates 23,670 North, 23,025 East, bearing N 75° E, inclination minus 45°, length 350 feet. This hole will be drilled parallel to MC-58 from near the crest of Scout Ridge, about 160 feet north of the line of hole MC-58. It will be in quartzite for about 200 feet, in which distance it may cut the belt of stibnite occurrences exposed in surface cuts on Scout Ridge. The final 150 feet of the hole will explore the antimony-bearing shear zone cut by hole MC-58.

I note that the completion date of this contract is November 25, 1954. Will it be possible to extend the completion date one year, in case the weather forces us to suspend drilling this season before the the contract is completed?

Very truly yours

BRADLEY MINING CO.

/s/ K. G. WALLACE
K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

U.S. DEPT. OF INTERIOR
Defense Minerals Administration
RECEIVED
NOV 10 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted]t Short Form Contracts:						
Drilling	3,261.33	24,250.72	27,512.05			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
[redacted] Consultant		1,120.00	1,120.00			
Supervision						
Technical Services	110.40	851.92	962.32			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	48.17	237.03	285.20			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		573.06	573.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	87.75	1,203.75	1,291.50			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	425.00	450.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	3,532.65	30,886.59	34,419.24	3532.65	30,886.59	34,419.24

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10/25/54 *Payee BRADLEY MINING CO.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2649 49

Signature [signature]
(Authorized Certifying Officer)

Date 11/3/54 Vou. No. 1335
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature 151 Webster S. Anderson Title Mining Engr Date 11-1-54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Thomas E Howard Title Mining Engr Date 11-1-54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

Defense Minerals
RECD
NOV 8 - 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
~~Drifting~~ Airport	1'	2298.78	486	8,334.26	1762	4.73	3000	4.73
~~Crosscutting~~ SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessy Cr.	1'			2,988.60	586	5.10	500	5.10
~~Sinking~~ North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes					4461			
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Driving Pipe	1'	891.00	99	4,896.00	544	9.00	215	9.00
~~Trenching~~ Ream & Case	1'	71.55	27	1,560.85	589	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		271.32		4,410.96				
TOTAL DISTRIBUTED COSTS		3532.65		31,923.01				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				573.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		3532.65		34,419.24				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 10/25/54 Operator BRADLEY MINING CO.

Per [signature] Title Assistant Secretary

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

September, 1954

Item 1 - Unit Costs, Diamond Drilling			
Drilling:			
Airport and Scout Ridge Area			
Hole MC-57	430 ft. at $4.73	$2,033.90	
Hole MC-58	56 ft. at $4.73	264.88	
			$ 2,298.78
Driving Pipe:			
Hole MC-57	99 ft. at $9.00		891.00
	(In excess of contract pipe driving footage)		
Reaming:			
Hole MC-58	27 ft. at $2.65		71.55
			$3,261.33
Item 2 - Labor and Supervision			
Technical Services			$ 110.40
Item 3 - Operating Materials and Supplies			
Miscellaneous - Core Boxes			48.17
Item 7 - Miscellaneous			
Analytical Work			
39 Antimony Assays at $1.50		$58.50	
39 Gold Assays at $0.75		29.25	
			$ 87.75
Accounting			25.00
Total for "Other", Form MF-104A			$ 271.32

October 20, 1954

DMEA Progress Report for September, 1954

Contract Idm-E 453

Progress

Airport and Scout Ridge Area.

Diamond drill hole MC-57, started in August in the Airport Area, was completed to a length of 703 feet. The depth of overburden in the area was much greater than anticipated; bedrock was reached at 273 feet. The log of this hole is enclosed.

Hole MC-58 was started in September. It is the first hole to be drilled at Scout Ridge, as authorized by Contract Amendment No. 3. The location of the hole is shown on the map enclosed with our request for amendment dated August 7, 1954. Bedrock was reached at 27 feet and the hole was down to 56 feet at the end of the month.

Geology

Airport and Scout Ridge Area.

Hole MC-57 was virtually barren throughout its length. The hole was drilled in fresh granite and aplite, with only a few narrow patches of altered granite. Only minor amounts of antimony, tungsten or gold were found: the highest values were 0.06% antimony, traces of tungsten and 0.055 oz/ton gold.

Note: The collar location of diamond drill hole MC-56, drilled in September and October, 1953, has been resurveyed. The corrected collar location is as follows:

Coordinates: 19,723 North and 20,098 East
Elevation: 6,550 feet.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COORDINATES: 19,169.3 N

21,029.2 E

ELEVATION: 6,548.0

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-57

BEARING: N 47° W

INCLINATION: Minus 47½°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -274	Overburden. Fresh granite boulders, gravel & sand		Nil			
274-290	Fresh granite. Weathered (iron-stained) along fractures	50	No sludge			BX
290-315	" " " " " " "	55	Nil	.015	.01	"
315-335	Fresh granite to 318. Aplite 318 to 335. Weathered along fractures.	85	Nil	.015	.05	AX at 323
335-340	Fresh aplite. Weathered along fractures	70	No sludge			AX
340-365	Fresh granite. Patches of aplite	80	Nil	.010	.05	"
365-395	" "	90	Tr	.035	.03	"
395-420	" " Few patches of aplite	75	Nil	.005	.01	"
420-429	" "	65	Nil	.005	.02	"
429-433	" "	70	Nil	Tr	.02	"
433-437	" " Aplite with small stringers fine-grained sulfides 434 to 435'	55	Nil	Tr	.01	"
437-440	Completely altered granite and aplite. Few fine-grained sulfides	65	Nil	.005	.06	"
440-445	Completely altered granite to 441'; fresh granite to 442'; brecciated and altered granite, some aplite, 442 to 445'	70	Nil	.055	.06	"
445-450	Brecciated, altered granite and gouge to 447'; partially altered to 449'; fresh granite 449 to 450'	75	Nil	.020	.04	"
450-470	Fresh granite. Patch of alteration at 453'	95	No sludge			"
470-475	Essentially fresh granite and aplite	95	Nil	.015	.01	"
475-483	Fresh granite, some aplite	55	No sludge			"
483-487	Fresh granite	30	Nil	.015	.02	"
487-492	" "	80	Nil	.025	.05	"
492-505	" " minor aplite	85	No sludge			"
505-510	Hard, fresh aplite	70	Nil	.015	.02	"
510-520	Fresh granite to 512'; fresh aplite to 514'; fresh granite to 515'; fresh aplite to 518'; fresh granite to 520'	75	No sludge			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
520-525	Mixed fresh granite and aplite	45	Nil	.020	.06	AX
525-530	Fresh granite to 527'; fresh aplite to 528'; fresh granite to 530'	75	No sludge			"
530-537	Fresh granite; some aplite. Minor alteration at 536'	85	Nil	.015	.02	"
537-542	Fresh granite	70	Nil	.035	.02	"
542-547	Fresh granite to 544'. Aplite to 547'. Minor alteration at 544'	90	Nil	.020	.04	"
547-552	Fresh aplite to 551'. Fresh granite to 552'	55	Nil	.020	.02	"
552-557	Fresh granite	95	Nil	.030	.01	"
557-565	Fresh granite. Partially altered 564 to 565'	60	No sludge			"
[illegible]-570	Mainly fresh aplite; some fresh granite	30	Nil	.015	.01	"
570-580	Fresh aplite to 572'; partially altered aplite 572 to 580'	35	No sludge			"
580-585	Mainly fresh aplite	20	Nil	.020	.01	"
585-590	Fresh granite	30	Nil	.005	.02	"
590-595	" "	35	Nil	.010	.01	"
595-600	" "	40	Nil	.005	.01	"
600-605	Fresh aplite; some fresh granite	25	Nil	Tr	.01	"
605-609	Fresh granite	70	Nil	.015	Nil	"
609-615	" " Patch of alteration at 611'	70	Nil	.020	Nil	"
615-621	Fresh aplite to 616'. Fresh granite 616 to 621'	85	Tr	.010	Nil	"
621-627	Fresh granite to 626; fresh aplite 626 to 627'	80	Nil	.010	Nil	"
627-650	Fresh granite. Small patches of aplite	85	Nil	.015	Nil	"
650-675	" " " " " " . Minor patch of alteration at 672'	70	Nil	.015	Nil	"
675-703	Mixed fresh granite and aplite to 684'. Partially altered aplite 684 to 693'. Completely altered granite, some gouge 693 to 696'. Mainly fresh granite (very minor alteration) 696 to 703'	50	Nil	.010	.03	"

End of hole at 703 feet

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 8/9/54; finished: 9/25/54.

10/19/54 gka

xxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

October 13, 1954

Bradley Mining Company
1022 Crocker Building
San Francisco, California

Re: Docket No. IMM-2656 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Gentlemen:

Enclosed are several copies of a proposed Amendment No. 3 to the captioned contract, executed by the Administrator.

If the terms and conditions of this amendment meet with your approval, please sign all copies, retain that copy marked for the Operator and return the remaining copies to this office.

Sincerely yours,

[illegible] Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: DMEA (2)
USBM (2)
Puffett

10/8/54 gh

OCT 8 1954

xxxxxxxxxxxxxxxxx

Spokane, Washington
September 30, 1954

Mrs. Myrtle Purdy
Certifying Officer
DMEA Field Team, Region II
Spokane, Washington

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mrs. Purdy:

I have been informed that the Operator's August 1954 forms MF-104 and 104A show 445 feet of driving on surface and 562 feet of reaming and casing as having been completed. The contract authorizes only 215 feet of driving pipe at $9.00/ft. or $1,935.00, and 3850 feet of reaming and casing at $2.65/ft. or $10,202.00. The authorized footage for driving pipe has already been exceeded by 230 feet, and it appears that more footage will be required to complete the contract, whereas only 562 feet of casing and reaming footage out of 3850 feet authorized has been used and it is likely that this entire footage will not be needed.

Inasmuch as the authorized footages for driving pipe, drilling and reaming and casing are estimates only, any one of these categories can be exceeded at the expense of any other, provided, however, that the total dollar amount authorized is not exceeded and the Field Team is informed of the change.

Sincerely yours,

/s/ A. E. WEISSENBORN

A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II

cc: USM (2)
Puffett
DMEA(2)

SWZ/he

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED
OCT - 4 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Preparatory~~ Short Form Contracts:						
Drilling	1,566.00	22,684.72	24,250.72			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant	200.00	920.00	1,120.00			
Supervision						
Technical Services	51.92	800.00	851.92			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	16.48	220.55	237.03			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	92.00	481.06	573.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		1,203.75	1,203.75			
Payroll Taxes						
Liability Insurance						
Accounting	25.00	400.00	425.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	1,951.40	28,935.19	30,886.59	1951.40	28935.19	30886.59

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 9/24/54 *Payee Bradley Mining Co.

Per G Wilson Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1463 55

Signature MJP
(Authorized Certifying Officer)

Date 9/29/54 Vou. No. 1301
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-453 in accordance with the terms of the contract.

Signature /s/ Webster S Anderson Title Mining Engr Date 9/27/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr Date 9/27/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 4 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1954 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Airport	1'			6,035.48	1276	4.73	3000	4.73
SE of Pit	1'			5,833.24	1162	5.02	1500	5.02
Hannessey Cr.	1'			2,988.60	586	5.10	500	5.10
North Tunnel	1'			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Driving Pipe	1'	1,566.00	174	4,005.00	445	9.00	215	9.00
Ream & Case	1'			1,489.30	562	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		293.40		4,139.64				
TOTAL DISTRIBUTED COSTS		1,859.40		28,390.36				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		92.00		573.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		1,951.40		30,886.59				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 9/24/54 Operator Bradley Mining Co.

Per [signature] Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

COPY

September 16, 1954

DMEA Progress Report for August, 1954

Contract Idm-E 453

Airport Area

Diamond drilling under contract Idm-E 453 was resumed in August after being recessed during the Winter season.

Hole MC-57, the third hole in the airport area, was started in August. It was collared on the southeast side of the valley and is being drilled northwesterly at an inclination of minus 50°. At the end of the month bedrock had not yet been reached; 174 feet of pipe had been driven through overburden.

BRADLEY MINING CO.

E. G. Wallace

E. G. Wallace
Assistant Manager

KGW/ja

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

August, 1954

Item 1 - Unit Costs, Diamond Drilling

Driving Pipe:

Airport Area

Hole MC-57	174 ft. at $9.00 (In excess of contract pipe driving footage)		$1,566.00

Item 2 - Labor and Supervision

Consultant	4 days at $50.00	$200.00	
Technical Services		51.92	$ 251.92

Item 3 - Operating Materials and Supplies

Miscellaneous

Core Boxes	$ 16.48

Item 7 - Miscellaneous

Accounting	$ 25.00
Total for "Other" Form MF-104A	$ 293.40

Item 6 - New Buildings, Improvements, etc.

11½ Hours Tractor Work at $8.00	$ 92.00

OCT 4 1954

Mr. A. [illegible]
Executive Officer
[illegible] Field Office, [illegible]
South 157 Howard Street
Spokane 1, Washington

Re: Docket No. [illegible] A-2[illegible]76 (Antimony)
Contract No. [illegible]
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Dear Mr. [illegible]:

Enclosed are the original and five copies of a proposed Amendment No. 3 to the captioned contract, executed by the Administrator.

If you find the operator and the proposed amendment in order, please have it executed by the latter and make the usual distribution of the carrier transmittal.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Concurred:
J. H. Hedges

Member, Bureau of Mines
Thor H. Kiilsgaard

Member, Geological Survey

MChing/ela
9-27-54
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. A. Derick, Rm. 3624
T. H. Kiilsgaard, Rm. 5227
Code 700
Mr. Ching

September 7, 1954

Memorandum

To: Acting Assistant Solicitor, Defense Minerals

From: Chief, Rare and Miscellaneous Metals Division

Subject: Proposed Amendment No. 3
Docket No. DMA 2636 (Antimony)
Contract No. Idm-1453
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho

Will you kindly have prepared Amendment No. 3 to the captioned contract along the lines of the draft attached to the Field Team's letter dated August 27, 1954.

Ernest W. Ellis, Chief
Rare and Miscellaneous
Metals Division

MChing:ep 9-7-54

Copy to: Docket
Admr's Reading File
Code 700
Mr. Ching

SEP 8 1954

[redacted]

Ching

[redacted]-Department of the Interior

[redacted](01) Revolving Fund,
Defense Production Act (Interior)
(Allocated Working Fund to the
Office of the Secretary)

A. A. [redacted],
[redacted] FIELD [redacted],
[redacted] 157 [redacted]
[redacted]

[redacted] 2036 [redacted]

[redacted]

[redacted]

George C. Selfridge
George C. Selfridge, Chairman
Operating Committee

Ching/am
Sept 3-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
E. L. Newcomb, Rm. 5227
Code 700
Mr. Ching
Confirmation to Region II

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 9-1

REFERRED TO:

1. ~~H. Berry~~
2. ~~Mr. Selfridge, Rm. 4631~~
3. Mr. Ellis, Rm. 4640
4. Mr. Ching

FOR:

..... Action	..... Recommendation
..... Approval	..... Record
..... Comment	of .....
..... Conference	..... Referring
..... Consideration	to .....
..... Filing	..... Reply for signa-
..... Instructions	ture of .....
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Attached: 1 cy FT memo; 1 cy proposed Am.#3; 2 cc ea. of Operator's ltr., Joralemon report, & map. Original set of material ret'd to M&R. Hazel

Check (X) before the items needing attention.

ROBERT E. [illegible]

Initials of sender.

GPO 16—63815-1

XXXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

August 27, 1954

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Proposed Diamond Drilling
Docket No. DMEA 2636 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-E453

Dear Mr. Selfridge:

The Bradley Mining Company has submitted a request, copies of which are attached, for an amendment to drill a diamond drill hole in the Scout Ridge area, which is located outside of claims covered by the contract.

Peter Joralemon, consulting geologist for the Bradley Mining Company, has completed a geological survey and has recommended an 800-foot hole dipping -20°, which is described in his report and illustrated by the map accompanying the Bradley Mining Company's amendment request.

Drilling on this project to date, although exploring a geologically favorable area, has not yet been successful in finding ore. At least one additional hole is contemplated in the Airport area. Joralemon's recent work indicates that the adjacent Scout Ridge area is also worth some exploratory work. On review of his maps and proposal, plus review of the general situation, the Field Team would be willing to approve the suggested drilling. No additional funds are required but the Field Team is unable to authorize the drilling as it will be done on claims not included in the contract. A suggested amendment is attached and we hope for a quick decision so that if the amendment is approved drilling can continue without interruption.

By Field Team, Region II

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

sures

SEM (2)
ckelson

SAMPLE
(From Reg. II)

Exploration Project Contract
Bradley Mining Company
Docket No. DMEA-2636

Amendment No. 3

It is agreed this _____ day of _____ between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Bradley Mining Company that Exploration Project Contract Idm-E453 (Docket No. DMEA-2636) dated November 25, 1952, as amended, is further amended, effective November 25, 1952, as follows:

1. In Article 2 of the contract add the letter "E" after the letter "D" and add "Geologic map of Scout Ridge Area" before the words "attached hereto and made a part hereof."

2. In Annex I add the following claims:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
Meadow Quartz No. 13	12	490
Meadow Quartz No. 14	12	491
Meadow Quartz No. 15	12	493
Meadow Quartz No. 16	12	494
Meadow Quartz No. 17	12	473
Meadow Quartz No. 18	12	475
Meadow Quartz No. 19	12	510
Meadow Quartz No. 20	12	509
Meadow Quartz No. 21	12	508
Meadow Quartz No. 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14, and 15, T. 16 N., R. 9 E., Boise Meridian, Valley County, Idaho.

3. In Exhibit "A" under the heading "Description of the Work" delete the word "four" in the third line of the first paragraph and substitute the word "five."

In Amendment No. 2, item 3, add "Exhibit E" after the word "Exhibit B" in lines two and four of the paragraph in quotes.

4. In Exhibit "A" under the heading "Estimated Costs of the Project" subheading "Agreed Unit Costs" add "and Scout Ridge Area" after the words "Stibnite Airport Area."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the amount of any item designated as "allowable maximum."

August 7, 1954

DMEA Field Team, Region II
Rm. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. E. Weissenborn

Re: Docket No. DMEA 2636 (Antimony)
Contract No. IDM-2 453
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho

Gentlemen:

Enclosed please find six copies of a report and map prepared by Mr. Peter Jorsalemon, consulting geologist to the Bradley Mining Co., requesting an amendment to the subject contract. The purpose of the amendment is to enlarge the Airport Area described in Amendment No. 2 to include a group of claims to the northeast of the group included in Amendment No. 2. This proposed amendment will in no way change the total estimated cost of the project.

If this amendment is approved, the following mining claims should be added to the contract:

	Book	Page
Meadow Creek No. 15	6	275
Meadow Quartz No. 10	12	488
" " " 13	12	490
" " " 14	12	491
" " " 15	12	493
" " " 16	12	494
" " " 17	12	473
" " " 18	12	475
" " " 19	12	510
" " " 20	12	509
" " " 21	12	508
" " " 27	12	476

The above claims, all unpatented, are located in Sections 10, 11, 14 and 15 in Township 18 North, Range 9 East, Boise Meridian.

We earnestly hope that if at all possible this proposed amendment be approved prior to September 1st so as not to disrupt the continuity of the diamond drilling program now in progress.

RECEIVED
AUG 11 1954
U. S. G. S.
SPOKANE, WASH.

Very truly yours

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

REQUEST FOR AMENDMENT, DOCKET No. DMEA 2636,
CONTRACT No. Idm-E 453

GENERAL

Exploration in the vicinity of the mill and airport at Stibnite has revealed the presence of a strong belt of alteration, faulting, and metalization trending northeasterly and lying along Meadow Creek valley between the Meadow Creek Mine and the junction of the valley with the East Fork of the South Fork of the Salmon River.

The results of this exploration in determining a new structure have extended the area of interest from the immediate vicinity of the airport to a strip running northeast and north along Meadow Creek and the East Fork Canyon 3000 feet north of the Meadow Creek junction. For this reason, the Bradley Mining Co. requests an amendment to Contract No. Idm-E 453 to enlarge the airport area to include as additional area mining claims Meadow Creek No. 15 and Meadow Quartz Nos. 10, 13, 14, 15, 16, 17, 18, 19, 20, 21, and 27. The location of the original claims included in the airport area and the new claims included in this amendment is shown on the accompanying index map.

A long diamond drill hole will be drilled in the immediate future in the vicinity of the airport to explore the southeast side of Meadow Creek valley. This area has been hitherto unexplored, and further drilling here will be dependent upon the results of the initial work.

The surface drilling season at Stibnite is limited to the summer and autumn months, so exploration plans should be readied in advance to allow the maximum amount of exploration work during this short season. For this reason, the Bradley Mining Co. wishes to submit this request for amendment to the present DMEA contract to be used in the event that diamond drilling in the vicinity of the southwest end of the airport should yield only negative results.

GEOLOGY

Known faults in the Stibnite district have a prominent physiographic expression. Parallelism of major valleys in the area (Meadow, Fiddle, Hennessy, Sugar, and Garnet Creeks) suggests that drainage here is largely structurally controlled. The most prominent valley in the district is the north-south section of the East Fork of the South Fork of the Salmon River, between the Yellow Pine Mine and the intersection of the East Fork with Meadow Creek.

Recent geologic mapping along this valley has indicated the presence of a strong north-trending fault zone lying in the floor of the canyon. Exploration in this area has been limited, but

occasional exposures of strongly altered monzonite and shear zones, and the presence of stibnite and some tungsten in the valley outcrops suggest that this East Fork fault has acted as a channelway for mineralizing solutions.

A series of southeasterly faults leave the East Fork valley and can be traced by strong zones of alteration for as much as a half mile away from the central canyon. One of these branches from the Meadow Creek fault at the east wall of the Yellow Pine open pit. Another forms the prominent island in the valley in the vicinity of the Cinnabar tunnel. A third forms Scout Ridge, described in more detail below.

Structurally this area may be visualized as having a central north-south spine lying in the East Fork canyon, with northeasterly faults to the west and northwesterly faults to the east to give a herringbone fault pattern.

Scout Ridge

Scout Ridge, shown on the accompanying map, is a prominent hill trending N 20° W, projecting into the East Fork valley. The ridge is underlain by quartzite into which a series of irregular monzonite bodies are intruded. The hill is surrounded on all sides by monzonite of the main intrusive mass, and the quartzite is probably a relatively shallow roof pendant lying in a down-faulted block.

The quartzite has been intensely shattered, probably as the effect of deeper seated faulting on a brittle capping. Although fractures trend in all directions, the greatest number of them strike north to N 30° W, roughly paralleling the direction of elongation of the hill. Major north to northwest faults lie along the east and west boundaries of the ridge and bring quartzite into contact with monzonite.

The quartzite throughout the area contains irregular zones or patches of limonitic fracture coatings. This is the only evidence of alteration seen in the quartzite. Patches of limonitic material also occur in the larger monzonite bodies, and the small dikes have been intensely sericitized. The entire hill gives evidence of having been soaked by altering solutions.

Irregular disseminations of stibnite occur in the quartzite along the eastern flank of the ridge and to a lesser extent on the southwestern edge. In almost every case minor monzonite dikes occur in the antimony zones. The stibnite belt trends northwesterly, but individual bodies are more podlike than elongate. Despite the heavily shattered nature of the host rock, stibnite does not occur as fracture filling veinlets but rather as irregular, coarsely crystalline masses deposited by replacement of the quartzite and monzonite. Grab samples taken from dump material at the various

pits in this area have varied from 3.32 to 59.10 [illegible]timony content.

Exposures along the northern flank of [illegible]ridge are rare, and no stibnite has been seen in this area. [illegible] limonite coatings persist north of the known stibnite area [illegible] and a zone of intense alteration of the monzonite northwest [illegible] the quartzite indicates that mineralization may be expected to persist at least as far northward as the north end of the ridge.

One shallow diamond drill hole [illegible].C. 41, was put down near the center of the known stibnite area. Detailed information on this hole is not available, as samples were bulked in 25 foot intervals. This hole passed through two zones of antimony mineralization which contained at least 0.5% Sb. The drill hole intersected the east boundary fault and penetrated 55 feet into the altered monzonite. Fresh monzonite was never hit. The generally low core recovery from this hole indicates the persistent shattered nature of the quartzite.

Future Exploration

The Scout Ridge area is known to contain stibnite in quartzite replacement bodies. It is bounded to the east and west by persistent faults which could act as ore channelways. Since quartzite is not a favorable host rock to ore in this district, it seems safe to assume that ore solutions of intensity high enough to replace quartzite could have replaced the more favorable underlying monzonite to a far greater extent. The proposed drill hole, the location of which is shown on the map and sections, is planned to explore at greater depth the quartzite and both the bounding and included monzonite. The hole is located in the area of maximum monzonite exposure on the hill in the belief that the keel of the quartzite body will be shallower here than it is farther to the south. In this locality the hole will also explore the intersection of the two branching east side faults. The hole should be long enough to adequately explore the altered monzonite east of the fault intersection.

The favorable location of this area midway between two known deposits in the district, the strong structural preparation of the rocks, the widespread alteration, and the known stibnite in the inhospitable quartzite join to make this an unusually attractive exploration venture.

Peter Joralemon

Peter Joralemon
Consulting Geologist to
Bradley Mining Co.

Encl.

COPY

August 7, 1954

DMEA Field Team, Region II
So. 157 Howard Street
Spokane 4, Washington

Attention: Mr. A. D. Weissenborn

Re: Docket No. DMEA 2636 (Antimony)
Contract No. IDM-E 453
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AUG 11 1954
U. S. G. S.
SPOKANE, WASH.

Very truly yours

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

REQUEST FOR AMENDMENT, DOCKET No. DMEA 2636,
CONTRACT No. Idm-E 453

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Peter Joralemon
Consulting Geologist to
Bradley Mining Co.

Encl.

8/4/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

July 22, 1954

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: DMEA Docket No. 2636 (antimony) Bradley Mining Company, Yellow Pine Mine, Valley County, Idaho, Contract Idm-E455

The recessed contract was discussed with Keith Wallace, assistant manager, on July 13-14, 1954. Mr. Webb Anderson, Bureau of Mines, was present during the discussion.

The Bradley Mining Company has hired Peter Joralemon as a consultant geologist to advise the company in regard to the feasibility of continuing the surface drilling. Mr. Wallace and Mr. Joralemon thought they would be through with their survey about the first of August. They will confer with Roger McConnell at that time and probably submit a diamond drilling program to the Field Team. This drilling program will probably be in the airport area.

Distribution:
DMEA (Orig. & 3)
USGS (2)
Docket
Nickelson

10/19/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.

[illegible]

[illegible]

[illegible]

Re: [illegible] -2436 Antimony
[illegible]
[illegible], Idaho
[illegible]

Dear Mr. [illegible]:

[illegible] Pearson [illegible] area within the [illegible] investigate the status of the [illegible] project.

[illegible]

[illegible]

[illegible]

Per. Ching

JUN 1 6 1954

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMEA-2636 (Antimony)
Contract No. Idm-2453
Bradley Mining Co.
Yellow Pine Mine
Valley County, Idaho

Dear Mr. Weissenborn:

A review of the captioned contract file reveals that work on this project has been in recess since October, 1953, and was to have been resumed in the Spring of 1954. It is further noted from John A. Boucher's memorandum of November 17, 1953, that the Operator intended to evaluate the work accomplished and, if possible, meet with the Field Team in Seattle during the recess period.

We would appreciate being advised the status of this project.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

D. M. Larrabee

Member, Geological Survey

MChing/am
6-11-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3624
B. Gildersleeve, Rm. E-242-A, GSA
M. Ching
Code 700

Form M-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $53,000.00 Government Participation: 75 % Amount, $39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted]t Short Form Contracts:						
Drilling	3,424.66	19,260.06	22,684.72			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor Consultant	115.00	805.00	920.00			
Supervision						
Technical Services	100.00	700.00	800.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	10.13	210.42	220.55			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		481.06	481.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	80.50	1,123.25	1,203.75			
Payroll Taxes						
Liability Insurance						
Accounting	50.00	350.00	400.00			
(8) Contingencies (specify):						
Preparatory Work		1,923.17	1,923.17			
TOTALS	3,780.29	25,154.90	28,935.19	3780.29	25154.90	28,935.19

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 12/29/53 *Payee BRADLEY MINING CO.

Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$2835.22

Signature [signature]
(Authorized Certifying Officer)

Date 1/8/54 Vou. No. 1037
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /S/ John A Bowsher Title Mining Eng Date Jan 5 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Eng Date Jan 6-1954

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 2636 Contract No. Idm-[illegible]

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
~~Drifting~~ Airport	1 ft.	2965.71	627	6,035.48	1276	4.73	3000	4.73
~~Construction~~ SE of Pit	1 ft.			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessey Cr.	1 ft.			2,988.60	586	5.10	500	5.10
~~Sinking~~ North Tunnel	1 ft.			3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stripping~~ Driving Pipe	1 ft.	27.00	3	2,439.00	271	9.00	215	9.00
~~Trenching~~ Ream & Case	1 ft.	431.95	163	1,489.30	562	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		355.63		3,846.24				
TOTAL DISTRIBUTED COSTS		3780.29		26,530.96				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				481.06				1,280.00
Contingencies				1,923.17				3,038.00
TOTAL COSTS		3780.29		28,935.19				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 12/29/53 Operator Bradley Mining Co.

Per G. Olston Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

October, 1953

Item 1 - Unit Costs, Diamond Drilling			
Drilling:			
Airport Area			
Hole MC-56	627 ft. at $4.73		$2,965.71
Driving Pipe:			
Hole MC-56	3 ft. at $9.00 (In excess of footage specified in contract)		27.00
Reaming:			
Hole MC-56	163 ft. at $2.65		431.95
			$3,424.66
Item 2 - Labor and Supervision			
Consultant		$115.00	
Technical Services		100.00	
			$ 215.00
Item 3 - Operating Materials and Supplies			
Misc.			
Core Boxes			$ 10.13
Item 7 - Miscellaneous			
Analytical Work			
34	Antimony Assays at $1.50	$ 51.00	
34	Gold Assays at $0.75	25.50	
2	Tungsten Assays at $2.00	4.00	
			$ 80.50
Accounting			50.00
Total for "Other" Form MF-104A			$ 355.63

December 12, 1953

DMEA Progress Report for October, 1953

Contract Idm-E 453

Progress

Airport Area. Diamond drill hole MC-56, drilled 118 feet in September, was completed to a length of 748 feet in October. Bedrock was entered at a depth of 121 feet.

This was the final hole to be drilled under contract Idm-E 453 for the 1953 season. Diamond drilling will be recessed until the summer season of 1954.

Geology

Airport Area. Hole MC-56 was very similar to the first hole drilled in the airport area (hole MC-55) in respect to both the character of the rock and the assay results.

Several areas of altered granite were cut, all having some gold mineralization and minor amounts of antimony. The highest assays were 0.095 oz/ton gold and 0.12% antimony. Traces of tungsten were occasionally found in the sludge samples.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
Defense Minerals Administration
JAN 18 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Short Form Contracts:						
Drilling	3,955.37	15,304.69	19,260.06			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
[redacted] Consultant	115.00	690.00	805.00			
Supervision						
Technical Services	100.00	600.00	700.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	48.45	161.97	210.42			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation		301.94	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		481.06	481.06			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	80.75	1,042.50	1,123.25			
Payroll Taxes						
Liability Insurance						
Accounting	50.00	300.00	350.00			
(8) Contingencies (specify):						
Preparatory Work	509.82	1,413.35	1,923.17			
TOTALS	4,859.39	20,295.51	25,154.90	4859.39	20,295.51	25,154.90

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 12/29/53 *Payee Bradley Mining Co.
Per [signature] Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Totals adjusted for deletions made from July and August reports

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3,644 54

Signature [signature]
(Authorized Certifying Officer)

Date 1/8/54 Vou. No. 1037
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. F-453 in accordance with the terms of the contract.

Signature /s/ John a Bowsher Title Mining Engr Date Jan 5-1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E Howard Title Mining Engr Date Jan 6-53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1953 Docket No. DMEA 2636 Contract No. Idm-E 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drilling:								
Airport	1 ft.	2620.42	554	3,069.77	649	4.73	3000	4.73
SE of Pit	1 ft.			5,833.24	1162	5.02	1500	5.02
Hennessey Creek	1 ft.			2,988.60	586	5.10	500	5.10
North Tunnel	1 ft.			3,899.10	951	4.10	1500	4.10
Drilling: Core								
Churn								
Auger								
Driving Pipe	1 ft.	1062.00	118	2,412.00	268	9.00	215	9.00
Ream & Case	1 ft.	272.95	103	1,057.35	399	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		394.20		3,490.61				
TOTAL DISTRIBUTED COSTS		4349.57		22,750.67				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				481.06				1,280.00
Contingencies		509.82		1,923.17				3,038.00
TOTAL COSTS		4859.39		25,154.90				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 12/29/53 Operator BRADLEY MINING CO.

Per [signature] Title Assistant Secretary

REMARKS: Totals adjusted for deletions made from July and August reports.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

December 2, 1953

DMEA Progress Report for September, 1953

Contract Idm-E 453

Progress

Airport Area. Diamond drill hole MC-55, drilled 195 feet in August, was completed to a length of 749 feet in September. It was drilled southeast of an inclination of minus 50 degrees.

Hole MC-56 was collared at the northeast corner of the store, and is being drilled southeasterly at an inclination of minus 50 degrees. At the end of the month bedrock had not yet been reached; 118 feet of pipe had been driven through overburden.

Geology

Airport Area. Hole MC-55, while not finding rock of commercial grade, did reveal rather extensive sections of low-grade gold mineralization in a previously untested area. The zones of altered granite invariably assayed some gold and minor antimony. Gold values were as follows: from 180 to 195 feet, 0.040 oz/ton; from 250 to 315 feet, 0.030 oz/ton; from 315 to 325 feet, 0.125 oz/ton; from 325 to 375 feet, 0.030 oz/ton; from 525 to 550 feet, 0.040 oz/ton; from 600 to 650 feet, 0.045 oz/ton. Occasional traces of scheelite were found, both in bedrock and in the overburden.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-N 453

September, 1953

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport Area

Hole MC-55	554 ft. at $4.73		$2,620.42

Driving Pipe:

Hole MC-56	118 ft. at $9.00 (53 ft. in excess of footage specified in contract. Result of shifting drilling from CDH area to Airport Area)		1,062.00

Reaming:

Hole MC-55	103 ft. at $2.65		272.95
			$3,955.37

Item 2 - Labor and Supervision

Consultant	$115.00	
Technical Services	100.00	
		$ 215.00

Item 3 - Operating Materials and Supplies

Misc.

Core Boxes		$ 48.45

Item 7 - Miscellaneous

Analytical Work

35 Antimony Assays at $1.50	$ 52.50	
35 Gold Assays at $0.75	26.25	
1 Tungsten Assay at $2.00	2.00	
		$ 80.75

Accounting	50.00
Total for "Other" Form MF-104A	$ 394.20

Item 8 - Contingencies

We resubmit $509.82 deleted from the July MF-104 for preparatory work in the North Tunnel.

The work done in the North Tunnel was essential to the performance of the diamond drilling specified in the contract for the North Tunnel area -- drilling was not possible until this work had been done. The tunnel was reopened by the Bradley Mining Co. in February, 1951. Since then, however, sections of the tunnel in the Meadow Creek fault zone caved, necessitating the rather extensive clean up work and timbering reported in our monthly reports for June and July.

We refer to Article 6, paragraph 8, of the contract: "Contingencies - Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A"....." We believe the preparatory work in the North Tunnel should be included under the contract definition of contingencies.

The amount charged in the July MF-104 was the actual labor and compensation insurance cost of the preparatory work for the month, exclusive of supplies and materials. The following employees performed this work:

Hourly-paid Employees

Clifford W. Bale, Underground Miner	40	hrs.
Dale W. Barkell, " "	40	"
Harold Longacre, " "	91½	"
Harry J. Washington, " "	8	"
Clifford J. Ross, Timber Framer	40½	"
Benjamin Payne, Sr., First Machinist	15	"

Supervisory Employees

George R. Hansen, Equipment Supt.	4	hrs.
Melvyn E. Manning, Dia. Drill Foreman	4	"
Lawrence E. Smith, Maint. Shift Supv.	4	"
Total	247	hrs.

Labor - 247 hours	$491.09	
Compensation Insurance	18.73	
		$ 509.82

12/17/53-tb.
12/18/53-gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
November 17, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim inspection, Docket No. DMEA 2636 (antimony), Bradley Mining Co., Yellow Pine Mine, Valley County, Idaho Contract Idm-E453

This interim inspection was made Saturday, November 7, 1953. The previous inspection was made September 29 through October 1, 1953 by the writer and Howard B. Nickelson, Geologist, U. S. Geological Survey.

The activity on this project has been recessed since the second diamond drill hole in the Airport Area, DMA-MC56, was bottomed at 748 feet in October. The total contract units completed are 3975 feet of diamond drilling (sch. 6500) excluding pipe driving. The previous totals reported were total length of hole, collar to bottom, which included pipe driving through overburden. The total length of holes, collar to bottom is now 4246 feet, including approximately 271 feet of pipe driving. The vouchers for July and August were received and approved, with deletions. The unexpended funds to September 1, after deletions, were $32,704.49. The correct termination date (previously reported erroneously) is November 25, 1954.

The project consists of surface diamond drilling and the company intends to recess the activities from now to Spring 1954 because of adverse weather conditions. The exploration to date will be evaluated by the Operator, and it is possible that representatives of the Operator will meet with the Field Team in Spokane during the project recess.

Deletions from the Operator's vouchers were discussed with Keith Wallace, Asst. Mgr., and he was advised that more supporting detail of charges should be submitted.

The progress during the interim was 635 feet of core drilling in DDH No. DMA-MC56, Airport Area. The hole is the second one and the core indicates that the geology is very similar to that of the first

hole, the same type of low-gold mineralization. No indication of the objective, - location of lesser faults cutting the main Meadow Creek fault. The log of the hole will be submitted later.

Orig. & 3 cys - Wash.
USGS (2)
DMRA
M/D
AD
JAB/he

John A. Bowsher

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

RECEIVED
NOV 23 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1953 · Docket No. DMEA 2636 · Contract No. Idm-E 453
Operator's Name Bradley Mining Co. · Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 · Government Participation: 75 % · Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	6,773.20	8,531.49	15,304.69			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
~~Labor~~ Consultant	230.00	460.00	690.00			
Supervision						
Technical Services	200.00	400.00	600.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	60.53	269.09	329.62	23.47	138.50	161.97
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	121.94	180.00	301.94			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	41.00	423.65	464.65	57.41	423.65	481.06
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	312.75	729.75	1,042.50			
Payroll Taxes						
Liability Insurance						
Accounting	100.00	200.00	300.00			
(8) Contingencies (specify):						
~~Preparatory Work~~	21.88	1,923.17	1,945.05	-0-	1413.35	1413.35
TOTALS	7,861.30	13,117.15	20,978.45	781.87	12,476.74	20295.51

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10/26/53 *Payee Bradley Mining Co.

Per G C Orton Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5864 08

Signature [illegible]
(Authorized Certifying Officer)

Date 11/16/53 Vou. No. 967
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ John A. Bowsher Title Mining Engr Date 10/20/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Engr Date 11/3/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53

Defense Minerals Administration
RECEIVED
NOV 23 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
~~Drifting~~ Airport	1 ft.	449.35	95	449.35	95	4.73	3000	4.73
~~Connection~~ SE of Pit	1 ft.			5,833.24	1162	5.02	1500	5.02
~~Raising~~ Hennessey Cr.	1 ft.	2,988.60	586	2,988.60	586	5.10	500	5.10
~~Shaft~~ North Tunnel	1 ft.	1,701.50	415	3,899.10	951	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Driving Pipe	1 ft.	1,170.00	130	1,350.00	150	9.00	215	9.00
~~Trucking~~ Ream & Case	1 ft.	463.75	175	784.40	296	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		1,025.22		3,264.06				
TOTAL DISTRIBUTED COSTS		7,798.42		18,568.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		41.00		464.65				1,280.00
Contingencies		21.88		1,945.05				3,038.00
TOTAL COSTS		7,861.30		20,978.45				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 10/24/53 Operator Bradley Mining Co.

Per G. Olston Title Assistant Secretary

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

September 17, 1953

DMEA Progress Report for August, 1953

Contract Idm-E 453

Progress

Hennessey Creek Area

Hole B-220. Hole started in July, finished this month. Pipe was driven through overburden from 20 to 35 feet, bedrock was entered at 35 feet and the hole was drilled to a total length from the collar of 278 feet. ~~The log is enclosed with this report.~~

Hole B-221. Drilled south 63° west from same location as hole B-220. Inclination: minus 60°. Pipe was driven through 15 feet of overburden and the hole was then drilled to a total length of 358 feet. ~~Log is enclosed.~~

Airport Area

Hole MC-55. As authorized by contract amendment No. 2, drilling was started in the vicinity of the Stibnite airport during August. Hole MC-55 was collared about 400 feet northeast of the Stibnite store, and is being drilled south 47° east at an inclination of minus 50°. Pipe was driven 100 feet through overburden to bedrock and the hole was drilled an additional 95 feet, making the total length of the hole 195 feet at the end of the month. The hole is planned for a length of 750 feet and will be completed in September. The log will be enclosed in the monthly report for September.

North Tunnel Area

Hole FC-2. Hole drilled 60 feet in July, finished to length of 475 feet in August. ~~Log is enclosed with this report.~~

Geology

Hennessey Creek Area

The second and final hole in the Hennessey Creek Area was unsuccessful in locating the zone of intersection between the west branch of the Meadow Creek Fault and the "L" Fault. Some areas of altered granite were found, but for most of its length the hole was in fresh granite with only very minor antimony-gold values.

North Tunnel Area

Hole FG-2, drilled northwest from the North Tunnel, was supposed to cut the Meadow Creek Fault near its intersection with the Fiddle Creek Fault, based on the assumption that the Meadow Creek Fault lies west of the North Tunnel. This premise is almost certainly disproved by the results of the drill hole; the hole was in essentially unaltered rock for its entire length, with only traces of antimony and gold present.

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Note: Diamond drill logs not completed in time to be included with this report. Logs will be forwarded at a later date.

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

AUGUST, 1953

Item 1 - Unit Costs, Diamond Drilling

Drilling:

Airport Area				
Hole MC-55	95 ft. @ $4.73			$ 449.35
Hennessey Creek Area				
Hole B-220	243 ft. @ $5.10	$1,239.30		
Hole B-221	343 ft. @ $5.10	1,749.30		
	586 ft.			2,988.60
North Tunnel Area				
Hole FC-2	415 ft. @ $4.10			1,701.50

Driving Pipe:

Hole MC-55	100 ft. @ $9.00	$ 900.00	
Hole B-220	15 ft. @ $9.00	135.00	
Hole B-221	15 ft. @ $9.00	135.00	
	130 ft.		1,170.00

Reaming:

Hole MC-55	95 ft. @ $2.65	$ 251.75	
Hole FC- 2	80 ft. @ $2.65	212.00	
	175 ft.		463.75
			$6,773.20

Item 2 - Labor & Supervision

Consultant	$230.00	
Technical Services	200.00	$ 430.00

Item 3 - Operating Materials & Supplies

Misc.: Core Boxes	23.47	
Fuel Oil, Motor Oil for compressor and pump - North Tunnel	37.06	60.53

Item 4 - Operating Equipment

Depreciation: Compressor (21/31 month)		121.94

Item 7 - Miscellaneous

Analytical Work

139 Antimony Assays @ $1.50	$208.50	
139 Gold Assays @ $0.75	104.25	312.75
Accounting		100.00
Total for "Other" Form MF-104A		$1,025.22

Item 6 - New Buildings & Equipment

Water pipe and fittings	$ 41.00

Item 8 - Contingencies

North Tunnel - repairing water pump

Labor - 2 Hours	$ 5.28	
Compensation Insurance	.19	

Airport Area - installing water pipe

Labor - 6 Hours	15.85	
Compensation Insurance	.56	$ 21.88

Form MF-104 (Rev.)
(April 1952)

11/25/53-db

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED

Month of July, 1953 Docket No. DMEA 2636 Contract No. 1956-E 453

Operator's Name Bradley Mining Co. Minerals Antimony

Address Stibnite, Idaho

Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	6,470.32	2,061.17	8,531.49			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
~~xxxxxxx~~ Consultant	230.00	230.00	460.00			
Technical Services	200.00	200.00	400.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Misc.	249.34	19.75	269.09	118.75	19.75	138.50
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	180.00	~~xxxxx~~	180.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	56.00	367.65	423.65			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	585.00	144.75	729.75			
Payroll Taxes						
Liability Insurance						
Accounting	100.00	100.00	200.00			
(8) Contingencies (specify):						
Preparatory work	509.82	1,413.35	1,923.17	-0-	1413.35	1413.35
TOTALS	8,580.48	4,536.67	13,117.15	7940.07	4536.67	12,476.74

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10/19/53 *Payee Bradley Mining Co.

Per G. Orton Title Assistant Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5955.05

Signature [illegible] (Authorized Certifying Officer)

Date 11/16/53 Vou. No. 967 (See other side)

Note: Above totals corrected for deletion of $330.00 made in June, 1953.

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E453 in accordance with the terms of the contract.

Signature /S/ John A Bowsher Title Mining Engr Date 10/29/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date 10/29/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drilling:								
Drifting Airport	1 ft.						3000	4.73
Crosscutting SE of pit	1 ft.	3,970.82	791	5,833.24	1162	5.02	1500	5.02
Raising Hennessey Cr.	1 ft.						500	5.10
Shafts North Tunnel	1 ft.	2,197.60	536	2,197.60	536	4.10	1500	4.10
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping Driving Pipe	1 ft.	180.00	20	180.00	20	9.00	215	9.00
Trenching Ream and Case	"	121.90	46	320.65	121	2.65	3850	2.65
Test Pits								
Roads and Trails								
Other		1,544.34		2,238.84				
TOTAL DISTRIBUTED COSTS		8,014.66		10,770.33				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		56.00		423.65				1,280.00
Contingencies		509.82		1,923.17				3,038.00
TOTAL COSTS		8,580.48		13,117.15				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 10/19/53 Operator Bradley Mining Co.

Per L. C. Watson Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

September 14, 1953

DMEA Progress Report for July, 1953

Contract Idm-S 453

Progress

Southeast of Pit Area

Hole B-218. Drilled south 25° east from the partial bench at the extreme south end of the Yellow Pine open pit. Inclination: minus 10°. Length: 500 feet. ~~Log is enclosed with this report.~~

Hole B-219. Drilled south 85° east from the same location as Hole B-218. Inclination: minus 10°. Length: 291 feet. ~~Log is enclosed.~~

Hennessey Creek Area

Hole B-220. Hole started on last day of the month; drove 20 ft. of pipe through overburden in July. Hole drilled nearly due south at minus 60° inclination, from the north slope of Hennessey Creek (west of the Yellow Pine open pit). Log will be included in the monthly report for August.

North Tunnel Area

Hole FC-1. Flat hole collared underground at the face of the east crosscut in the North Tunnel. Drilled south 62° east; length 476 feet. ~~Log is enclosed.~~

Hole FC-2. Hole collared underground at the face of the west crosscut in the North Tunnel. Bearing north 53° west, inclination minus 18°. Drilled 60 ft. in July; drilling continued in August. Log will be included in the monthly report for August.

Geology

Southeast of Pit Area

Drilling in the area southeast of the Yellow Pine pit was stopped after completing the third hole. Results were rather disappointing in that only one comparatively narrow zone of antimony ore was found. This zone, 15 feet wide (from 70 to 85 feet in Hole B-218) averaged 2.10% antimony. All three holes cut wide areas of alteration and brecciation, with accompanying very low grade antimony-gold mineralization, but other than the above mentioned antimony zone no values of particular interest were found.

Hennessey Creek Area

The first hole in the Hennessey Creek area encountered the usual very low grade antimony-gold mineralization, but no rock of commercial value was found. The drilling in this area is designed to test the intersection of the west branch of the Meadow Creek fault with the "L" fault for possible ore occurrences. Neither structure was recognized in the drill cores.

North Tunnel Area

The first hole drilled from the North Tunnel disclosed low antimony-gold values throughout most of its length. The highest assays were 0.29 per cent antimony and 0.050 ounces gold per ton. Wide zones of intensive alteration were found in the first part of the hole.

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

Note: Diamond drill logs not completed in time to be included with this report. Logs will be forwarded at a later date.

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

JULY, 1953

Item 1 - Unit Costs, Diamond Drilling

Drilling

Southeast of Pit Area

Hole B-218	500 ft. @ $5.02	$2,510.00		
Hole B-219	291 ft. @ $5.02	1,460.82		
	791 ft.			$3,970.82

North Tunnel Area

Hole FC-1	476 ft. @ $4.10	$1,951.60		
Hole FC-2	60 ft. @ $4.10	246.00		
	536 ft.			2,197.60

Driving Pipe:

Hole B-220	20 ft. @ $9.00			180.00

Reaming:

Hole B-219	46 ft. @ $2.65			121.90
				$6,470.32

Item 2 - Labor & Supervision

Consultant		$230.00	
Technical Services		200.00	$430.00

Item 3 - Operating Materials & Supplies

Misc.:	Core Boxes	$118.75	
	Fuel Oil, Motor Oil for compressor and pump - North Tunnel	130.59	249.34

Item 4 - Operating Equipment & Supplies

Depreciation:	Compressor (one month)		180.00

Item 7 - Miscellaneous

Analytical Work

260 Antimony Assays @ $1.50		$390.00	
260 Gold Assays @ $0.75		195.00	585.00

Accounting		100.00
Total for "Other" Form MP-104A		$1,544.34

Item 6 - New Buildings, Improvements, etc.		
7 Hours Tractor Work @ $8.00		$ 56.00
Item 8 - Contingencies:		
North Tunnel - repairing tunnel, cutting underground diamond drill stations		
Labor - 247 hours	$491.09	
Compensation Insurance	18.73	$509.82

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

October 19, 1953

Memorandum

To: DMEA Field Team, Region II

From: Howard E. Nicholson, Geologist, U. S. Geological Survey and John Bowsher, Mining Engineer, U. S. Bureau of Mines

Subject: Docket No. DMEA 2636 (antimony), routine inspection, Bradley Mining Company, Yellow Pine mine, Valley County, Idaho, Contract Idm-2453

The property was visited on September 29 through October 1, 1953, by Nicholson and on October 1 and 2 by Bowsher. Mr. Keith Wallace accompanied the inspection team.

Airport area

The first hole, MC-55, has been completed to a depth of 750 feet. The second hole, MC-56, has been drilled to a depth of 113 feet--all in overburden. The coordinates of DDH MC-55 are: N. 19,952.08, E. 20,419.44; elevation, 6,546.47; bearing, S. 47° 21'30" E.; inclination, -50°. Hole MC-56 has not been surveyed.

The total contract units completed are 3,612 feet of diamond drilling (sch. 6500). The advance during the interim, since the previous inspection on September 1, 1953, was 64 feet of diamond drilling. The operator has not submitted monthly vouchers for July and August and he has been informed to do so without delay; the vouchers had been withheld because the logging of the holes was not completed. Unexpended funds to July 1 were $48,463.33. The termination date is January 25, 1954.

The contract terms call for only 215 feet of pipe driving from the surface which was probably adequate under the setup while the C.D.H. group was considered. Transferring to the Airport area the pipe driving is now 100 feet on MC-55 and 113 feet on MC-56; bedrock is not yet encountered.

Log and Assays of MC-55

Feet	
0-63'	Overburden
63-179'	Granite and aplite.

Feet

179-199' Crushed granite with sulphides. Five-foot samples of the sludge ranged 0.03 to 0.045 percent Au; 0.06 to 0.14 percent Sb.

199-275' Granite and aplite with occasional crushed zone with minor sulphides. A composite sample 250-275'; 0.03 percent Au, 0.14 percent Sb.

275-281' Granite, sulphides along fracture planes and in minor crushed area.

281-303' Granite and aplite with some sulphide along occasional crushed and fractured zone. Composite sample 275-300'; 0.03 percent Au, 0.06 percent Sb.

303-321' Granite with sulphide along fracture and in crushed area. 305-310', 0.03 percent Au, 0.13 percent Sb; 310-315', 0.03 percent Au, 0.12 percent Sb; 315-320', 0.115 percent Au, 0.17 percent Sb; 320-325', 0.135 percent Au, 0.06 percent Au; 325-330', 0.05 percent Au, 0.12 percent Sb.

321-360' Crushed granite, low core recovery, sulphides present. 330-335', 0.04 percent Au, 0.03 percent Sb; 335-340', 0.035 percent Au, 0.08 percent Sb; 340-345', 0.015 percent Au, 0.16 percent Sb; 345-350', 0.015 percent Au, 0.12 percent Sb; 350-360', 0.035 percent Au, 0.05 percent Sb.

360-516' Granite and aplite. Assays in this area: 0.04 percent Au to 0.005 percent Au; 0.07 to 0.04 percent Sb.

516-790' Granite and aplite. Assays are all low, 0.01 to 0.05 percent Au and 0.04 to 0.08 percent Sb.

The hole has encountered structure but the results of the assay on sludges show no economic ore bodies.

The Airport drilling program will be discontinued as soon as hole HC-56 is drilled to the anticipated depth of 750 feet which will allow the operator to compile and evaluate geological results obtained to date in order to plan future drilling.

The surface drilling will be resumed next spring when the weather permits.

Distribution:
DMEA (Orig. & 3)
UMM (2)
Dechert
Nicholson

xxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

October 18, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2638 (antimony)
Bradley Mining Company
Yellow Pine Mine
Valley County, Idaho
Contract No. Idm-2453

Dear Mr. Selfridge:

Enclosed are the original and two signed copies of Amendment No. 3 to the above-cited contract.

Distribution of this amendment is being made in the usual manner.

Sincerely yours,

[illegible] E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: Finance Office w/encl.
USBM (2)
Puffett

700
M81

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED

1201 N. Division St.
Spokane 2, Washington
September 16, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, DMEA Docket No. 2636 (antimony)
Bradley Mining Co., Yellow Pine Mine, Valley County, Idaho
Contract Idm-M453

This interim inspection was made Tuesday, September 1, 1953, in the company of Abdul Saleem, Assistant Engineer-Geologist. The previous inspection had been made by V. Z. Johnson, Mining Engineer, Bureau of Mines, Saturday, July 25, 1953.

The total contract units completed are 2968 feet of diamond drilling (sch. 6500). The advance during the interim was 1596 feet. The Operator's voucher for June 1953 was approved for payment, but not as submitted. The unexpended funds are $48,463.33 and the termination date is January 25, 1954.

Southeast Pit Area

DDH No. DMA-B219, advanced 121 feet and bottomed in altered granite at 291 feet total depth.

All drilling equipment and conveniences removed from the site.

Hennessey Creek Area

DDH No. DMA-B220, collared, and bottomed in fresh granite at 278 feet total depth. The core indicated slight mineralization in the brecciated zones. All sludge (5 feet interval) assayed no better than a trace in gold and the antimony averaged about 0.02 percent (highest 0.04%).

DDH No. DMA-B221, collared, and bottomed in fresh granite at 358 feet total depth. The core was characteristically much like B220 and the sludge assays were about the same.

All drilling equipment and conveniences removed from the site.

North Tunnel Area (underground drill sites)

DDH No. DMA-FC1, advanced 145 feet and bottomed in fresh granite at a total depth of 476 feet. A zone of altered granite, 300-360 feet, showed very slight mineralization. Assay results of the sludge were: gold 0.005 - 0.01 oz, antimony average about 0.05 percent, and WO_3 none.

DDH No. DMA-FC2, collared, and bottomed at 475 feet in fresh granite. The core was predominantly fresh granite with very little mineralization. Sludge assays ran no higher than a trace of gold, and the antimony varied from 0.01-0.04 percent. The core section from 20-30 feet when lamped indicated scheelite, a trace.

All drilling equipment and conveniences removed from underground.

Stibnite Airport Area

The first drill hole, DDH No. DMA-MC55, was collared and advanced to a depth of 219 feet. Ninety feet of pipe was driven through the glacial overburden in preparation of coring. The core for the first 219 feet was mainly fresh granite, except for one section, 180-190 feet, which showed some alteration with accompanying slight sulfide mineralization. The core exhibited no indications of scheelite when lamped.

Orig. & 3 cys - Wash.
USGS (2)
DMRA
M/D
AD
JAB/he

John A. Bowsher

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
1201 N. Division St.
Spokane 2, Washington

Defense Minerals Administration
RECEIVED
OCT 8 1953

September 14, 1953

Memorandum

To: DMEA Field Team, Region II

From: N. N. Appling, Mining Engineer, Bureau of Mines

Subject: Routine inspection, Bonanza Oil and Mine Corporation, Douglas County, Oregon, Contract Idm-E510, Docket No. DMEA 2920 (mercury)

A routine inspection of the Bonanza mine was made on ~~August~~ September 8 and 9, 1953. Mr. Burt Avery, Mine Superintendent, was present during the inspection, and conducted the inspecting engineer through the DMEA workings and adjacent parts of the mine.

The 830 south drift was advanced 230.9 feet during the period. The average drift cross section has been maintained at 6.5 by 7.5 feet. Timbering has not been necessary. USBM marker tags were installed at six of the eleven survey points before the available supply of tags was consumed. Tags will be placed at the remaining stations during the next inspection.

Drilling time was increased somewhat by a sandstone of greater than average hardness which was encountered in the footwall near station 813. The drift bearing was shifted 30 degrees to the east to expose more of the softer hanging wall. A six foot crosscut was first driven into the hanging wall to determine the width of the vein material and to check on the advisability of angling the drift further into the hanging wall. Auger steel is used in drilling in the hanging wall; 7/8 inch hexagonal steel with 1-1/4 inch tungsten carbide insert bits is used in the harder footwall sandstone.

Weak and spotted mineralization was noted from a point 24 feet south of station 811 to a point 42 feet south of station 812. No cinnabar was noted south of the latter point. The Operator is considering requesting a change in the contract if ore is not encountered in the next 25 to 30 feet. The proposed change will be the subject of a separate memorandum.

Drifting was started on the 1050 level early in August. The north drift was advanced 102.4 feet during the period, or a total of

107.9 feet under the DMEA contract. the 1050 south drift was advanced 47.1 feet during the period. No timbering has been necessary.

The 1050 level north and south drifts are advanced by contract labor consisting of a miner, mucker, skip tender, and hoist man, working one shift six days per week. Activity is centered primarily on the north drift at the present time, with advance in the south drift in the nature of fill-in work. An 18-hole round is drilled using a Sullivan H-22 drill with an Ingersoll-Rand air leg. Giant Gelodyn blasting powder, 45% strength, is used with fuse and caps. Average drift cross section is 6.5 by 7.5 feet. Twenty pound rail is laid with twenty-four inch gauge and a grade of one inch in ten feet.

A 15 cu. ft. end dump mine car is loaded by an Eimco 12-B machine loader. Ore and waste is hand trammed to the 40 Winze where it is loaded into a skip and hoisted to the 830 level. It is then re-loaded into cars, hand trammed to the 19 Winze, hoisted to the 370 level, and trammed to the surface by battery operated tram. Ore and waste bins, automatic dumping devices and draw chutes are provided at the 40 Winze and 19 Winze on the three levels. Grab samples are taken of each car before the load is hoisted to the 830 level. Rock drill cuttings from each round are panned as a check.

Cinnabar was noted in a few places in the 1050 south drift, but no commercial ore was observed.

Cinnabar is exposed in the 1050 level north drift from station BM 311, north to the face. The vein varies in width from six inches to three feet, with an apparent average of about two feet. The weighted average of the Operator's car samples from the initial point of DMEA work for a distance of 85 feet is 2.4 pounds mercury per ton. Good cinnabar was noted from station BM 312, north to the face (9/18/53). The next round, however, showed a marked decrease in value. A check sample (RMA 8-22) was taken, corresponding to Operator's sample #6452, location 160 to 164 feet north of station 1001.

	Completed this period	Total Completed	Contract Amount
Dewater #40 Winze		completed	
Rehab. #40 Winze		completed	
830 level south drift	230.9	695.8	800
830 level crosscut	6.0	6.0	100
1050 level north drift	102.4	107.9	400
1050 level south drift	47.1	47.1	300
1050 level crosscut	0	0	200

R. N. Appling

Orig. & 3 cys - Wash.
USGS (2), DMEA, Md
RNA/kt

Date September 17, 1953

Engineer Mr. Murphy

DMEA- 2636 Bradley Mining Co.
Idm-E 453

Attached is Amendment No. 2, dated August 21, 1953

to the above contract to be reviewed.

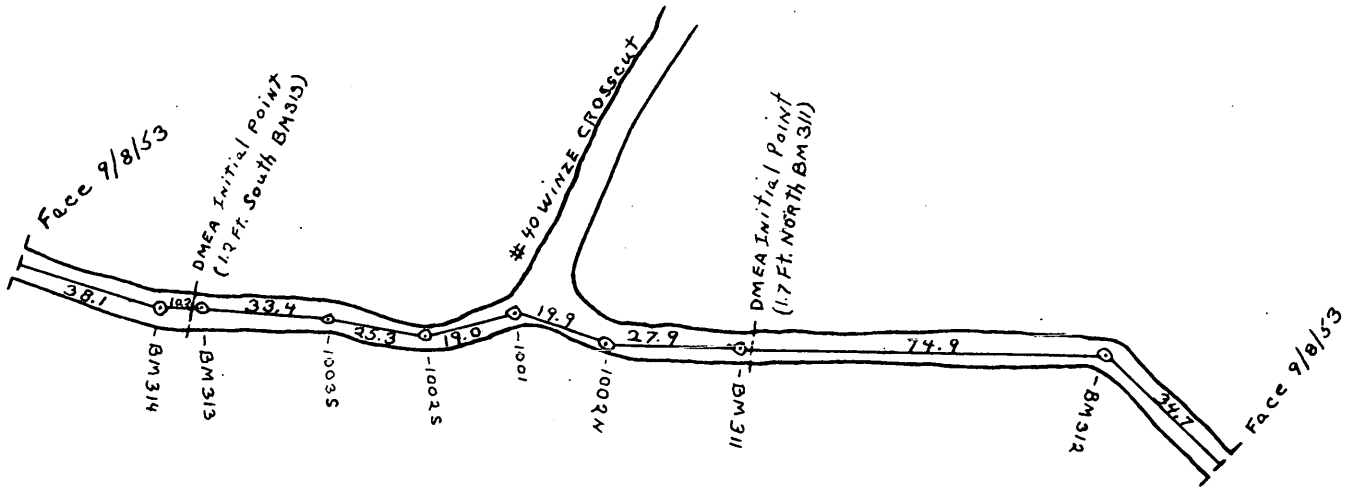
Approval Murphy

Other Action

Amendment prepared in Washington, signed by Mr. Mittendorf, has now been signed by Operator and dated in the Region.

Please return this slip to me for my records.

Mrs. Ault



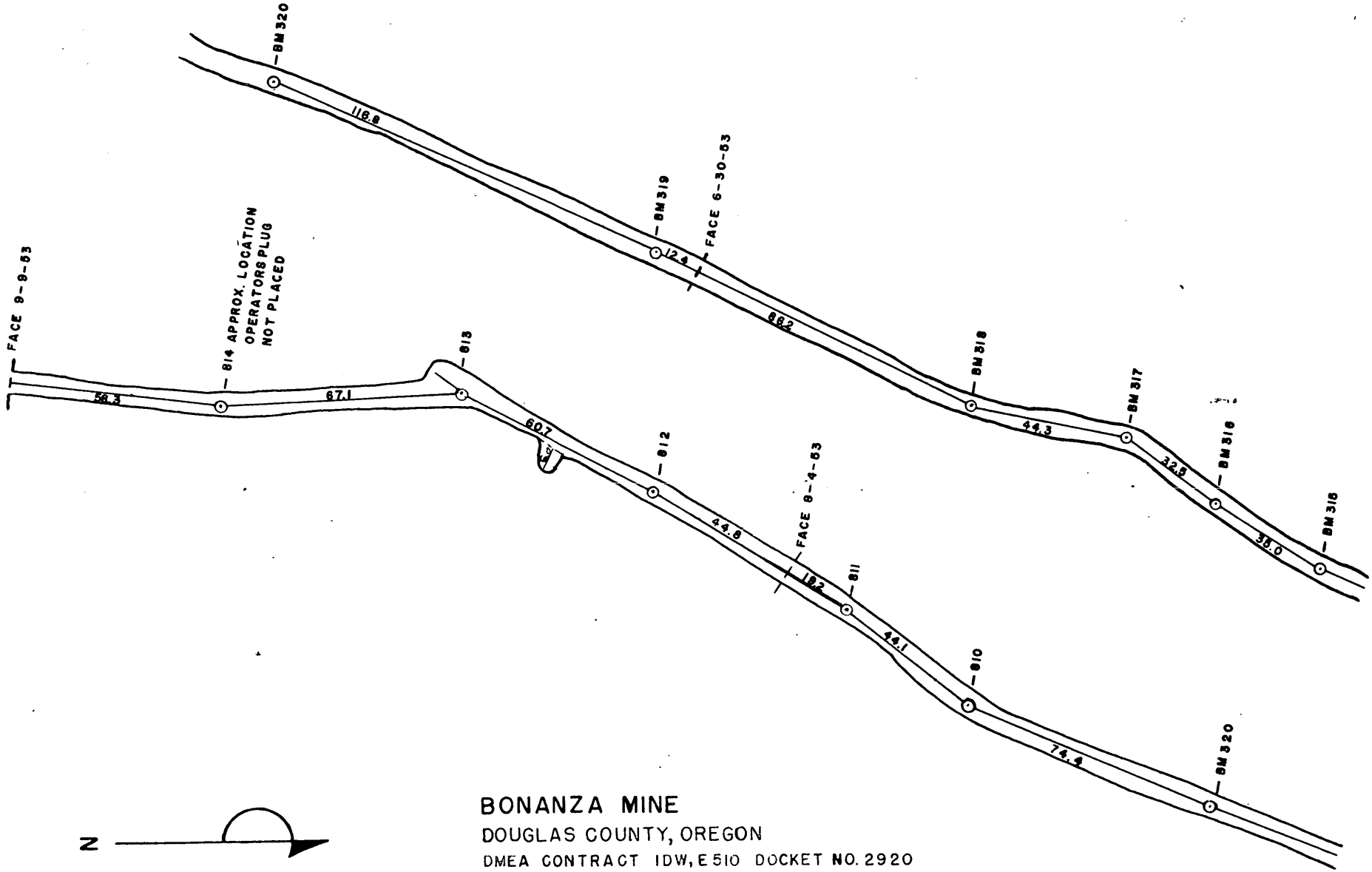
BONANZA MINE

DOUGLAS COUNTY, OREGON

DMEA CONTRACT IDW, E510 DOCKET NO. 2920

SCALE 1" = 40 FEET

R.N. APPLING 9-14-53



BONANZA MINE

DOUGLAS COUNTY, OREGON

DMEA CONTRACT IDW, E510 DOCKET NO. 2920

SCALE 1" = 40 FEET

R.N. APPLING USBM 9-12-53

9/30/53 gbe

800

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SEP 2 5 1953

Mr. Robert M. Hull
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Bradley Mining Company
Idm-E453, DMEA-2636
Yellow Pine Mine

Dear Mr. Hull:

This office has received a copy of a letter written to Mr. K. G. Wallace, Assistant Manager, Bradley Mining Company, under the names of Messrs. Kiilsgaard and Howard, acting as Field Team Members in regard to the above-cited project. The first paragraph of this letter reads as follows:

> "We note that Amendment No. 2, dated August 21, 1953, does not embody the Agreed Unit Costs for the Stibnite Airport Area. For your information, the diamond drilling will be paid at $4.73 per foot. You should voucher the drilling accordingly."

Please refer to item 4 in Amendment No. 2 to the contract which does provide that the "Stibnite Airport Area" is substituted for the item "C.D.H. Group of Claims" under the heading "Agreed Unit Costs". Therefore, the amendment does provide for the "Stibnite Airport Area" drilling to be on an agreed unit cost basis.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
September 25, 1953

Copy to: Docket
Admr. Reading File
Mr. Ellis
Mr. Chambers

9/17/5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 10, 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2636 (antimony)
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho
Contract Idm-E453 (Amendment No. 2)

Dear Sir:

Enclosed for your files are the Government, Docket and Division copies of Amendment No. 2, concerning the above contract.

By copy of this letter, the Finance Officer's copy is being distributed.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
Certifying Officer
Quinlan

9/24/53 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
September 15, 1953

Mr. K. G. Wallace, Asst. Mgr.
Bradley Mining Company
Stibnite, Idaho

Subject: Docket No. DMEA 2636 (antimony)
Contract Idm-E453
Yellow Pine Mine

Dear Mr. Wallace:

We note that Amendment No. 2, dated August 21, 1953, does not embody the Agreed Unit Costs for the Stibnite Airport Area. For your information, the diamond drilling will be paid at $4.73 per foot. You should vouchor the drilling accordingly.

Any and all drilling in each area should be vouchered on the agreed unit costs per foot set up for each area, and payment will be accordingly.

You and John A. Scumber, Mining Engineer, U. S. Bureau of Mines, had a discussion regarding the Operator's progress report on Form MF-104A. We quote from a directive from Washington, D.C. as follows:

"Although some items may be grouped together in Exhibit A of the exploration contract, such as '500 feet of crosscutting and drifting,' the work accomplished and the expenditures made for each item should be reported individually on Form MF-104A by the Operator. The Operator should be required to break down items of cost according to the categories under the heading "Operation" on Form MF-104A. If the work performed does not fall within one of these categories it may be listed in the space provided for this purpose under the heading "Operation"."

Our Certifying Officer, Mr. R. J. Hindman, will prepare a work sheet suitable for our mutual records and submit it to you as a suggested procedure.

By DMEA Field Team, Region II

Thor Kiilsgaard, Acting Exec. Officer
U. S. Geological Survey

Thomas E. Howard, Acting Member
U. S. Bureau of Mines

cc: Bradley Mining Co.
San Francisco, Calif.
DMEA, Wash. (2)
USGS (2)
Certifying Officer

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

Wash

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 2636 Contract No. Idm-E 453
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 39,750.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short Form~~ Contracts:	2,061.17		2,061.17			
Drilling				2061.17		2061.17
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision Consultant				230.00		230.00
Technical Services	430.00		430.00	200.00		200.00
(3) Operating Mat'ls. and Supplies:						
Timber	55.17		55.17	—		—
Explosives						
Pipe	60.48		60.48	—		—
Track						
Misc.	19.75		19.75	19.75		19.75
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	252.00		252.00	367.95		367.95
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	144.75		144.75	144.75		144.75
Payroll Taxes						
Liability Insurance						
Accounting	100.00		100.00	100.00		100.00
(8) Contingencies (specify):						
Preparatory work, Undg. & Surface	1,413.35		1,413.35	1413.35		1413.35
Contractor's Move In	330.00		330.00	—		—
TOTALS	4,866.67		4,866.67	4536.67		4536.67

I certify that the above bill is correct and just and that payment therefor has not been received.

Date ..... *Payee Bradley Mining Co.

Per ..... Title Assistant Secretary

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3402.50

Signature ..... (Authorized Certifying Officer)

Date 9/14/53 Vou. No. 899 (See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 453 in accordance with the terms of the contract.

Signature /s/ John a. Bowsher Title Mining Engr Date 8/26/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E Haward Title Mining Engr Date 8/26/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1953 Docket No. DMEA 2636 Contract No. Idu-E 153
Operator's Name Bradley Mining Co. Minerals Antimony
Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes		1862.42		1862.42		5.02		
Drilling: Core S.E. Pit	1 ft.	2871.32	371	2,871.32	371	7.74	6,500	7.49
Churn								
Auger								
Stripping Bulldozer		198.75	75	198.75	75	2.65		
Trenching								
Test Pits								
Roads and Trails								
Other Costs		694.50		694.50				
TOTAL DISTRIBUTED COSTS		~~2871.32~~ 8955.59		~~2,871.32~~ 8955.59				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs		347.65		347.65				
New Buildings, Improvements, etc.		~~252.00~~		~~252.00~~				1,280.00
Contingencies 1413.35		~~1743.35~~		~~1,743.35~~	1413.35			3,038.00
TOTAL COSTS		~~4866.67~~ 9535.67		~~4,866.67~~ 9535.67				53,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 8/24/53 Operator Bradley Mining Co.

Per E C Orton Title Assistant Secretary

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

COPY

August 12, 1953

[illegible] Progress Report for June, 1953

Contract 10[illegible]-2 491

Progress

The diamond drill hole was completed in June in the area southeast of the Yellow Line open pit. This hole, No. D-217, was drilled under the slope area from bench 8 on the east side of the pit. The length of the hole was 371 feet.

Geology

The hole was in the large Homestake fault from [illegible] to approximately [illegible] feet. Beyond 290 feet the rock was essentially free pegmatite and aplite. Very low antimony-gold values were present in the first 55 feet, with only minor amounts in the remainder of the hole.

[illegible]

K. G. Wallace

K. G. Wallace
Assistant Manager

[illegible]/jm

BRADLEY MINING CO.

Stibnite, Idaho

Monthly Supporting Detail

Contract Idm-E 453

June, 1953

Item 1 - Unit Costs, Diamond Drilling

Southeast of Pit Area
Hole B-217

Drilling	371 ft. at $5.02	$1,862.42	
Reaming	75 ft. at $2.65	198.75	
			$2,061.17

Item 2 - Labor and Supervision

Technical Services	$ 200.00	
Consultants	230.00	
		$ 430.00

Item 3 - Operating Materials and Supplies

Timber		
508 bd. ft. Lumber	$ 55.17	
Pipe		
315 ft. 1" pipe	60.48	
Misc.		
Core Boxes	19.75	
		$ 135.40

Item 6 - New Buildings, Improvements, etc.

31.5 hours Tractor Work at $8.00 $ 252.00

Item 7 - Miscellaneous

Analytical Work		
59 Antimony Assays at $1.50	$ 88.50	
75 Gold Assays at $0.75	56.25	
		$ 144.75
Accounting		$ 100.00

Item 8 - Contingencies

North Tunnel -- Repairing tunnel, cutting underground diamond drill stations, installing compressor, installing air and water systems.

Labor - 426.5 hrs.	$ 832.45	
Comp. Insurance	27.43	
Supplies & Materials	454.97	
		$1,314.85

<u>Pit Area</u> -- Installing culverts, barring down pit slopes.

Labor - 44 hrs.	$ 80.18	
Comp. Insurance	2.64	
		$ 82.82

<u>Hennessey Creek Area</u> -- Installing water pipe

Labor - 8 hrs.	$ 15.18	
Comp. Insurance	.50	
		$ 15.68

Drill Contractor's Move-In Charge	$ 330.00

YELLOW PINE MINE
Stibnite, Idaho

COORDINATES: 29,901.0 S
20,633.3 E

DIAMOND DRILL HOLE NO. D-217

BEARING: S 11° 57' E

INCLINATION: Minus 22°

ELEVATION: 6,070.4

Page No. 1

Footage	Mineralogy	% Recovery	% SO3	Oz. Au	% Sb	Size Core
0 - 5	Dark grey, brecciated "granite ore", completely altered to 2½'; light grey completely altered granite to 5'. Stibnite in fractures. Disseminated pyrite.	95	Nil	.015	.19	Bx
5 - 10	No core recovery	0	"	.015	.18	"
10 - 15	" " "	0	"	.010	.05	Bx
15 - 20	Completely altered granite and aplite.	5	"	.005	.02	"
20 - 25	"Granite ore type" - intensely altered granite, some brecciation. Visible stibnite and disseminated pyrite	90	"	.020	.08	"
25 - 30	"Granite ore type". Disseminated pyrite, some stibnite.	50	"	.045	.08	"
30 - 35	Fault breccia, dark grey with disseminated stibnite and pyrite.	15	"	.045	.11	"
35 - 40	Fault breccia and gouge. Completely altered granite. Some pyrite	35	"	.015	.06	"
40 - 45	Fault breccia and gouge. Completely altered granite. Some pyrite.	20	"	.030	.14	"
45 - 50	Fault breccia and gouge. Dark grey to 47'; light grey to 50'. Pyrite.	50	Tr	.025	.72	"
50 - 55	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	40	Nil	.020	.29	"
55 - 60	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	60	"	.005	.14	"
60 - 65	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	30	"	.010	.05	"
65 - 70	Fault breccia and gouge. Chlorite and sericite, foliation. Gloss	95	"	.005	.04	"
70 - 75	Fault Breccia & gouge. Chlorite & sericite, Fol.	65	"	.005	.19	"
75 - 80	" " " " " " " "	60	"	Tr	.18	"
80 - 85	" " " " " " " "	20	"	.005	.09	"
85 - 90	" " " " Chlorite	20	"	Tr	.04	"
90 - 95	" " " " Abundant quartz fragments. White color	75	"	Tr	.05	"

Diamond Drill Hole No. S-217 - continued

Footage	Description	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
95 -100	Fault breccia & gouge. Abundant quartz fragments. White color	85	Nil	Tr	.04	Bx
100-105	Fault breccia & gouge. Some unbrecciated aplite. Disseminated pyrite.	5	"	Tr	.09	"
105-110	Fault breccia & gouge. Abundant quartz fragments. White color	35	"	Tr	.06	"
110-115	Fault breccia & gouge. Abundant quartz fragments. White color.	60	"	.010	.04	"
115-120	No core recovery.	0	"	Tr	.03	"
120-125	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	55	"	.005	.03	"
125-130	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite	40	"	Tr	.03	"
130-135	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	60	"	Tr	.04	"
135-140	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	75	"	Tr	.04	"
140-145	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	45	"	Tr	.03	"
145-150	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	35	"	Tr	.04	"
150-155	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	85	"	.005	.04	"
155-160	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	50	"	.005	.04	"
160-165	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	10	"	.005	.02	"
165-170	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.08	"
170-175	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.05	"
175-180	Fault breccia and gouge. Pale green color. Mainly chlorite and sericite.	95	"	Tr	.04	"
180-185	Fault breccia and gouge. Very faint green color.	95	"	.005	.23	"
185-190	" " " " " " " "	35	"	Tr	.03	"
190-195	" " " " Greenish-grey color. Chlorite and sericite.	90	"	Tr	.12	"
195-200	Fault breccia and gouge. " " " Chlorite and sericite.	90	"	Tr	.06	"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% CO_3	Oz. Au	% Sb	Size Core
200-205	Fault breccia and gouge. Greenish-grey color. Chlorite and sericite.	70	Nil	.005	.03	Bx
205-210	Fault breccia and gouge. " " " Chlorite and sericite.	70	"	.005	.31	"
210-215	Fault breccia and gouge. " " " Chlorite and sericite.	40	"	.005	.06	"
215-220	Fault breccia and gouge. " " "	95	"	Tr	.02	"
220-225	Fault breccia and gouge. Altered aplite.	10	"	Tr	.01	Ax
225-230	" " " " Black gouge, foliated.	10	"	Tr	.01	"
230-235	" " " " Altered aplite. Sulfides in fractures	10	"	Tr	.03	"
235-240	Fault breccia and gouge. Altered aplite.	15	"	.010	.03	"
240-245	" " " " " "	20	"	.015	.04	"
245-250	Altered aplite with sericite. 249-250' chlorite and sericite.	30	"	.015	.03	"
250-255	No core recovery.	0	"	.010	.01	"
255-260	Completely altered granite and aplite. Some pyrite	10	"	Tr	.02	"
260-265	" " " " " Some brec.	35	"	Tr	.03	"
265-270	Mainly altered aplite and granite. Some fresh fine-grained granite.	95	"	.020	Tr	"
270-275	Granite, some aplite. About 90% altered.	95	"	Tr	.02	"
275-280	" " " " " "	80	"	Tr		"
280-285	" " " " " "	10	"	.005		"
285-290	" " " " " "	100	"	.005	.04	"
290-295	" About 90% altered.	60	"	.005		"
295-300	" " " "	90	"	.005		"
300-305	Altered granite, some aplite.	50	"	.005		"
305-310	Granite, about 90% altered.	100	"	.005	.02	"
310-315	" " " "	85	"	Tr		"
315-320	" " " "	60	"	Tr		"
320-325	Granite and aplite, about 75% altered. Pyrite at 321'.	70	"	.010		"
325-330	Altered granite to 326'; aplite to 328'; fresh fine-grained granite to 330'.	55	"	.010		"
330-335	Fine-grained granite, essentially fresh.	85	"	.005	.01	"
335-340	Altered granite and aplite to 326'; fresh fine-grained granite to 340'.	90	"	.015		"
340-345	Fresh fine-grained granite.	100	"	.005		"
345-350	" " " "	100	"	Tr		"

Diamond Drill Hole No. 3-217 - continued

Footage	Description	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
350-355	Altered granite to 351'; fresh fine-grained granite to 355'.	75	Nil	.015		Ax
355-360	Fresh fine-grained granite.	90	"	.015		"
360-365	" " " "	80	"	.005	.06	"
365-370	Fresh " " " to 367'; aplite to 368'; partially altered granite to 370'.	95	"	Tr		"
370-371	Fresh fine-grained granite.	95	"	Tr		"

End of hole at 371 feet.

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: June 22, 1953; finished June 30, 1953.

AUG 24 1953

Mr. A. E. Weissenborn
Executive Officer
DMA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMA-2636 (Antimony)
Contract No. Ida-7453
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho

Dear Mr. Weissenborn:

Enclosed herewith are the original and five copies of proposed Amendment No. 2 to the above-captioned contract, signed by the Administrator, which was prepared in accordance with your letter of August 6, 1953.

If any part of this proposed amendment does not meet with the approval of the Operator, the original and all copies are to be returned to this office with the proposed changes for consideration. After the signature of the Operator has been obtained, kindly distribute the copies in the usual manner.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee

Enclosures 6

APPROVED:

C. H. Johnson

Member, Bureau of Mines

D. M. Larrabee

Member, Geological Survey

FMMurphy/gla 8-20-53
cc to: Adm. Pending File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3061
A. H. Kinkel, Rm. B-242A, GSA
Ellis
Murphy

81

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
AUG 13 1953

August 8, 1953

Air Mail

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Co. (Yellow Pine)
Valley County, Idaho
Contract Idm-E453

Dear Mr. Selfridge:

This is in amplification of a telephone conversation with Mr. Mittendorf relative to the shifting of some surface drilling on the above contract from the CDH area to the so-called Airport area. Following this conversation, Mr. Mittendorf teletyped this office that in the opinion of Legal the amendment should be drafted in Washington and that upon receipt of a memo from the Field Team justifying the shift, together with map and description of the Airport area claims, such an amendment would be immediately prepared. It was also stated that we might advise the Operator accordingly.

The present contract provides drilling at four different and widely scattered sites along the Meadow Creek fault. It also provides that relocation, direction, length and total footage of the holes can be shifted by approval of the Field Team as desired. During a recent visit to the property by Killsgaard and myself the manner of shifting the drilling provided for in the so-called CDH area was discussed briefly. The Bradley Mining Company has given further thought to this change in work following a rather thorough inspection of the property by the present consulting geologist, Mr. Roger McConnel. It is now formally requested that the drilling planned at the CDH area be shifted to the Airport area.

There is nothing fundamentally wrong with the CDH area. Trenching done by the company has shown some mineralization and there is also the suggestion of intersecting structures similar to those which have localized ore elsewhere along the Meadow Creek fault zone. These showings, plus Dr. Carlton D. Hulin's hypothesis of a zonal theory on the control of the ore deposits, was the reason for the inclusion of the CDH area in the DMEA contract. In the Airport area there

is considerably stronger evidence of intersecting structures as there is a strong fault zone that should merge with the Meadow Creek fault in this vicinity. Exploration at this zone of merger has been suggested previously by Don White in USGS Bulletin 922I and also by others. Furthermore, the area is more accessible than the CDH area and so much nearer the other company operations. It could be more readily explored and, if the exploration was successful, more readily developed and more conveniently operated. The present company management and technical directors do not regard Rulin's zonal theory on ore control as established and, therefore, they strongly favor transfering the drilling to the Airport area. I would have no objections to this as I regard the Airport area as equally as good as that of the CDH area and more favorable from an operating standpoint. This proposed shift does not change in any fundamental way the purpose of the exploration which was to drill at a number of localities along the Meadow Creek fault.

The attached letter from the company dated July 29, 1953 with map show the names, book and page numbers of additional claims which should be added to the contract to protect the Government's investment if work is shifted into the Airport area. I believe this will give ample protection. There is only one complication that I can foresee and that is that some of the claims are already included in our contract E173 on the DMEA tunnel exploration. This could cause no new difficulties because inspection of contracts E173 and E453 shows that some of the claims are already common to both contracts. Since this condition already exists the inclusion of the two or three more claims of the subject contract would not seem to make much difference. As a matter of fact, sufficient information is not yet available to make a definite statement but it does appear likely that a discovery could logically be certified on both contracts. The DMEA tunnel has entered into sulfide mineralization, some of which would be ore if it were in the Yellow Pine open pit. Further drilling now planned by the company under the contract is expected to further outline and define the limits and grade of this body.

Diamond drilling under contract E453 in the open pit area and in the Fiddle Creek area has cut mineralized ground, although the mineralized areas are not too extensive. Complete assay data were not available at the time we inspected the core but it would appear, from visual inspection, that portions of the core are close to ore grade. If continued drilling is successful in extending the limits of these drilled ore bodies, there will be a possibility that both contracts will be certified as discoveries. As a matter of fact, if a discovery is certified on contract E453, royalty payments could be obtained from production from the present Yellow Pine open pit as that area is covered by the contract and ore has been found in DMEA drill cores close to the present walls of the pit.

Drilling is, at present, being done with two rigs and is progressing very rapidly. This was the reason why it was necessary to take up this matter by telephone and why there is some urgency in getting this amendment drawn. We trust it can be prepared and returned to us at an early date.

Sincerely yours,

A. E. Weissenborn, Executive Officer
DMEA Field Team, Region II

Enclosures 2
cc: USBM (2)

P. S. There is only 1 copy of the claim map available but trust this is sufficient for your immediate needs. AEW

COPY

DMEA
1201 No. Div
Spokane, Was

July 29, 1953

Mr. A. E. Weissenborn, Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMEA 2636
Contract Idm-E453

Dear Mr. Weissenborn:

Enclosed is a map showing the claims covering the area involved in the recently outlined drilling under the Stibnite Airport.

The claims are listed below:

Patented

Meadow Creek No. 1	Patent No. 974550
Meadow Creek No. 4	Patent No. 974550
Meadow Creek No. 5	Patent No. 974550

Unpatented

Meadow Creek No. 6	Book 6	Page 228
" " " 11	Book 6	" 232
" " " 12	Book 6	" 233
" " " 16	Book 6	" 234
Meadow Quartz No. 1	Book 6	" 237
" " " 2	Book 6	" 238
" " " 5	Book 6	" 240
" " " 6	Book 6	" 241
" " " 7	Book 6	" 248
" " " 8	Book 6	" 249
" " " 9	Book 12	" 487

Five of the above listed claims are also included in Contra Idm-E173 (DMEA Tunnel project):

Meadow Creek No. 1
" " " 4
" " " 5
" " " 6
" " " 11

The approximate position of the first drill hole is shown on the map. The location of additional drilling in the area will be largely dependent upon the results in the first hole.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

cc: DMEA, Spokane

EXPLORATION PROJECT CONTRACT
BRADLEY MINING COMPANY
DOCKET NO. DMEA-2636
CONTRACT NO. I&M-E 453

RECEIVED
AUG 17 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

AMENDMENT NO. 2

(Amendment to change drilling locations)

In Exhibit "A" under Description of the Work in the sentence "The proposed drill holes are shown on the maps, Exhibits "B" and "C" but with Government approval, ----." delete "C" and substitute "D". Under AGREED UNIT COSTS delete the "C.D.H. Group of Claims" and substitute "Stibnite Airport Area".

The approximate position of the first drill hole is shown on map entitled Exhibit D. The location of additional drill holes will be dependent on results of this hole and are subject to Government approvals.

In Annex I - delete claims C.D.H. No's 1 to 9 inclusive. and add the following claims;

Patented.

Meadow Creek No 1.	Patent No. 974550
" " " 4	" "
" " " 5	" "

Unpatented.

Meadow Creek No. 6	Book 6	Page 228
" " " 11	" "	" 232
" " " 12	" "	" 233
" " " 16	" "	" 234

Meadow	Quartz	No 1	Book	6	Page	237
"	"	" 2	"	"	"	238
"	"	" 5	"	"	"	240
"	"	" 6	"	"	"	241
"	"	" 7	"	"	"	248
"	"	" 8	"	"	"	249
"	"	" 9	"	12	"	487

<u>Note.</u>

Five of the above listed claims are also included in contract Idm-E 173 (DNER Tunnel project), namely the:

Meadow Creek No 1
" " " 4
" " " 5
" " " 6
" " " 11

EXPLORATION PROJECT CONTRACT
CORDLEY MINING COMPANY
DOCKET NO. DMEA-2636
CONTRACT NO. Idm-E 453

RECEIVED
AUG 17 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

Justification for Amendment No. 2

There is nothing fundamentally wrong with the CDH area, however, the Airport area shows considerably stronger evidence of intersecting structures as there is a strong fault zone in this vicinity that should merge with the Meadow Creek fault.

In relation to the CDH area, the Airport area can be more readily explored and, if the exploration is successful more conveniently developed and operated, as it is much nearer the company's present operations.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
XXXXXXXXXXXXXXXXXX
1201 N. Division St.
Spokane 2, Washington
August 7, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: V. Z. Johnson, Mining Engineer, U. S. Bureau of Mines

Subject: Inspection Bradley Mining Co. (Drilling) Valley County, Idaho. Contract Idm-E453, Docket No. DMEA 2636 (antimony)

The inspection was made on July 25, 1953, with Mr. K. G. Wallace, engineer in charge.

This contract originally scheduled 10,565 feet of diamond drilling distributed in six areas. About 1,040 feet of drilling had been completed in three holes in the area southeast of the pit on the date of the inspection and 331 feet of drilling had been completed from the southeast crosscut in the North Tunnel area. The holes are drilled as follows:

Area South East of Pit:

No. B 217, 370 ft.-22°, S 11° E, from North 29900, East 20630, Elev. 6070.
No. B 218, 500 ft. - 10°, S 25° E, from North 29590, East 20400, Elev. 6072.
No. B 219, 170 ft. (and continued) 10°, S 87° E, from 29590, East 20400, Elev. 6072.

North Tunnel Area:

No. FC I, 331 ft. (and continued) - 2°, S 45°-50° E, from North 25950, East 20010, Elev. 6523.

Total of 1,371 ft. are the contract units completed as of the date of this inspection.

Hole No. B 217 was drilled in the altered granite associated with the large fault for about 230 feet and the balance was in fresh granite. An assay of 0.025 oz. Au and 0.27% Sb, was returned on a sample taken at about 50 feet from the collar.

Hole No. B 218 encountered 5 feet of altered granite which assayed 3.85% Sb at about 80 feet and a 15-foot segment of the same zone assayed 1.73% Sb with Au from traces to 0.02 ounces. A dacite dike was encountered at about 190 feet and the remainder of the hole was in fresh granite.

Hole No. B 219 was still in altered granite on the day of the inspection, and the operator intends to stop this hole when fresh granite is encountered.

Hole No. FC 1 encountered a wide zone of altered granite beyond 300 feet in which there was considerable sulphides but no apparent stibnite and the sections of core did not lamp as scheelite.

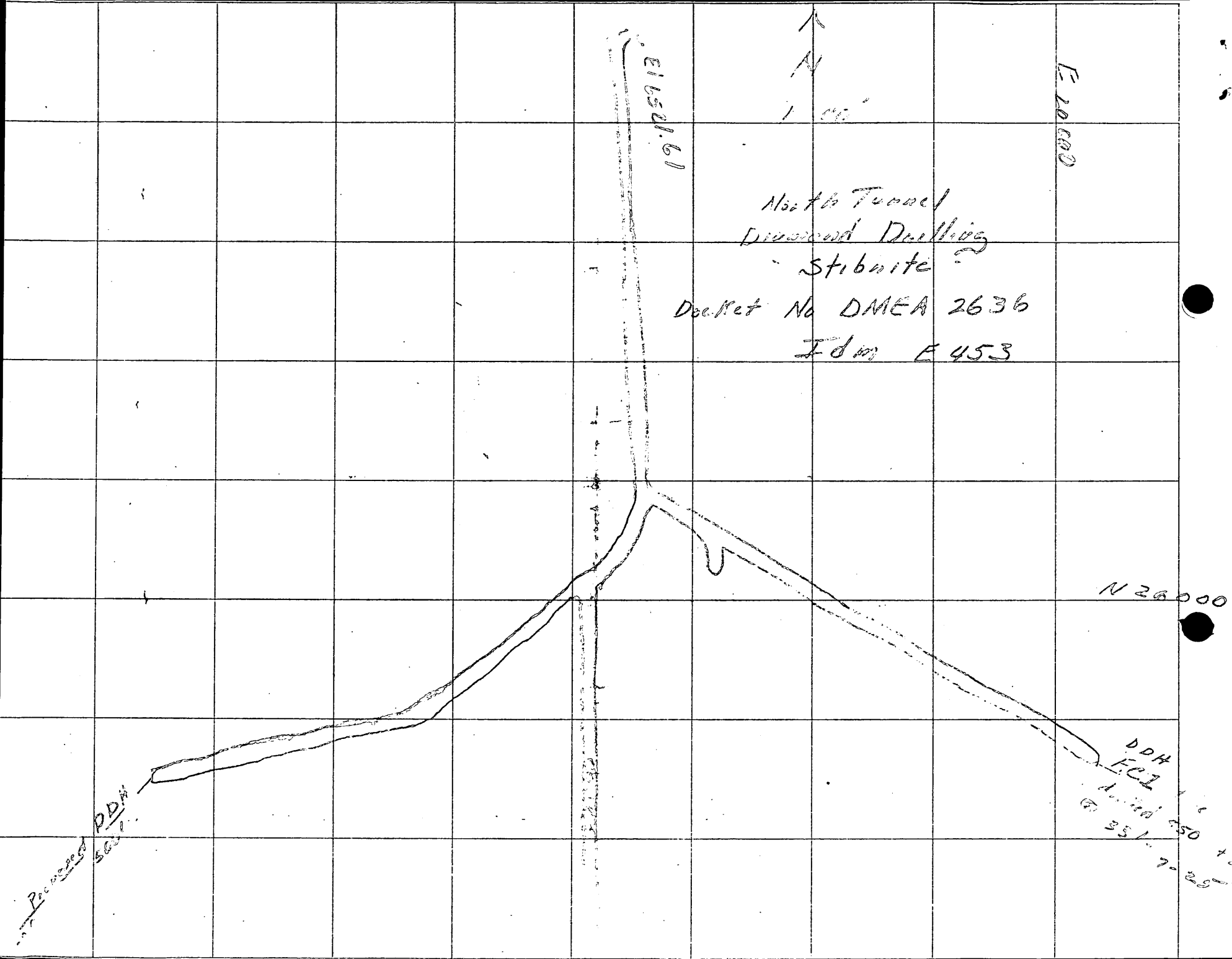
Mr. Wallace mentioned a proposed arrangement of holes being considered by the operators' consulting geologist and Mr. Weissenborn of the U. S. G. S. which would divert some of the proposed drilling into another area.

Two drill rigs are operated by the sub-contractor who has two shifts of two men on each rig. The core recovery is generally above 75 percent except in broken zones and in the dikes. Sludge is also recovered in zones where these cuttings may be of value. The workmanship is satisfactory.

V. Z. Johnson

cc: ORIG. & 3 CYS- Wash.
USGS (2)
DMEA
M/D

VZJ;mp


N
E 1152.61
E 20000
North Tunnel
Diamond Drilling
Stibnite
Docket No DMEA 2636
Idm E 453
N 26000
DDH
EC1
Proposed DDH

HEAD OFFICE:
425 CROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER

STIBNITE, IDAHO

DMEA

May 5, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 18 1953

Mr. A. E. Weissenborn, Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. 2636
Contract Idm-453

Dear Mr. Weissenborn:

We have received Mr. Kirkemo's letter of April 24th from your office regarding increased unit costs under the subject contract.

We appreciate very much your efforts to increase the unit costs for diamond drilling and we will, of course, proceed with the drilling as scheduled. In a few days we expect to start the tractor work necessary for drill site preparation and begin making core boxes and generally complete as much of the preliminary work as possible before June. From all indications drilling should commence in the fore part of June.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Senior Engineer

KGW/ja

cc: DMEA
1201 No. Division St.
Spokane 2, Washington

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~
No. 157 Howard Street
Spokane 4, Washington

April 24, 1953

Mr. K. G. Wallace, Senior Engineer
Bradley Mining Company
Bradley Field
P.O. Box 638
Boise, Idaho

Re: Docket No. DMEA-2636 (Antimony)
Bradley Mining Company
Yellow Pine Mine
Lemhi County, Idaho
Contract Idm-E453

Dear Mr. Wallace:

Your letter of April 6 giving the bids that you received for the diamond drilling for Contract Idm-E453 has been received.

When you first brought this matter to our attention, we forwarded your letter to our Washington office for an opinion. I regret to inform you that we have been advised by the Legal Division that the unit costs on the contract cannot be revised upward, and that they do not see any way by which this can be done. I expect to discuss this further when I am in Washington next week, but I do not see any hope that a higher price can be extended to you for the drilling.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: John D. Bradley
Bradley Mining Co.
425 Crocker Bldg.
San Francisco, Cal.

USBM (2)
DMEA (2)
Puffett

Contract file

Mailed 4/14/53

Mr. [illegible]
Executive Officer
[illegible] Gold Fever,
South 1[illegible]7 Second Street
[illegible]

[illegible] (Advisory)
[illegible] 53
[illegible] Advisory
[illegible] the Mine
[illegible]

Dear Mr. [illegible]

This acknowledges receipt of your letter of March 11, concerning a request for increased unit costs in the subject contract.

A copy of an opinion by the legal division in this case, dated March 27, is enclosed. From it and it appears that since the contract was signed by the operator he should have ascertained what his costs were before he entered into the contract. It will be noted that the legal division does not reveal any way in which increased costs can be allowed in the case of agreed unit costs.

It might be mentioned that there is a certain hazard in these agreed unit cost contracts which work both ways. It is not uncommon that an operator will reimburse the RFC for any reduction in actual costs as compared with the agreed unit costs.

It is suggested that the drilling company is in position to make a drilling contract and will take advantage of any possible reduced costs in the drilling such as have occurred, for instance, in New Mexico.

With respect to crediting the last [illegible] in this contract, and in reduced [illegible] 1/3, it does seem possible that the agreed unit costs might be obtained if the company uses the [illegible] its [illegible], thereby eliminating, at least in part, the contractor's profit.

It is, therefore, visable for operators signing contracts certain agreed unit costs to remember that these costs when once agreed upon cannot be increased by a simple

amendment nor by the subterfuge of rescinding the contract and substituting a new one with higher costs.

It would, therefore, seem that it is the obligation of the operator to complete his contract and assume the contracted costs.

Sincerely yours,

[illegible]

Chairman, Operating Committee

Enclosure

APPROVED:

[illegible]

Member, Bureau of Mines

[illegible]

Member, Geological Survey

F.Schmidt/gla 4-6-53
cc to: Adm.Reading File
Operating Committee
Docket
Messrs. A.Renick, Rm. 3061
[illegible] Winkel, Jr.Rm.4234 GSA
Mr. Ellis
Mr. Schmidt
DMA FT, Region II

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

March 30, 1953

Memorandum

To: The Administrator

From: Chief Counsel

Subject: Bradley Mining Company, Docket No. DMEA-2636, Contract No. Idm-B453 - Antimony

Reference is made to the letter from Mr. Weissenborn to Mr. Selfridge dated March 11, enclosing a letter from K. G. Wallace of the Bradley Mining Company to Mr. Weissenborn dated March 7. This letter was turned over to us by Mr. Schmidt of the Rare & Miscellaneous Metals Division for our attention.

In Mr. Wallace's letter, the request is made to increase the cost of the project because the operator cannot find a contractor willing to do the drilling at the unit cost price specified in the contract.

This contract is dated November 25, 1952, and work was to have been started within 60 days therefrom. There is no evidence that work has been commenced and according to Mr. Schmidt, no work has been done at all.

I can find no legal reason for complying with the operator's request. There is no evidence of any mutual mistake of fact regarding the cost of the project and Mr. Wallace's letter negatives any such claim. Furthermore, as no new work is to be undertaken, there would be no new consideration to the Government for increasing the project cost.

J. L. Hofflund
Chief Counsel

Attachment

AEKane/mef
cc to: Mails and Files
Mr. Ellis
Mr. Hofflund
Mr. Kane
Chron.

P.S. As analternative to increasing the total estimated cost of the project, operator suggests cutting down drilling footage, or shifting funds scheduled as actual costs to increase unit costs, but the same objections still apply.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
~~XXXXXXXXXXXXXXXXXX~~
~~WASHINGTON 25, D. C.~~
So. 151 Howard St.
Spokane 4, Washington

March 11, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Spokane
MAR 19 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2636
Bradley Mining Company
Yellow Pine Mine
Valley Co., Idaho
Contract No. Idm-1453

Dear Mr. Selfridge:

I am enclosing a self-explanatory letter received from Mr. K. G. Wallace, engineer for the Bradley Mining Company, with reference to an increase in drilling costs.

Mr. Wallace has been advised that such revision is beyond the authority of the Field Team and that the matter will be referred to you as the Chairman of the Operating Committee. He has been requested to submit letters from drilling contractors stating the new price, but I have made no promises that the unit costs for this drilling can be increased. This information will be forwarded to you as soon as it is received.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
cc: C. O. Mittendorf
USBM(2)
Nickelson

Original copy to docket file

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
[illegible]
[illegible] 157 Howard Street
Spokane 4, Washington

March 12, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]

MAR 19 1953

Mr. J. G. Wallace, Senior Engineer
Bradley Mining Company
Stibnite, Idaho

Dear Mr. Wallace:

I have your letter of March 7 requesting an increase in the unit cost for drilling at the new Stibnite property and suggesting several ways by which this might be accomplished. I can appreciate that there may well have been changes in drilling costs since the proposal was submitted last summer. Nevertheless, revisions of this sort are beyond the authority of the Field Team to make. If you will submit to me copies of bids received from the various drilling contractors whom you have undoubtedly contacted showing the new rates that you propose, I would be very glad to forward this information to our Washington office. Normally, it is difficult to increase an agreed on unit cost in a contract, but the fact that work has not actually been started may make such a change possible. Any such change or amendment, however, would have to be made by our Washington office and not by the Field Team.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: John D. Bradley, San Francisco
DMEA (2) ✓
USBM (2)
Nickelson

HEAD OFFICE:
425 DROCKER BLDG.
SAN FRANCISCO 4

BOISE, IDAHO OFFICE:
BRADLEY FIELD
P. O. BOX 638

BRADLEY MINING CO.

YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

March 7, 1953

USBM

Mr. A. E. Weissenborn, Executive Officer
Field Team, Region II
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. 2636
Contract Idm-453

Dear Mr. Weissenborn:

In attempting to let a contract (or more correctly, a subcontract) for the diamond drilling in the Stibnite area, we have run into a cost problem.

We made application to the D.M.E.A. for the project in July, 1952, based on diamond drilling costs quoted to us in the spring of 1952. Now, one year later, we cannot find a contractor willing to do the drilling at the rates specified in the contract. Increased bit and labor costs are given as the reason for higher overall drilling prices.

The net effect of the higher drilling costs will be to increase the direct drilling costs from the contract figure of $42,557.00 to approximately $48,145.00, an increase of $5,588.00.

We will appreciate your advice on possible ways to change the contract to allow for the increased costs. It occurs to us that there are three alternatives that may be possible:

1 - Amend the contract to increase the allowable unit costs and the total estimated cost of the project in the amount of $5,588.00.

2 - Shift funds available under contract items 1 through 8 over to the unit costs specified for diamond drilling in the hope that we will be able to hold costs below the amounts allowable for such items as technical services, consultants, contingencies, etc.

3 - Cut down the drilling footage by some 750 feet and increase the allowable unit costs, but retain the present total cost of the project.

Below are itemized the various unit costs as they appear in the contract and the new actual unit costs that result from higher drilling costs:

	Footage	Contract Unit Cost	Total	New Unit Cost	Total
C.D.F. Group	3,000	$4.73	$14,190.00	$5.97	$17,910.00
SE of Pit	1,500	5.02	7,530.00	5.53	8,295.00
Hen. Creek	500	5.10	2,550.00	5.63	2,815.00
North Tunnel	1,500	4.10	6,150.00	4.53	6,795.00
Driving Pipe	215	9.00	1,935.00	9.90	2,128.00
Ream & Case	3,850	2.65	10,202.00	2.65	10,202.00
			$42,557.00		$48,145.00

We have had a normal Stibnite winter (which means quite a bit of snow) and we hope to start the project as soon as the snow is off the ground. It should be possible to begin drilling in June and complete the program in four or five months.

Very truly yours

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Senior Engineer

KGW/ja

cc: Mr. M. E. Volin

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D.C.
So. 157 Howard Street
Spokane 4, Washington

March 11, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 19 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMA-2636
Bradley Mining Company
Yellow Pine Mine
Valley Co., Idaho
Contract No. Idm-1453

Dear Mr. Selfridge:

I am enclosing a self-explanatory letter received from Mr. R. G. Wallace, engineer for the Bradley Mining Company, with reference to an increase in drilling costs.

Mr. Wallace has been advised that such revision is beyond the authority of the Field Team and that the matter will be referred to you as the Chairman of the Operating Committee. He has been requested to submit letters from drilling contractors stating the new price, but I have made no promises that the unit costs for this drilling can be increased. This information will be forwarded to you as soon as it is received.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosure
cc: S. O. Wittendorf
DMA(2)
Nicholson

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Spokane, Washington
February 20,1953

Bradley Mining Company
425 Crocker Building
San Francisco 4, Calif.

Subject: Waiver of invoice documentation requirements - Contract No. Idm-E427-DMEA-2635 and Contract No. Idm-E453-DMEA-2636

Gentlemen:

The Contract Administration and Audit Division, DMEA, has determined on authority from the General Accounting Office that the requirement for documentary support of monthly invoices, except for purchases of equipment, may be waived at the discretion of the Field Team Executive Officer.

If this requirement is waived, however, it will be necessary that an auditor of the Contract Administration and Audit Division examine the accounts maintained by the Operator under his contract, render an audit report, and issue an audit certificate which becomes a part of the final invoice (Form MF-104, Revised). Under the waiver procedure, payment of the final voucher cannot be made until after the audit of the Operator's records.

This will inform you that invoicing requirements for work within the terms of your exploration project contract will be waived effective as of the date of the subject contracts, provided such procedure meets with your approval.

An early reply indicating your wish in this matter will be appreciated.

Sincerely yours,

/s/A. E. Weissenborn
A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: Contract Admin. Audit Div. (2)
Certifying Officer (2)
Robt. Hull, Auditor
USGS
DMEA

2/3/53 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
No. 157 Howard Street
Spokane 4, Washington

January 26, 1953

Mr. E. C. Wallace, Senior Engineer
Bradley Mining Company
Bradley Field, P.O. Box 631
Boise, Idaho

Re: Docket [illegible]-2636
Yellow Pine Mine
Contract Idn-153

Dear Mr. Wallace:

This will acknowledge your two letters of January 16, one concerning Contract Idn-173 to which the Bureau of Mines will reply, and the other, Contract Idn-153.

In regard to your question whether the drilling can be contracted or not, the way the contract reads is somewhat confusing. It is our interpretation, and we are quite confident that we are correct, that inasmuch as the contract indicates that the drilling is to be done on a unit cost basis, our only interest is in seeing that the work proceeds with reasonable speed and that the desired geologic information is obtained. The drilling may be done either by yourself or by subcontract, and we do not believe that we shall have to approve the subcontract.

Sincerely yours

L. A. Heisenbottom
Executive Officer, [illegible]
Field Team, Region [illegible]

cc: [illegible]
John Bradley
Boise, Idaho

425 Crocker Bldg.
San Francisco 4, Cal.
Duffott
[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~

S. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 19 1953

January 15, 1953

Mr. John D. Bradley
Executive Vice-President
Bradley Mining Company
425 Crocker Building
San Francisco, California

Re: Docket No. DMEA-2636 - Antimony
Valley County, Idaho (Yellow Pine)
Contract No. Idn-E453

Dear Jack:

When you signed this new contract in our office some time ago, the Guaranty was inadvertently overlooked. Would you please sign the copies enclosed and return them all to me? You will wish to complete your copy also.

If the number of days under Article 3 is not designated on your copy of the contract, would you please indicate "120 days"? Thank you very much.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team Region II

cc: DMEA (2)
USBM (2)

EMR/

December 24, 1952

Memorandum

To: Harold Curry, Operating Committee

From: Grace L. Alt, Area and Misc. Retail Division

Subject: Clearance Amendments

<u>Docket No. [illegible]-1176, Contract No. [illegible]
[illegible] Indian Company</u>

Mr. [illegible] has reviewed Amendment No. 2, dated December 9, 1952, [illegible] by [illegible], and has no over it.

<u>Docket No. [illegible]-1174, Contract No. [illegible]-172
[illegible] Indian Company</u>

Mr. [illegible] has reviewed Amendment No. 6, [illegible] 31, 1952, [illegible] Section [illegible], and has no over it.

<u>Docket No. [illegible]-437, Contract No. [illegible]-239
[illegible], Mr.</u>

Mr. [illegible] has reviewed Amendment No. 2, dated [illegible], 1952, [illegible], and has no over it.

<u>Docket No. [illegible]-436, Contract No. [illegible]-[illegible]
[illegible] Company</u>

Mr. [illegible] has reviewed Amendment No. 1, dated December 15, 1952, [illegible], and has no over it.

Grace L. Alt

GLAlt/jen
12/24/52

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

[redacted]
So 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 - 1952

December 1 1952

Mr. Frank E. Johnson Chairman
Operating Committee DMA
Department of the Interior
Washington 25 D. C.

Re: Docket DMEA-2630 (Antimony)
Bradley Mining Company
Valley County Idaho
Contract Ida-2495

Dear Mr Johnson:

Attached are the original and two signed copies of Amendment No 1 to the subject contract with attached justification

Copies of this amendment have been retained by the Operator and the Field Team and by a carbon copy of this letter we are sending the Finance Officer's copy to him

Sincerely,

[illegible] Wickenborn
Executive Officer DMA
Field Team Region II

Enclosure

cc: Finance Officer w/encl
USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

[illegible]
[illegible] Howard Street
Spokane [illegible]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

[illegible]

Mr Frank [illegible] Johnson [illegible]
Operating Committee [illegible]
Department of the Interior
Washington [illegible]

Re: Pocket DMA-[illegible] (Contract)
Bradley Mining Company
Valley County, Idaho
Contract [illegible]

Dear Mr Johnson:

Enclosed are [illegible] original and two copies of [illegible] in Project Contract [illegible] which has been duly executed by the Bradley Mining Company.

Copies of this contract have been retained by the Operator and the Field Team, and by a carbon copy of this letter we are distributing the Finance Officer's copy.

Sincerely,

[illegible]
[illegible]
Field [illegible]

Enclosure

cc: Finance Officer w/encl
DMM (2)

YELLOW PINE MINE
Stibnite, Idaho

COORDINATES: 29,901.0 N
20,633.3 E

DIAMOND DRILL HOLE NO. B-217

BEARING: S 11° 57' E

INCLINATION: Minus 22°

ELEVATION: 6,070.4

Page No. 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 5	Dark grey, brecciated "granite ore", completely altered to 2½'; light grey completely altered granite to 5'. Stibnite in fractures. Disseminated pyrite.	95	Nil	.015	.19	BX
5 - 10	No core recovery	0	"	.015	.18	"
10 - 15	" " "	0	"	.010	.05	BX
15 - 20	Completely altered granite and aplite.	5	"	.005	.02	"
20 - 25	"Granite ore type" - intensely altered granite, some brecciation. Visible stibnite and disseminated pyrite	90	"	.020	.08	"
25 - 30	"Granite ore type". Disseminated pyrite, some stibnite.	50	"	.045	.08	"
30 - 35	Fault breccia, dark grey with disseminated stibnite and pyrite.	15	"	.045	.11	"
35 - 40	Fault breccia and gouge. Completely altered granite. Some pyrite	35	"	.015	.06	"
40 - 45	Fault breccia and gouge. Completely altered granite. Some pyrite.	20	"	.030	.14	"
45 - 50	Fault breccia and gouge. Dark grey to 47'; light grey to 50'. Pyrite.	50	Tr	.025	.72	"
50 - 55	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	40	Nil	.020	.29	"
55 - 60	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	60	"	.005	.14	"
60 - 65	Fault breccia and gouge. Chlorite and sericite, foliation. Disseminated pyrite.	30	"	.010	.05	"
65 - 70	Fault breccia and gouge. Chlorite and sericite, foliation. ~~Diss~~	95	"	.005	.04	"
70 - 75	Fault breccia & gouge. Chlorite & sericite, Fol.	65	"	.005	.19	"
75 - 80	" " " " " " " "	60	"	Tr	.18	"
80 - 85	" " " " " " " "	20	"	.005	.09	"
85 - 90	" " " " Chlorite	20	"	Tr	.04	"
90 - 95	" " " " Abundant quartz fragments. white color	75	"	Tr	.05	"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
95 -100	Fault breccia & gouge. Abundant quartz fragments. White color	65	Nil	Tr	.04	Bx
100-105	Fault breccia & gouge. Some unbrecciated aplite. Disseminated pyrite.	5	"	Tr	.09	"
105-110	Fault breccia & gouge. Abundant quartz fragments. White color	35	"	Tr	.06	"
110-115	Fault breccia & gouge. Abundant quartz fragments. White color.	60	"	.010	.04	"
115-120	No core recovery.	0	"	Tr	.03	"
120-125	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	55	"	.005	.03	"
125-130	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite	40	"	Tr	.03	"
130-135	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	60	"	Tr	.04	"
135-140	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	75	"	Tr	.04	"
140-145	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	45	"	Tr	.03	"
145-150	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	35	"	Tr	.04	"
150-155	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	85	"	.005	.04	"
155-160	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	50	"	.005	.04	"
160-165	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	10	"	.005	.02	"
165-170	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.08	"
170-175	Fault breccia and gouge. Greenish-grey color. Mainly chlorite and sericite.	95	"	Tr	.05	"
175-180	Fault breccia and gouge. Pale green color. Mainly chlorite and sericite.	95	"	Tr	.04	"
180-185	Fault breccia and gouge. Very faint green color.	95	"	.005	.23	"
185-190	" " " " " " " "	35	"	Tr	.03	"
190-195	" " " " Greenish-grey color. Chlorite and sericite.	90	"	Tr	.12	"
195-200	Fault breccia and gouge. " " " Chlorite and sericite.	90	"	Tr	.06	"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% WO3	Oz. Au	% Sb	Size Core
200-205	Fault breccia and gouge. Greenish-grey color. Chlorite and sericite.	70	Nil	.005	.03	Bx
205-210	Fault breccia and gouge. " " " Chlorite and sericite.	70	"	.005	.31	"
210-215	Fault breccia and gouge. " " " Chlorite and sericite.	40	"	.005	.06	"
215-220	Fault breccia and gouge. " " "	95	"	Tr	.02	"
220-225	Fault breccia and gouge. Altered aplite.	10	"	Tr	.01	Bx
225-230	" " " " Black gouge, folleted.	10	"	Tr	.01	"
230-235	" " " " Altered aplite. Sulfides in fractures	10	"	Tr	.03	"
235-240	Fault breccia and gouge. Altered aplite.	15	"	.010	.03	"
240-245	" " " " " "	20	"	.015	.04	"
245-250	Altered aplite with sericite. 249-250' chlorite and sericite.	30	"	.015	.03	"
250-255	No core recovery.	0	"	.010	.01	"
255-260	Completely altered granite and aplite. Some pyrite	10	"	Tr	.02	"
260-265	" " " " " Some proc.	35	"	Tr	.03	"
265-270	Mainly altered aplite and granite. Some fresh fine-grained granite.	95	"	.020	Tr	"
270-275	Granite, some aplite. About 90% altered.	95	"	Tr	.02	"
275-280	" " " " " "	80	"	Tr		"
280-285	" " " " " "	10	"	.005		"
285-290	" " " " " "	100	"	.005	.04	"
290-295	" About 90% altered.	60	"	.005		"
295-300	" " " "	90	"	.005		"
300-305	Altered granite, some aplite.	50	"	.005		"
305-310	Granite, about 90% altered.	100	"	.005	.02	"
310-315	" " " "	85	"	Tr		"
315-320	" " " "	60	"	Tr		"
320-325	Granite and aplite, about 75% altered. Pyrite at 321'.	70	"	.010		"
325-330	Altered granite to 326'; aplite to 328'; fresh fine-grained granite to 330'.	55	"	.010		"
330-335	Fine-grained granite, essentially fresh.	85	"	.005	.01	"
335-340	Altered granite and aplite to 326'; fresh fine-grained granite to 340'.	90	"	.015		"
340-345	Fresh fine-grained granite.	100	"	.005		"
345-350	" " " "	100	"	Tr		"

Diamond Drill Hole No. B-217 - continued

Footage	Description	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
350-355	Altered granite to 351'; fresh fine-grained granite to 355'.	75	Nil	.015		AX
355-360	Fresh fine-grained granite.	90	"	.015		"
360-365	" " " "	80	"	.005	.06	"
365-370	Fresh " " " to 367'; aplite to 368'; partially altered granite to 370'.	95	"	Tr		"
370-371	Fresh fine-grained granite.	95	"	Tr		"

End of hole at 371 feet.

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: June 22, 1953; finished June 30, 1953.

Elevation: 29,288.0 ft

20,282.5 ft

Distance: 6,972.5

Stibnite, Idaho

Diamond Drill Hole No. 2-246

Bearing: S 29° E

Angle: Dip 10°

Page No. 1

Footage	Mineralogy	Recovery	Sb	Au	Size Core
0 - 5	No core	0	No sludge		BX
5 - 10	No core	0	No sludge		"
10 - 15	Brecciated and sericitized aplite.	66	Tr	.009	.07	BX
15 - 20	" " " "	90	"	.013	.22	"
20 - 25	Fault breccia with small amounts stibnite and specks of pyrite	14	"	Tr	.15	"
25 - 30	Fault breccia with small amounts stibnite and specks of pyrite	44	"	.010	.06	"
30 - 35	Fault breccia, sericitized	28	"	.005	.05	"
35 - 40	Fault breccia with some stringers of stibnite	50	"	.005	.12	"
40 - 45	Fault breccia, chloritized and sericitized	"	"	Tr	.15	"
45 - 50	" " " " "	66	"	Tr	.05	"
50 - 55	" " " " "	60	"	.005	.02	"
55 - 60	Brecciated and altered granite with stringers of stibnite and pyrite specks	63	"	.015	.08	"
60 - 65	Brecciated and altered granite with stringers of stibnite and pyrite specks 60-60.5 greenish gray granite; 60.5-62 aplite; 62-70 greenish black and gray granite with abundance of fine grained aplite	92	"	.010	.05	"
65 - 70	Brecciated and altered granite, gray color, pyrite specks and stibnite in cracks	75	"	.015	.30	"
70 - 75	Brecciated and altered granite, stibnite at 72-73 ft. and at 74.5-75 ft.	66	"	.015	1.02	"
75 - 80	Brecciated and altered granite. Good stibnite at 75-76 and 79-80 ft.	42	"	.010	3.96	"
80 - 85	Brecciated and altered granite. Stibnite from 81-83; 83-85 fine grained granite less altered	40	"	.025	1.41	"
85 - 90	Altered granite. Stibnite in veins	58	"	.005	.05	"
90 - 95	" " " " " 90-92 dark gray color; 92-95 medium gray color and brittle	75	"	.010	.20	"
95 - 100	Fault breccia; 95-98.5 white-gray; 98.5-100 dark gray, finer stringers in cracks.	76	"	.020	.17	"

Footage	Lithology	Recovery %	Au oz	Au %	Sb %	Size Core
100-105	Pinkish-grey brecciated and altered granite	90	<.01	.010	.13	BX
105-110	Brecciated and sericitized altered granite, grey	70	"	.015	.15	"
110-115	Mainly sericite and calcite, altered granite. 113-115 altered granite	10	"	.010	.17	"
115-120	115-118 altered granite, brecciated. 118-119.5 calcite granite. 119.5-120 altered granite.	40	"	.015	.10	"
120-125	120-121 brecciated altered granite. 121-125 aplite	56	"	.010	.13	"
125-130	Brecciated granite, bleached and slightly sericitized	13	"	.015	.09	"
130-135	Fault breccia, chloritized and sericitized, very friable	35	"	.005	.08	"
135-140	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	5	"	.005	.09	"
140-145	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	10	"	.005	.09	"
145-150	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	70	"	Tr	.07	"
150-155	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	95	"	.005	.09	"
155-160	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	90	"	Tr	.10	"
160-165	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	10	"	Tr	.13	"
165-170	165-169.5 brecciated granite; 169.5-167.5 dyke with stibnite; 167.5-168.5 altered diorite; 168.5-170 fresh diorite	70	"	.005	.13	"
170-175	Diorite (porphyritic)	72	"	.005	.07	"
175-180	" "	99	"	Tr	.06	"
180-185	180-184 diorite; 184-185 brecciated diorite	71	"	Tr	.05	"
185-190	Slightly brecciated and altered granite with streaks of black sulfides	60	"	.015	.00	"
190-195	190-192 slightly brecciated granite with abundant streaks of sulfides; 192-193 grayish white altered granite; 193-195 brecciated and altered granite, grey color; stibnite in fracture at 194.	90	"	.010	.10	"
195-200	Brecciated and altered granite; stibnite at 197; 197-200 sheared granite	58	"	Tr	.13	All from 199

Footage	Lithology	% Recovery	Wgt	Cu. Au	Sb	Size Core
200-205	200-202 gneissic granite; 202-205 brecciated altered fine grained granite	35	011	Tr	.06	6x
205-210	altered fine grained granite	72	"	.005	.05	"
210-215	210-213 altered granite; 213-214 altered gneissic granite; 214-215 fault breccia	38	"	.010	.11	"
215-220	Fault breccia, chloritized and sericitized	22	"	.005	.03	"
220-225	Highly brecciated rock. Streaks of stibnite. Iron stained quartz	20	"	.030	.04	"
225-230	225-226 white breccia. 226-227 breccia, sericitized and chloritized with stibnite in cracks. 227-228 white breccia with red streak at 228. 228-229.5 greenish chlorite, sericite. 229.5-230 white breccia	90	"	.005	.05	"
230-235	White and pale green brecciated sylite and granite	70	"	.005	.035	"
235-240	Chloritized and sericitized brecciated rock. Black gouge at 235.5	72	"	.005	.045	"
240-245	Mainly gneissic altered granite, partly brecciated	74	"	Tr	.03	"
245-250	245-247, white breccia. 247-250 chloritized and sericitized fault breccia with streaks of reddish (Fe) stained quartz. Some sb streaks in cracks at 245	36	"	.005	.12	"
250-255	250-250.5 sericitized and chloritized breccia. 250.5-252.5 white breccia. 252.5-253 grey breccia and occasional altered gneissic granite. 253-255 fine grained granite, somewhat altered and brecciated. Red streak present. Specks of stibnite and pyrite in crack at 254 ft.	76	"	.005	.04	"
255-260	Slightly altered gneissoid granite. Sericitized in places	89	"	Tr	.02	"
260-265	Slightly altered and bleached gneissoid granite. Sb and pyrite at 260'.	20	"	Tr	.05	"
265-270	Bleached breccia. Mineralized with Sb and pyrite	6	"	Tr	.04	"
270-275	Chloritized and sericitized breccia with some red specks of quartz	12	"	.005	.05	"
275-280	275-279 breccia. 279-280 gneissoid granite, slightly altered	24	"	Tr	.03	"
280-285	280-282.5 gneissoid granite, rather fresh. 282.5-285 altered gneissoid granite; altered 480. Specks of pyrite at 284, red specks.	86	"	Tr	.03	"

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Footage	Lithology	Recovery	Au	Cu, Pb, Zn	Ag	Also Core
285-290	aplite	11	Nil	Tr	.02	15
290-295	291-293 aplite. 293-295 slightly altered porphyritic granite with red specks	13	"	Tr	.03	"
295-300	almost fresh porphyritic granite	14	"	Tr	.03	"
300-305	no core	"	"	Tr	.04	"
305-310	Grayish white breccia, sericitized. Red specks and pyrite specks seen. Some albite stringers	7	"	Tr	.02	"
310-315	White breccia aplite. Slightly tinted red, pink, green	5	"	Tr	.04	"
315-320	" " "	2	"	Tr	.04	"
320-325	" " "	17	"	Tr	.02	"
325-330	" " " specks of pyrite at 327; red quartz at 330	21	"	Tr	.04	"
330-335	" " " medium grain	20	"	Tr	.04	"
335-340	" " " " "	20	"	Tr	.03	"
340-345	Whitish gray breccia, tinge of red at 345, specks of sulfides	32	"	Tr	.03	"
345-350	Whitish gray breccia, stringers of Qz and specks of pyrite	8	"	Tr	.05	"
350-355	Breccia, sericitized and chloritized. Specks of sulfides	30	"	Tr	.04	"
355-360	Badly sericitized breccia, strongly carbonatized, gray	60	"	Tr	.03	"
360-365	Greenish schist, bluish gray. Aplite at 361 - 364	98	"	Tr	.03	"
365-370	" " " aplite (altered) at 366-367	97	"	Tr	.05	"
370-375	" " " "	94	"	Tr	.04	"
375-380	" " " " aplite at 378	68	"	Tr	.06	"
380-385	" " " "	38	"	Tr	.07	"
385-390	" " " "	34	"	Tr	.05	"
390-395	390-391 fault zone, brecciated aplite. 391-395 greenish schist	60	"	.005	.45	61 from 391
395-400	aplite	15	"	Tr	.07	52
400-405	altered fine grain granite	47	"	Tr	.05	"
405-410	405-407 aplite; 407-410 altered schist	16	"	Tr	.06	"
410-415	chloritized and carbonitized schist	30	"	.005	.07	"
415-420	altered and bleached granite	38	"	.005	.04	"
420-423	altered granite	14	"	.010	.06	"
423-430	425-427 pegmatite series. 427-430 bleached and sericitized schist	60	"	.005	.05	"

Footage	Mineralogy	% Recovery	% Pb	Oz. Au	% Zn	Size Core
430-435	430-432 altered schistose granite. 432-435 gneissoid schist	20	Nil	Tr	.05	BX
435-440	Gneissoid schist	96	"	.005	.05	"
440-445	Mainly altered schist see aplite	18	"	.005	.07	"
445-450	Gneissoid schist	70	"	.005	.07	"
450-455	Gneissoid schist, brecciated aplite 454-455	30	"	Tr	.09	"
455-460	Brecciated aplite, altered	24	"	.005	.05	"
460-465	Brecciated aplite, mineralized in places	48	"	.005	.05	"
465-470	Gneissoid schist	80	"	.020	.04	"
470-475	Gneissoid schist, slightly bleached at 470-471	30	"	.005	.00	"
475-480	Slightly altered fine grained granite (30% alteration) to 479. 479-480 gneissoid schist	50	"	.010	.03	"
480-485	Gneissoid schist	20	"	.005	.05	"
485-490	Gneissoid schist (bleached slightly)	48	"	.005	.06	"
490-495	" " " "	52	"	.005	.05	"
495-500	Altered granite and gneissoid schist. Aplite at 500'	30	"	.005	.04	"

End of hole at 500 feet

Note: all assays are single assays. All values of Pb determined by longing. All core was sluiced lanced.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/6/59 - finished 7/17/59

Elevation: 24,593 ft

20,391 ft

Distance: 4,073

[illegible]

[illegible] 1[illegible]

Diamond drill hole No. [illegible]-217

Dip: 0 65° S

Inclination: about 10°

Page 1

Feetage	Mineralogy	% Recovery	% 1	Oz. Au	% Sb	Size Core
0 - 5	Brecciated & altered granite with stringers of fine-grained sulfides	6	All	0.015	0.06	EX
5 - 10	Brecciated & altered granite with stringers of fine-grained sulfides	60	"	0.005	.04	"
10 - 15	Brecciated granite, mineralized with minor stibnite and specks of pyrite	22	"	.010	.04	from 11' EX
15 - 20	Mineralized granite and aplite with fine-grained pyrite and minor stibnite	8	"	.035	.03	"
20 - 25	Fractured aplite with fine-grained pyrite and minor stibnite	8	"	.020	.06	"
25 - 30	25-26, aplite with stringers of stibnite and pyrite. 26-30, fault breccia with sericite and chlorite. Stringers of stibnite in places	66	"	.010	.05	"
30 - 35	Fault breccia with sericite and chlorite. Stringers of stibnite in places	48	"	.020	.05	"
35 - 40	35-36, fault breccia with sericite and chlorite. Stringers of stibnite in places 36-40, altered dacite dike	15	"	.005	.05	"
40 - 45	altered dacite dike	52	"	.005	.05	"
45-50	partly altered dacite dike	65	"	.015	.05	"
50 - 55	" " "	100	"	Tr	.06	"
55 - 60	Slightly altered granite	90	"	Tr	.10	"
60 - 65	60-63' fresh granite; 63-65 slightly altered granite, specks of sulfides	70	"	Tr	.12	"
65-70	Fresh granite	52	"	.005	.06	"
70-75	Altered granite with minor stibnite and specks of pyrite	70	"	.005	.07	"
75 - 80	Altered granite with minor stibnite & specks of pyrite	40	"	.005	.05	"
80 - 85	80-81' altered granite. 81-85' also bedded, chloritized. Breccia at 85	45	"	Tr	.04	"
85 - 90	Also bedded	56	"	Tr	.07	"
90 - 95	Also bedded, brecciated from 91 to 92 ft.	76	"	Tr	.06	"
95 -100	Also bedded, brecciated & chloritized. Quartz at 95.	30	"	Tr	.04	"

Footage	Stratigraphy	% Recovery	% HCl	% Ca. CO	% Sb	Also Pure
100-105	Mica schist, brecciated and chloritized	16	Nil	Tr	.06	Nil
105-110	105-108 mica schist, brecciated and chloritized, 108-110 altered granite, stream of sulfides in areas	76	"	Tr	.05	"
110-115	Mica schist, brecciated	45	"	Tr	.03	"
115-120	115-116 mica schist, 116-120 brecciated mica schist	15	"	Tr	.27	"
120-125	Fault breccia, completely altered, mainly white colored, soft	94	"	Tr	.04	"
125-130	Fault breccia, completely altered, mainly white colored, soft. Schistose 128-130'	80	Nil	Tr	.04	"
130-135	Fault breccia, completely altered, mainly white colored, soft	70	"	Tr	.05	"
135-140	Fault breccia, completely altered, mainly white colored, soft	85	"	Tr	.05	"
140-145	Fault breccia, completely altered, mainly white colored, soft	78	"	.005	.04	"
145-150	Fault breccia, completely altered, mainly white colored, soft	18	"	Tr	.04	"
150-155	Fault breccia, completely altered, mainly white colored, soft	40	"	Tr	.04	"
155-160	Fault breccia, completely altered, mainly white colored, soft. Minor sulfides at 159'.	50	"	Tr	.04	"
160-165	Fault breccia, completely altered, mainly white colored, soft	25	"	Tr	.04	"
165-170	Fault breccia, completely altered, mainly white colored, soft	65	"	Tr	.04	"
170-175	Altered granite	8	"	Tr	.03	"
175-180	" " 178-180' sericite dike	74	"	Tr	.07	"
180-185	Sericite dike	70	"	Tr	.06	All from
185-190	Brecciated sericite 185-190', fault breccia, greenish	65	"	Tr	.03	" 192'
190-195	Fault breccia, completely altered, greenish color, amount schistose	50	"	.005	.03	"
195-200	Fault breccia, completely altered, greenish color, somewhat schistose	14	"	Tr	.04	"
204-205	Fault breccia, completely altered, greenish color, somewhat schistose	60	"	Tr	.05	"
205-210	Fault breccia, completely altered, greenish color, somewhat schistose	62	"	Tr	.04	"

Footage	Mineralogy	% Recovery	% SO_3	Cu. %	Pb %	Size Core
210-215	Fault breccia, green & reddish to 211, white to 219	77	Nil	Tr	.03	AX
215-220	" " white colored	15	"	Tr	.02	"
220-225	" " " " . Specks of sulfides	10	"	Tr	.02	"
225-230	" " " "	30	"	Tr	.02	"
230-235	" " " " . Specks of sulfides	40	"	Tr	.03	"
235-240	" " " " to 237, completely altered granite and aplite to 240'. Specks of sulfides.	12	"	Tr	.02	"
240-245	Completely altered granite and aplite	12	"	Tr	.04	"
245-250	No core recovery	0	"	Tr	.03	"
250-255	" " "	0	"	Tr	.04	"
255-260	" " "	0	"	Tr	.05	"
260-265	" " "	0	"	Tr	.04	AX Core
265-270	Completely altered granite and aplite	10	"	Tr	.03	" 2nd
270-275	Granite & aplite, about 75% altered. Very minor sulfides	48	"	Tr	.04	"
275-280	" " " " " "	25	"	Tr	.02	"
280-285	" " " " " "	28	"	Tr	.02	"
285-290	" " " " " "	15	"	Tr	Tr	"
290-291	" " " " " "	15	"			

End of hole at 291 feet.

Note: All assays are sludge assays. All values of Pb predetermined by lead. All core and sludges logged.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/21/53; Finished 7/26/53.

COORDINATES: 30,182.6 N

19,516.5 E

ELEVATION: 6,366.3

Wesley Tin Mine
Grants, N.M.

DIAMOND DRILL HOLE NO. B-220

BEARING: S 3° 59' E

INCLINATION: Minus 60°

Page 1

Footage	Mineralogy	Recovery %	WO3 %	Oz. Au	% Sb	Size Core
0 - 20	Overburden, granitic soil and weathered granite boulders					NX
20 - 25	" " " " " " "		All	Tr	.01	"
25 - 30	" " " " " " "		"	Tr	.01	"
30 - 35	" " " " " " "		"	Tr	.01	"
35 - 40	Bedrock at 35'. Intensely weathered granite	29	"	Tr	.01	"
40 - 45	Intensely weathered granite	38	"	Tr	.01	"
45 - 50	" " "	28	"	Tr	.02	"
50 - 55	50-51, weathered granite as above. 51-55, fresh granite with limonite along fractures	75	"	Tr	.02	"
55 - 60	Fresh granite, limonite in fractures	94	"	Tr	.02	"
60 - 65	" " " " " , slight alteration from 64-65	68	"	Tr	.02	NX
65 - 70	Altered granite (40% alteration). Limonite along fractures. Some streaks of sulfides at 68'. Aplite 69-70'	62	"	Tr	.02	"
70 - 75	Altered granite and aplite (40% altered) with limonite and some streaks of sulfides in fractures	35	"	Tr	.02	"
75 - 80	Aplite, slightly brecciated and thoroughly stained with iron oxides. Limonite along fractures	36	"	Tr	.02	"
80 - 85	Aplite, iron stained, limonite along fractures. Streaks of sulfides along some fractures	45	"	Tr	.02	"
85 - 90	Aplite with streaks and specks of sulfides along fractures. Some limonite at 90.	79	"	Tr	.02	"
90 - 95	Aplite, streaks and specks of sulfides along fractures	52	"	Tr	.02	"
95 -100	Aplite. Streaks of sulfides along some fractures	58	"	Tr	.02	"
100-105	Aplite. Specks of sulfides along fracture at 101 only	52	"	Tr	.02	"
105-110	Aplite. Streaks and specks of sulfides and specks of pyrite at 107	74	"	Tr	.01	"
110-115	Aplite. Specks of sulfides at 111	58	"	Tr	.01	NX from 113
115-120	Aplite. Streaks of sulfides in fracture at 120	14	"	Tr	.01	"
120-125	Aplite and slightly altered granite	30	"	Tr	.02	"

Footage	Mineralogy	% Recovery	% Sol	Oz. Au	% Sb	Size Core
125-130	125-127½, altered granite. 127½-130, aplite. Streaks and specks of sulfides	62	Nil	Tr	.01	2K
130-135	Aplite, streaks of sulfides	15	"	Tr	.01	"
135-140	Somewhat altered granite	16	"	Tr	.01	"
140-145	Aplite	7	"	Tr	.01	"
145-150	Aplite, specks of sulfides	34	"	Tr	.02	"
150-155	Aplite	36	"	Tr	.02	"
155-160	Aplite, streaks and specks of sulfides at 160	54	"	Tr	.02	"
160-165	Aplite, " " " " "	40	"	Tr	.02	"
165-170	Altered granite, streaks of sulfides	57	"	Tr	.02	"
170-175	Altered granite (60%), specks of sulfides	15	"	Tr	.02	"
175-180	175-178 altered granite with streaks of sulfides. 178-180 aplite	85	"	Tr	.04	"
180-185	Aplite, some altered granite	32	"	.005	.04	"
185-190	" " " "	58	"	Tr	.04	"
190-195	" " " " . Sulfides along fractures	48	"	Tr	.02	"
195-200	" " " "	54	"	Tr	.02	"
200-205	" " " "	58	"	Tr	.02	"
205-210	" , breccia and gouge 209-210	32	"	.010	.02	"
210-215	"	50	"	Tr	.04	"
215-220	215-218, aplite. 218-220 partially (25%) altered granite	82	"	Tr	.04	"
220-225	Partially (25%) altered granite	60	"	Tr	.04	"
225-230	Essentially fresh granite. Aplite at 226 & 230	56	"	Tr	.01	"
230-235	230-233, aplite. 233-235, fresh granite	45	"	Tr	.01	"
235-240	Mainly fresh granite	56	"	Tr	.01	"
240-245	240-243, aplite. 243-245, partially (20%) altered granite	58	"	Tr	.17	"
245-250	245-247, aplite. 247-250, altered (40%) granite	38	"	Tr	.17	"
250-255	Altered (60%) granite. Specks and streaks of sulfides	15	"	Tr	.17	"
255-260	" " " " " " " "	15	"	.005	.03	"
260-265	Fresh granite	78	"	Tr	.03	"
265-270	" " to 267, aplite to 270	67	"	Tr	.03	"
270-275	Aplite to 271, fresh granite to 273, slightly altered (25%), granite to 275	56	"	.005	.02	"
275-278	Fresh granite	78	"	.005	.02	"

End of hole at 278 feet

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Note: All assays are sludge assays. All values of Mo_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/31/53; finished 8/8/53

COORDINATES: 30,175.0 E

19,309.7 S

ELEVATION: 6,367.0

[illegible] BRG

[illegible]

DIAMOND DRILL HOLE NO. [illegible]-721

BEARING: S 63° 16' E

INCLINATION: Minus 60°

Page 1

Footage	Mineralogy	% Recovery	Mo	Cu	Zn	Also Core
0 - 3	Overburden	0				Nil
3 - 15	"	0	Nil	Tr	.01	"
10 - 15	"	0	"			"
15 - 20	Bedrock at 15', no core recovery	0	"			"
20 - 25	Intensely weathered granite	30	"			"
25 - 30	" " "	92	"	Tr	.01	"
30 - 35	Somewhat altered granite (30% altered) weathered along fractures	92	"			"
35 - 40	Somewhat altered granite (30% altered) weathered along fractures	70	"			Nil
40 - 45	35-41½ granite, stained with limonite along fractures. 41½-45 mainly aplite, limonite along fractures.	96	"	Tr	.02	"
45 - 50	Altered (30% alteration) granite and aplite, stained with limonite	83	"			"
50 - 55	Aplite, iron stained along fractures	70	"			"
55 - 60	" " " " "	100	"	Tr	.01	"
60 - 65	Altered (30%) granite, limonite along fractures	90	"			"
65 - 70	" " " " "	95	"			"
70 - 75	Somewhat altered aplite, minor granite	90	"	.005	.02	"
75 - 80	" " "	90	"			"
80 - 85	" " "	80	"			"
85 - 90	" " " , some streaks of sulfides	95	"	.005	.01	"
90 - 95	90-92 aplite, 92-95 altered (30%) granite, minor sulfides in fractures	90	"			"
95 -100	Altered (30%) aplite and granite	80	"			"
100-105	Altered (30%) granite	85	"	.005	.02	"
105-110	" " "	80	"			"

Feetage	Discription	Recovery %	Size Core
110-115	Altered (30%) granite	92	NX
115-120	" " "	94	"
120-125	" " "	80	"
125-130	" " "	80	"
130-135	" " "	50	"
135-140	" " "	82	"
140-145	" " " to 143. Fresh granite to 145.	97	"
145-150	Fresh granite, some aplite	94	"
150-155	" " " " . Altered (10%) granite 152-154	42	"
155-160	155-156 slightly altered granite; 156-160 aplite	96	"
160-165	Altered (30%) granite, some aplite	56	"
165-170	Granite, some aplite. Granite varies from fresh to altered (30%)	95	"
170-175	Granite, some aplite. Granite varies from fresh to altered (30%)	95	"
175-180	175-178 fresh granite; 178-180 aplite	70	"
180-185	Aplite	60	"
185-190	Granite, some aplite. Granite varies from fresh to altered (30%)	94	"
190-195	Altered granite (30%)	70	"
195-200	Altered granite (30%), some fresh granite & aplite	92	"
200-205	Mainly altered granite (30%), some fresh granite	66	"
205-210	Essentially fresh granite, minor areas of alteration	60	"
210-215	Fresh granite	79	"
215-220	Somewhat altered (30%) granite and aplite	64	"
220-225	" " " " " "	18	"
225-230	" " " "	36	"
230-235	" " " "	58	"
235-240	" " " " . Seams of sulfides		
	Along fractures	44	"

Feetage	Mo %	Cu %
110-115	Tr	.03
125-130	.005	.01
140-145	Tr	.01
155-160	Tr	.02
170-175	Tr	.02
195-200	Tr	.03
230-235	Tr	.02

Footage	Mineralogy	% Recovery	% Mo	Oz. Au	% Cu	Size Core
240-245	aplite, some altered (30%) granite	84	211			6A
245-250	245-246½, aplite; 246½-250 fault breccia & gouge	95	"	Tr	.01	"
250-255	Altered granite (50% altered). Brecciated from 250-251½	90	"			"
255-260	255-257½ altered (30%) granite. 257½-260 aplite	40	"			"
260-265	altered (30%) granite	80	"	Tr	.02	"
265-270	altered (30%) granite and aplite	50	"			"
270-275	" " " " "	50	"			"
275-280	" " " " "	60	"			"
280-285	" " " " "	44	"	Tr	.01	"
285-290	" " "	50	"			"
290-295	" " "	40	"	Tr	Tr	"
295-300	" " "	40	"			"
300-305	" " "	52	"			"
305-310	" " " from 305-307. aplite from 307-310. Sulfide stringers in some fractures	42	"	Tr	.02	6A
310-315	altered (30%) granite	9	"			"
315-320	" " "	11	"			"
320-325	" " "	54	"	Tr	.02	"
325-330	" " "	15	"			"
330-335	aplite	63	"	Tr	.03	"
335-340	slightly altered (20% alt.) granite	37	"			"
340-345	fresh granite	50	"			"
345-350	" "	59	"	Tr	.02	"
350-355	" "	52	"			"
355-356	" " and aplite	40	"	Tr	.03	"

End of hole at 356 feet.

Asterisk assays are sludge assays. All values of Au determined by lead. All core and sludges leached.

Hole drilled by Langlois and Thompson Core Drilling Co.
Date started: 6/7/53; finished 6/30/53

COORDINATES: 23,937.0 N

20,019.3 E

ELEVATION: 6,525.7

[illegible] MINE
[illegible], YUKON

DIAMOND DRILL HOLE NO. 80-1

BEARING: S 61° 42' E

INCLINATION: Plus 1°

Page 1

Footage	Mineralogy	% Recovery	% MoS	Oz. Au	% Sb	Size Core
0 - 5	Chloritized mica schist	67	No sludge sample			BX
5 - 10	" " "	47	" " "			"
10 - 15	" " "	45	" " "			BX Core
15 - 20	" " "	50	Nil	.015	.10	" 12
20 - 25	" " "	37	"	.005	.12	"
25 - 30	" " "	24	"	.020	.05	"
30 - 35	30-32, as above. 32-34, brecciated & silicified granitic rock, with antimony mineralization. 334-335' chloritized mica schist	28	"	.050	.08	"
35 - 40	35-37', chloritized mica schist. 37-40' brecciated, completely altered granite, well mineralized with sulfides	32	"	.015	.06	"
40 - 45	Aplite with antimony stringers, pyrite specks	36	"	.020	.09	"
45 - 50	Aplite. Some antimony crusts in cracks	38	"	.020	.16	"
50 - 55	50-51, aplite, with sulfide mineralization. 51-55, mica schist	45	"	.005	.08	"
55 - 60	55-56, mica schist. 56-60, aplite - brecciated at 60	96	"	.005	.05	"
60 - 65	60-64, aplite, mineralized with Sb at 64. 64-65 chloritized mica schist	60	"	.020	.06	"
65 - 70	Chloritized mica schist	88	"	.005	.17	"
70 - 75	70-73, chloritized mica schist. 73-75, breccia with black Sb mineralization	20	"	.005	.21	"
75 - 80	Completely altered granite, well mineralized. Some aplite	55	"	.010	.13	"
80 - 85	" " " " " " "	24	"	.010	.05	"
85 - 90	" " " " " " "	25	"	.010	.12	"
90 - 95	90-91, mica schist. 91-95 completely altered granite, well mineralized with sulfides	52	"	.015	.13	"
95 -100	Completely altered granite, well mineralized with sulfides	48	"	.025	.13	"
100-105	" " " " " " "	30	"	.025	.12	"
105-110	" " " " " " "	46	"	.025	.13	"

Diamond Drill Hole No. FC-1 - page 2

Footage	Mineralogy	% Recovery	% MoS	Oz. Au	% Sb	Size Core
110-115	Well mineralized aplite and altered granite	41	Nil	.005	.06	AX
115-120	Mica schist	100	"	Tr	.08	"
120-125	120-123, mica schist. 123-124, aplite. 124-125, mica schist	62	"	.005	.04	"
125-130	Mica schist	100	"	Tr	.05	"
130-135	130-131, mica schist. 131-133½ aplite with specks of pyrite. 133½-135, mica schist	63	"	.005	.06	"
135-140	135-138, mica schist. 138-140 altered aplite	96	"	Tr	.06	"
140-145	140-142 very slightly altered granite. 142-144, aplite, 144-145 mica schist	64	"	Tr	.06	"
145-150	Mica schist. Aplite at 148, gouge at 150	50	"	.005	.08	"
150-155	150-151 slightly altered granite. 151-152 mica schist. 152-155 aplite and altered granite, strongly mineralized	72	"	.025	.29	"
155-160	Mineralized aplite, some altered granite	42	"	.010	.12	"
160-165	Slightly altered (160) granite and aplite	86	"	Tr	.04	"
165-170	Mainly aplite, some altered granite, somewhat mineralized	40	"	.005	.03	"
170-175	Mainly aplite, some altered granite, somewhat mineralized	66	"	.005	.06	"
175-180	Brecciated aplite, slightly mineralized. Some fresh granite	34	"	Tr	.04	"
180-185	180-182, mica schist. 182-184 aplite. 184-185 mica schist	35	"	.005	.04	"
185-190	Mica schist	30	"	Tr	.11	"
190-195	Aplite	20	"	.005	.06	"
195-200	195-196½, essentially fresh granite; 196½-198, mica schist; 198½-200, aplite with some fresh granite	100+	"	.005	.06	"
200-205	Mainly fresh granite, some areas of alteration. Abundant pyrite specks at 205	84	"	.010	.07	"
205-210	205-208, serpentized breccia. 208-210, mica schist	36	"	.005	.07	"
210-215	210-213, mica schist. 213-215 altered granite with abundant pyrite specks	32	"	Tr	.05	"
215-220	215-217, altered mica schist. 217-220 mica schist	60	"	.005	.10	"
220-225	Mica schist	55	"	.032	.12	"
225-230	225-227, mica schist. 227-230 aplite	52	"	.010	.08	"
230-235	230-232, mica schist. 232-234½, aplite. 234½-235 mica schist	75	"	.010	.05	"
235-240	235-236½, mica schist. 236½-239 aplite. 239-240 mica schist	100	"	.010	.05	"

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Diamond Drill Hole No. DC-1 - page 3

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
240-245	Mica schist	38	#11	.035	.07	AX
245-250	" "	100	"	.015	.05	"
250-255	" "	84	"	.010	.06	"
255-260	" "	65	"	.005	.05	"
260-265	Fresh Granite	60	"	.005	.09	"
265-270	265-267½, fresh granite; 267½-268½, aplite; 268½-270, granite, some alteration	92	"	.010	.09	"
270-275	Fresh granite; gneissoid	23	"	.005	.10	"
275-280	" " "	100	"	.005	.05	"
280-285	" " "	80	"	.005	.14	"
285-290	" " "	65	"	.005	.11	"
290-295	" " "	70	"	.020	.16	"
295-300	295-296, fresh gneissoid granite; 296-299 altered and mineralized granite; 299-300, fresh granite	92	"	.020	.17	"
300-305	Fresh granite; gneissoid	76	"	.005	.11	"
305-310	altered and brecciated granite and aplite; mineralized with Sb and pyrite	70	"	.020	.06	"
310-315	Altered, mineralized granite, some aplite	100+	"	.030	.12	"
315-320	Completely altered granite and aplite, well mineralized with sulfides	74	"	.040	.11	"
320-325	Completely altered granite and aplite, well mineralized with sulfides	100	"	.035	.08	"
325-330	Completely altered granite and aplite, well mineralized with sulfides	100	"	.040	.10	"
330-335	Completely altered granite and aplite, well mineralized with sulfides	76	"	.025	.06	"
335-340	Completely altered granite and aplite, well mineralized with sulfides	94	"	.030	.17	"
340-345	Completely altered granite and aplite, well mineralized with sulfides	90	"	.030	.14	"
345-350	Altered granite, some sulfide mineralization. Black gouge at 346	50	"	.010 ~~.030~~	.04 ~~.14~~	"
350-355	Altered granite, some fresh areas	60	"	.005	.04	"
355-360	355-357, fresh granite and aplite with pyrite specks; 357-358, gneissoid granite; 358-360, fresh granite	84	"	.005	.05	"
360-365	360-364, fresh granite; 364-365, aplite with streaks of Sb and specks of pyrite	68	"	.005	.06	"

Footage	Mineralogy	Recovery	Wo3	Sn	As	Sb	Size Core
365-370	365-367 aplite with streaks of sb and pyrite specks. 367-370, fresh granite (patch of aplite at 370)	92	Nil	.015	.08		AX
370-375	Aplite and completely altered granite. Some brecciation and gouge	68	"	.005	.03		"
375-380	375-378 somewhat altered granite. 378-380, aplite	18	"	.010	.05		"
380-385	380-381½, aplite. 381½-385 slightly altered granite	52	"	.005	.06		"
385-390	Mainly fresh granite. Patch of aplite at 386.	20	"	.005	.03		"
390-395	Fresh granite, rich in ferromagnesian minerals	95	"	.005	.06		"
395-400	" " " " " "	100	"	.005	.08		"
400-405	" " " " " "	100	"	.010	.04		"
405-410	" " " " " "	76	"	Tr	.04		"
	Aplite 405-407						
410-415	Fresh granite, rich in ferromagnesian minerals, aplite 412-414	100	"	.015	.05		"
415-420	Fresh granite, rich in ferromagnesian minerals to 416. Aplite and minor granite 416-420	75	"	.005	.05		"
420-425	Fresh granite and aplite	95	"	.010	.06		"
425-430	Fresh granite	95	"	.010	.04		"
430-435	Granite, 405 altered to 431, fresh gneissoid granite to 435.	95	"	.010	.03		"
435-440	Predominantly fresh gneissoid granite, some patches of alteration	100	"	.005	.05		
440-445	Altered gneissoid granite with streaks of sb mineralization and specks of pyrite	90	"	.010	.08		"
445-450	Altered (slightly) gneissoid granite with patches of aplite	95	"	.010	.09		"
450-455	Fresh gneissoid granite	80	"	.010	.11		"
455-460	Fresh gneissoid granite, some patches of alteration	98	"	.005	.05		"
460-465	460-463, fresh gneissoid granite. 463-465' aplite	70	"	.010	.05		"
465-470	465-466' aplite. 466-470 gneissoid granite, altered 468-469	100	"	.005	.24		"
470-475	Fresh gneissoid granite	70	"	.010	.08		"
475-476	" " "						
	End of hole at 476 feet						

Note: All assays are sludge assays. All values of WO3 determined by leaching.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/12/53; finished 7/29/53

COORDINATES: 25,968.5 S
19,683.6 E

ELEVATION: 6,524.4

Yellow Pine Mine
Stibnite, Idaho

DIAMOND DRILL HOLE NO. 72 - 2

BEARING: S 52° 34' W

INCLINATION: Minus 18°

Page 1

Footage	Mineralogy	% Recovery	% 100	Oz. Au	% Sb	Size Core
0 - 5	aplite	100				NX
5 - 10	5-7, aplite; 7-10 fresh granite	100	Nil	Tr	0.02	BX from 6
10 - 15	Fresh granite	96	"	"	0.01	BX
15 - 20	" "	100	"	.005	0.01	"
20 - 25	20-23 aplite; 23-25 fresh granite	100	Tr	Tr	0.01	"
25 - 30	25-27 fresh granite; 27-30 aplite, iron oxide stained	74	Tr	Tr	Tr	"
30 - 35	30-32 aplite; stained with iron oxide. 32-33 fresh granite; 33-35 aplite, iron stained	48	Nil	Tr	0.02	"
35 - 40	Iron stained aplite	60	"	Tr	0.02	"
40 - 45	40-42, aplite, iron stained. 42-45, fresh granite	60	"	Tr	0.02	"
45-50	45-47, fresh granite; 47-50, aplite	96	"	Tr	0.01	"
50 - 55	Aplite, limonite in cracks	63	"	Tr	0.02	"
55 - 60	" " " "	70	"	"	0.02	"
60 - 65	Mainly aplite, fresh granite at 63 ft.	94	"	"	0.02	"
65 - 70	" " , stained with iron oxides	94	"	"	0.02	"
70 - 75	Fresh granite, minor aplite	72	"	"	0.04	"
75 - 80	75-77, very slightly altered granite; 77-78½, aplite; 78½-80, fresh granite	86	"	"	0.04	"
80 - 85	Fresh granite	84	"	"	0.04	"
85 - 90	85-88, iron stained aplite; 88-90, fresh granite	70	"	"	0.01	"
90 - 95	Aplite, brecciated at 91	70	"	"	0.03	"
95 -100	95-96½-aplite; 96½-97½, brecciated aplite, white color; 97½-100, aplite	100	"	"	0.02	"
100-105	Brecciated aplite	72	"	"	0.03	"
105-110	105-107, aplite; 107-110, very slightly altered granite	60	"	"	0.03	"
110-115	Very slightly altered and fractured granite	18	"	"	0.03	"
115-120	115-116, aplite; 116-119, very slightly altered granite; 119-120, aplite	80	"	"	0.05	"
120-125	120-122 breccia and gouge; 122-124½, leucophyro dike	66	"	"	0.03	"
125-130	Altered granite and aplite (50% altered)	70	"	"	0.01	"
130-135	Somewhat altered (25%) aplite and granite	35	"	"	0.01	"
135-140	" " " " " "	60	"	"	0.01	"
140-145	Aplite	28	"	"	& Tr	"

Footage	Mineralogy	% Recovery	% Mo S	Cu	Au	% Sb	Diso Core
145-150	aplite	19	nil	Tr		Tr	nil
150-155	Fault breccia and sand, light gray color	5	"	"		"	"
155-160	" " " " " " "	15	"	"		0.03	"
160-165	" " " " " " " to 164'; aplite, 164-165'	19	"	"		0.03	"
165-170	aplite and slightly altered granite	12	"	"		0.03	"
170-175	Fresh granite	23	"	"		0.03	"
175-180	Granite and aplite, some alteration and brecciation	10	"	"		0.03	"
180-185	" " " " " " "	8	"	"		0.03	"
185-190	Slightly altered granite	14	"	"		0.03	"
190-195	" " "	7	"	"		0.03	"
195-200	" " "	2	"	"		0.02	"
200-205	No core recovery	0	"	Tr		0.02	"
205-210	Lamprophyre dike, sample at 205-207	60	"	"		0.02	"
210-215	" "	60	"	"		0.02	"
215-220	215-217 lamprophyre dike; 217-220, fresh granite	28	"	"		0.02	"
220-225	Fresh granite	46	"	"		0.02	"
225-230	" " and some aplite	90	"	"		0.02	"
230-235	" "	56	"				"
235-240	" "	62	"	"		0.05	"
240-245	" "	100	"				"
245-250	" "	38	"				"
250-255	Somewhat altered granite (25% alt.). Silicification and fine grained sulfides at 252'	52	"	"		0.04	"
255-260	Somewhat altered granite (25% alt.)	100	"				"
260-265	Fresh fine-grained granite and aplite	60	"				"
265-270	Fresh granite, some aplite	74	"	"		0.04	"
270-275	270-273, fresh granite; 273-275, altered (30%) granite	100	"				"
275-280	Altered granite (30% alt.)	30	"				"
280-285	Fresh granite, minor patches of alteration	12	"	"		0.02	"
285-290	" " " " " "	30	"				"
290-295	" " " " " "	83	"	"		Tr	"
295-300	Aplite, minor granite. Some alteration	78	"	"		0.04	"
→300-310	Fresh granite	10	"				nil
→305-309	Aplite, minor granite. Some alteration. Fresh granite 306-309	10	"	"		0.01	"
310-315	Fresh granite	20	"				"

Footage	Mineralogy	% Recovery	% S	Oz. Au	% Sb	Size Core
315-320	Fresh Granite	23	nil			EE
320-325	aplite and fine-grained fresh granite	48	"	Tr	0.02	"
325-330	Fresh granite. Core 328-330	10	"			"
330-335	Fresh granite, core aplite	17	"			"
335-340	" " " "	25	"	"	0.05	"
340-345	" " " " Altered granite with fine-grained sulfides at 345'	36	"	"		"
345-350	Altered granite (75% alt.)	6	"			"
350-355	aplite and altered granite to 354', fresh granite 354-355'	30	"	"	0.04	"
355-360	Fresh granite	64	"			"
360-365	" "	58	"			"
365-370	fine grain granite - fresh	33	"	"	0.02	"
370-375	" " "	50	"			"
375-380	" " "	44	"	"	0.04	"
380-385	Fresh granite	73	"			"
385-390	" "	70	"	"	0.04	"
390-395	" " , fine grained	70	"			"
395-400	Fine grained granite and aplite	15	"	"	0.01	"
400-405	Fresh granite	34	"			"
405-410	" "	86	"			"
410-415	" "	76	"	"	0.04	"
415-420	" "	70	"			"
420-425	" "	90	"			"
425-430	" "	60	"	.005	0.03	"
430-435	" "	56	"			"
435-440	" "	46	"			"
440-445	" "	32	"	Tr	0.05	"
445-450	" "	52	"			"
450-455	" "	46	"			"
455-460	" "	25	"			"
460-465	" "	30	"	Tr	0.03	"
465-470	" "	28	"			"
470-475	" "	5	"			"

End of hole at 475 feet

Note: All assays are single assays. Trace and nil values of Ag determined by lead fire. All core and cuttings logged.

Hole drilled by Lisbois & Thayer Core Drilling Co.
Date started: 7/30/51 - finished 8/20/51.

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COORDINATES: 19,952.1 N
20,419.4 E

ELEVATION: 6,546.5

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. DC-55

BEARING: S 47° 22' E

INCLINATION: Minus 50°

PAGE 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -100	Overburden. Fresh granite boulders and gravel. Iron stained along fractures		TR			
100-105	Bedrock at 100 ft. Fresh granite. Iron stained along fractures.	40	Nil			BX
105-110	Fresh granite. Iron stained along fractures	70	"	.005	.05	"
110-115	" " " " " "	60	"			"
115-120	" " " " " "	66	"			"
120-125	" " " " " "					
	aplite 123-124'	28	"			"
125-130	Fresh granite. " " " "	60	"			"
130-135	" " " " " "	45	Tr	.005	.03	"
135-140	" " " " " "	55	Nil			"
140-145	" " " " " "	55	"			"
145-150	Altered granite & aplite, fine grained sulfides in fractures 145 to 147'. Fresh granite 147 to 150'	40	"			"
150-155	Fresh granite. Iron stained along fractures	45	Tr	.005	.03	"
155-160	Fresh granite to 156'. Aplite 156 to 160'. Iron stained along fractures	45	Nil			"
160-165	Fresh granite. Iron stained along fractures	80	Tr	.005	.06	"
165-170	" " " " " "	90	Tr	Tr	.06	"
170-175	" " " " " "	100	Nil	.005	.04	"
175-180	Fresh granite to 178'. Completely altered granite with sulfide veners in fractures 176 to 180'	75	"	.005	.07	"
180-185	Completely altered aplite and granite with fine grained sulfides	10	"	.045	.06	"
185-190	Completely altered granite with fine grained sulfides	90	"	.045	.14	"
190-195	" " " " " " "	25	"	.030	.07	"
195-200	" " " " " " "	30	"	.010	.06	"
200-205	Fresh granite	50	"			"
205-210	" "	85	"			"
210-215	" "	35	"	.005	.07	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
215-220	Fresh granite	5	Nil			BX
220-225	Aplite and granite. Very slightly altered	60	"			"
225-230	Fresh granite. Aplite with fine grained sulfides 226 to 227'	50	"			"
230-235	Fresh granite.	65	"			"
235-240	" "	55	"	.010	.05	"
240-245	Aplite. Very minor fine grained sulfides	40	"			"
245-250	Fresh granite to 247'. Partially altered (60% alt.) granite with fine grained sulfides 247 to 250'	55	"			"
250-255	Altered granite with fine grained sulfides	5	"			"
255-260	Partially altered granite (50% alt.) to 257'. Fresh granite 257 to 260'	50	"	.030	.14	"
260-265	Altered granite with fine grained sulfides	35	"			"
265-270	Granite: fresh 265-266'; altered 266-267'; fresh 267-270'	95	"			"
270-275	Fresh granite to 273'. Altered granite with fine grained sulfides 273-275'	60	"			"
275-280	Altered granite with fine grained sulfides. Brecciated 278 to 280'	90	"			"
280-285	Aplite with fine grained sulfides to 284'. Fresh granite 284 to 285'	60	"			"
285-290	Fresh granite	55	"	.030	.06	"
290-295	Fresh granite to 292'. Altered granite with fine grained sulfides 292-293'. Fresh granite 293 to 295'	95	"			"
295-300	Mixed fresh and altered granite and aplite	90	"			MX from 297'
300-305	Fresh granite to 302'. Altered granite with fine grained sulfides 302 to 305'	85	"	.010	.06	BX
305-310	Completely altered granite with fine grained sulfides	70	"	.030	.13	"
310-315	" " " " " " "	55	"	.030	.12	"
315-320	" " " " " " "	70	"	.115	.17	"
320-325	" " " " " " "	80	"	.135	.06	"
325-330	" " " " " " "	70	"	.050	.12	"
330-335	" " " " " " " Fresh granite 332-333'	40	"	.040	.05	"
335-340	Completely altered granite with fine grained sulfides. Brecciated, soft	20	"	.035	.08	"

Footage	Mineralogy	% Recovery	% MoS2	Oz. Au	% Sb	Size Core
340-345	Completely altered granite with fine grained sulfides. Brecciated, soft	5	Nil	.015	.16	4X
345-350	Mineralized aplite	10	"	.015	.12	"
350-355	Altered granite with fine grained sulfides. Patches of fresh granite	25	Tr	.030	.04	"
355-360	No core recovery	0	Nil	.040	.07	"
360-365	Aplite	20	"	.040	.07	"
365-370	Essentially fresh granite. Aplite 369-370'	95	"	.020	.06	"
370-375	Aplite. Patches of fresh granite	65	Tr	.015	.05	"
37[illegible]-380	Granite, essentially fresh	55	Nil			"
380-385	" " "	65	"			"
385-390	" " "	35	"	.005	.04	"
390-395	Fresh granite to 393'. Aplite 393 to 395'	15	"			"
395-400	Aplite. Patches of partially altered (30% alt.) granite	70	.04			"
400-405	Essentially fresh granite. Patches of alteration	90	Tr			"
405-410	Fresh granite	95	Tr			"
410-415	" "	100	Nil	.010	.05	"
415-420	" "	45	"			"
420-425	Aplite and fresh granite	20	"			"
425-430	Fresh granite	40	"			"
430-435	Partially altered granite (60% alt.)	90	"			"
435-440	Fresh granite with minor patches of alteration	90	"	.015	.04	"
440-445	Fresh granite, somewhat (30%) altered from 443-445'	90	"			"
4[illegible]-450	Fresh granite	90	"			"
450-455	Aplite	80	"			"
455-460	Aplite with some small patches of fresh granite	95	"			"
460-465	Aplite to 462', altered granite 462-463', fresh granite 463-465'	85	"	.010	.07	"
465-470	Fresh granite; minor patches of alteration	85	"			"
470-475	Very slightly altered granite to 472. Aplite 472-475'	80	"			"
475-480	Aplite to 476'. Fresh granite 476 to 480'	75	"			"
480-485	Fresh granite	80	"			"
485-490	Fresh granite to 489'. Aplite 489-490'	60	"	Tr	.05	"
490-495	Aplite to 491'. Fresh granite 491-495'	100	"			"
495-500	Fresh granite	55	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb.	Size Core
500-505	Completely altered granite with fine grained sulfides to 594'. Fresh granite 594-595'	90	Nil			AX
505-510	Altered granite (70% alt.) to 507'. Fresh gr. 507-510'	80	"			"
510-515	Fresh granite	70	"	.015	.06	"
515-520	Fresh granite to 516½. Altered granite 516½-520'	45	"			"
520-525	Fresh granite and aplite	35	"			"
525-530	Granite: fresh to 527'; altered 527-529'; fresh 529-530'	90	"			"
53 -535	Altered granite to 531'. Aplite with scattered sulfides 531-535'	90	"			"
535-540	Aplite	45	"	.040	.06	"
540-545	Aplite to 542'; altered granite 542-543'; fresh granite and aplite 543-545'	60	"			"
545-550	Aplite with scattered sulfides	25	"			"
550-555	Completely altered granite to 551'. Fresh granite and aplite 551-555'	25	"			"
555-560	Aplite	55	"			"
560-565	Aplite to 563. Altered granite with fine grained sulfides 563-565'	35	"	.010	.06	"
565-570	Altered granite with fine grained sulfides to 566'. Fresh granite 566-570'	55	"			"
570-575	Fresh granite. Aplite 572-573'	75	"			"
5 -580	Fresh granite.	65	"			"
5 -585	Fresh Granite; scattered patches of alteration	90	"			"
585-590	Fresh granite and aplite to 589'; altered aplite 589-590'	40	"	.015	.07	"
590-595	Altered aplite to 592'. Completely altered granite 592-595'	85	"			"
595-600	Completely altered granite	40	"			"
600-605	" " "	70	"			"
605-610	" " " to 608'. Fresh granite 608 to 610'	35	"			"
610-615	Fresh granite	20	"	.050	.06	"
615-620	" "	20	"			"
620-625	Partially altered granite (60% alt.) to 623'. Fresh granite 623 to 625'	35	"			"

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Cb	Size Core
625-630	Fresh granite, some aplite	40	Nil			AX
630-635	Completely altered granite	25	"			"
635-640	Fresh granite to 638'. Aplite 638-639'. Altered granite (70% alt.) 639-640'	75	"	.045	Tr	"
640-645	Hard aplite	60	"			"
645-650	Fresh granite	65	Tr			BX
650-655	" "	50	Nil			"
655-660	" "	100	"			"
660-665	" "	50	"	.005	.04	"
665-670	" "	100	"			"
670-675	" "	45	"			"
675-680	" "	90	"			"
680-685	" "	85	"			"
685-690	" " to 687'. Hard, fresh aplite 687-690'	100	"	.005	.04	"
690-695	" " to 692'. " " " 692-695'	95	"			"
695-700	" "	25	"			"
700-705	Hard, fresh aplite to 702'. Fresh granite 702-705'	100	"			"
705-710	Fresh granite and aplite. 2" altered granite with fine grained sulfides at 707'	90	"			"
710-715	Hard, fresh aplite; some fresh granite	95	"	.005	.03	"
715-720	Hard aplite; minor alteration	75	"			"
720-725	Fresh granite. Aplite 724-725'	40	"			"
725-730	Fresh granite	100	"			"
730-735	" " 6" altered granite with fine grained sulfides at 735'	95	"			"
735-740	Fresh granite	95	"	.005	.03	"
740-745	Aplite to 742'. Fresh granite 742-745'	95	"			"
745-749	Mixed aplite and fresh granite	95	"			"

End of hole at 749 feet.

Note: All assays are sludge assays. Trace and nil values of SO_3 determined by lamping; numerical values determined by assay. All core and sludges lamped.

Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 8/22/53. Finished: 9/19/53.

COORDINATES: _____

_____

ELEVATION: _____

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-56

BEARING: S 47° E

INCLINATION: Minus 50°

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -121	Overburden. Fresh granite boulders, gravel & sand		Nil			
121-125	Fresh granite, iron stained along fractures	5	No sludge sample			BX
125-130	" " " " " "	20	Nil	Tr	.04	"
130-135	" " " " " "	30	"	"	.07	"
135-140	Aplite, some fresh granite. Iron stained along fract.	30	No sludge sample			"
140-145	Aplite, iron stained along fractures	20	No sludge sample			"
145-150	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	20	Nil	.015	.05	"
150-155	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	50	"	.030	.12	"
155-160	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	100	"	.030	.06	"
160-165	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	"	.030	.02	"
165-170	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	80	"	.095	.03	"
170-175	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	"	.060	.04	"
175-180	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	No sludge sample			"
180-185	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	Nil	.030	.03	"
185-190	Aplite, small seams of fine-grained sulfides	95	"	Tr	.02	"
190-195	" " " " " " "	60	Tr	.025	.02	"
195-200	" " " " " " "	55	Tr	.025	.03	"
200-205	" " " " " " "	25	Nil			"
205-210	Partially altered granite (70% alt.)	15	Tr			"
210-215	Completely altered granite. Fine-grained sulfides	30	Tr	.060	.09	"
215-220	Completely altered granite, some aplite. Fine grained sulfides	70	Nil			"
220-225	Completely altered with fine grained sulfides to 222'. Fresh granite 222-225'	80	Nil			"

Footage	Mineralogy	% Recovery	% SO3	Oz. Au	% Sb	Size Core
225-230	Essentially fresh granite (10% alt.)	55	Nil			BX
230-235	Fresh granite to 232'. Altered (80% alt.) granite with fine grained sulfides 232-235'	40	"			"
235-240	Altered granite (70% alt.)	30	"	.015	.05	"
240-245	Partially altered granite (40% alt.) Small sulfide seams at 242'	45	"			"
245-250	Partially altered aplite and granite (40% alt.) Some sulfide smears	75	Tr			"
250-255	Essentially fresh granite (10-15% alt.) Fine grained sulfides at 252'	60	Nil			"
255-260	Essentially fresh granite (10% alt.)	50	"			"
260-265	Fresh granite to 262', aplite 262 to 265'	75	"	.010	.04	"
265-270	Fresh granite, minor patches of alteration	50	"			"
270-275	Fresh granite	60	"			"
275-280	Aplite, some fresh granite to 278'. Altered granite with fine grained sulfides 278-280'	70	Tr			"
280-285	Altered granite with fine grained sulfides to 283'. Fresh granite 283-285'	50	Nil			AX from
285-290	Fresh granite, patches of aplite	35	"	.015	.04	AX 283'
290-295	Fresh granite to 292'. Altered granite (70% alt.) with fine grained sulfides 292-295'	25	Tr			"
295-300	Essentially fresh granite with patches of alteration	65	Nil			"
300-305	" " " " " " "	70	Nil			"
305-310	Altered granite (65% alt.) Some finegrained sulfides	50	"			"
310-315	" " " " " " " "	30	Tr	.015	.05	"
315-320	" " " " " " " "	35	Nil			"
320-325	Fresh granite	35	"			"
325-330	Fresh granite. Aplite 329-330'	50	Nil			"
330-335	Aplite; minor fresh granite	55	"			"
335-340	Aplite to 339'; altered granite with fine grained sulfides 339-340'	25	"	.015	.02	"
340-345	Altered granite (80% alt.) with patches of fresh gr.	70	"			"
345-350	Fresh granite	5	"			"

Footage	Mineralogy	Recovery	#03	Oz. Au	% Sb	Size Core
350-355	Slightly altered granite (15% alt.)	35	Nil			AX
355-360	Fresh granite to 356'; completely altered granite with fine grained sulfides 356-360	80	"			"
360-365	Altered granite to 361'; fresh granite 361-365'	10	"	.010	.02	"
365-370	Fresh granite	30	"			"
370-375	Granite; fresh 370-372'; altered 372-374'; fresh 374-375'	45	"			"
375-380	Fresh granite	50	Nil			"
380-385	" "	35	"			"
385-390	Granite, some minor alteration to 387'. Aplite 387-390'	20	"	.015	.02	"
390-395	Aplite and partially altered granite to 392'. Fresh granite 392-395'	60	"			"
395-400	Fresh granite	35	"			"
400-405	Altered granite (75% alt.) with fine grained sulfides	40	"			"
405-410	Altered granite to 406'; aplite 406-410'	45	"			"
410-415	Aplite with fine grained sulfides to 412'; fresh granite 412-413'; aplite 413-415'	60	"	.025	.05	"
415-420	Essentially fresh granite (10% alt.)	40	"			"
420-425	" " " Minor alteration	65	"			"
425-430	" " " " " to 427'; Aplite 427-30'	35	"			"
430-435	Aplite to 431'; altered granite with fine grained sulfides 431-432'; fresh granite 432-435'	50	"			"
435-440	Fresh granite with patches of alteration. Some aplite	35	.02	.060	.04	"
440-445	Fresh granite; patches of alteration 440-442'	60	Nil			"
445-450	Fresh granite	95	"			"
450-455	Fresh granite, some aplite	60	Nil			"
455-460	Fresh granite to 456'; aplite with patches of fresh granite 456-460'	95	"			"
460-465	Fresh granite; minor aplite	65	"	.020	.03	"
465-470	" "	80	"			"
470-475	" " to 472'. Altered aplite with fine grained sulfides 472-475'	95	"			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
475-480	Fresh granite, altered at 476'	90	Nil			AX
480-485	" " aplite 484-- 485'	90	"			"
485-490	Aplite, some fine grained sulfides	95	"	.010	Tr	"
490-495	Fresh granite	95	"			"
495-500	" "	95	"			"
500-505	Aplite to 503'; fresh granite 503-505'	100	"			"
505-510	Fresh granite to 508'; altered granite (70% alt.) with fine grained sulfides 508-510'	100	"			"
510-515	Essentially fresh granite, minor alteration. Some aplite	100	"	.025	.04	"
515-520	Essentially fresh granite, minor alteration. Aplite with fine grained sulfides 518-520'	95	"			"
520-525	Aplite, few fine grained sulfides 520-523'. Fresh granite 523-525'	100	"			"
525-530	Fresh granite to 527'; aplite with fine grained sulfides 527-530'	95	"			"
530-535	Aplite to 532'; fresh granite 532-535'	95	"			"
535-540	Fresh granite to 538'; partially altered granite (50% alt.) to 540'	100	"	.020	.04	"
540-545	Aplite to 541'; fresh granite 541-545'	95	"			"
545-550	Fresh granite	90	"			"
550-555	" "	95	"			"
555-560	" "	95	"			"
560-565	Fresh granite to 562'; aplite with fine grained sulfides 562-565'	95	"	.010	.02	"
565-570	Fresh granite to 567'; altered granite (75% alt.) with fine grained sulfides 567-570'	85	"			"
570-575	Fresh granite to 571'; aplite with fine grained sulfides 571-575'	95	"			"
575-580	Fresh granite	80	"			"
580-585	" "	80	"			"
585-590	" "	100	"	.040	.33	"
590-595	" "	100	"			"
595-600	" "	55	"			"

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Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
600-605	Granite, fresh except altered 601-602 & 603-604'	95	Tr			AX
605-610	Fresh granite	60	Nil			"
610-615	" " , patches of alteration	90	Tr	.005	.07	"
615-620	Aplite	95	Nil			"
620-625	Aplite to 622'; fresh granite 622-625'	95	"			"
625-630	Fresh granite to 628'. Aplite 628-630'	90	Nil			"
0-635	Aplite to 631'; altered granite with fine grained sulfides to 632'; aplite to 635'	90	"			"
635-640	Aplite to 636'; fresh granite 636-640'	80	"	.005	.02	"
640-645	Aplite	60	"			"
645-650	Aplite to 649'; fresh granite 649-650'	85	Tr			"
650-655	Fresh granite	90	Nil			"
655-660	Aplite to 658'; fresh granite 658-660'	70	.04			"
660-665	Partially altered granite (60% alt.) to 661'; essentially fresh granite 661-665'	60	Tr	.005	.01	"
665-670	Fresh granite, patches of alteration	40	Nil			"
670-675	Mainly aplite, some fresh granite	70	Tr			"
675-680	Fresh granite	80	Tr			"
680-685	" "	35	Nil			"
685-690	" "	70	"	Tr	.03	"
690-695	" "	40	"			"
95-700	Fresh granite to 696'; aplite 696-700'	55	"			"
700-705	Fresh granite	35	"			"
705-710	Fresh granite to 706'; aplite 706-707'; fresh granite 707-710'	50	"			"
710-715	Fresh granite to 712'; aplite 712-715'	70	"	.005	.03	"
715-720	" "	75	"			"
720-725	" "	80	Tr			"
725-730	Fresh granite, some aplite	90	Nil			"
730-735	" "	50	"			"
735-740	Granite: fresh to 736; altered 736-738'; aplite 738-740'	60	"	Tr	.03	"
740-745	Fresh granite. Patch of altered granite at 743'	50	"			"
745-748	" "	50	"			"

End of hole at 748 feet

NOTE: All assays are sludge assays. Trace and Nil values of WO3 determined by lamping. Numerical values determined by assay. All core and sludges lamped. Hole drilled by Nichols and Thompson Core Drilling Co. Date started: 9/22/53; finished 10/28/1953

COORDINATES: 19,169.3 N
21,029.2 E
ELEVATION: 6,548.0

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MD-57

BEARING: N 47° W
INCLINATION: Minus 47½°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -272	Overburden. Fresh granite boulders, gravel & sand		Nil			
272-290	Fresh granite. Weathered (iron-stained) along fractures	50	No sludge			NX
290-315	" " " " " " "	55	Nil	.015	.01	"
315-335	Fresh granite to 316. Aplite 316 to 335. Weathered along fractures.	65	Nil	.015	.05	AX at 383
335-344	Fresh aplite. Weathered along fractures	70	No sludge			AX
344-363	Fresh granite. Patches of aplite	80	Nil	.010	.05	"
363-385	" "	90	Tr	.035	.03	"
385-420	" " Few patches of aplite	75	Nil	.005	.01	"
420-429	" "	65	Nil	.005	.02	"
429-433	" "	70	Nil	Tr	.02	"
433-437	" " Aplite with small stringers fine-grained sulfides 434 to 435'	55	Nil	Tr	.01	"
437-440	Completely altered granite and aplite. Few fine-grained sulfides	65	Nil	.005	.06	"
440-442	Completely altered granite to 441'; fresh granite to 442'; brecciated and altered granite, some aplite, 442 to 445'	70	Nil	.055	.06	"
442-450	Brecciated, altered granite and gouge to 447'; partially altered to 449'; fresh granite 449 to 450'	75	Nil	.020	.04	"
450-470	Fresh granite. Patch of alteration at 453'	95	No sludge			"
470-475	Essentially fresh granite and aplite	95	Nil	.015	.01	"
475-483	Fresh granite, some aplite	55	No sludge			"
483-487	Fresh granite	30	Nil	.015	.02	"
487-492	" "	80	Nil	.025	.05	"
492-505	" " minor aplite	85	No sludge			"
505-510	Hard, fresh aplite	70	Nil	.015	.02	"
510-520	Fresh granite to 512'; fresh aplite to 514'; fresh granite to 515'; fresh aplite to 518'; fresh granite to 520'	75	No sludge			"

Footage	Mineralogy	% Recovery	% WO_3	% Cu	% Mo	Assay Core
520-525	Mixed fresh granite and aplite	65	Nil	.020	.06	*
525-530	Fresh granite to 527'; fresh aplite to 528'; fresh granite to 530'	75	No sludge			*
530-537	Fresh granite; some aplite. Minor alteration at 536'	85	Nil	.015	.04	*
537-542	Fresh granite	70	Nil	.015	.02	*
542-547	Fresh granite to 544'. Aplite to 547'. Minor alteration at 544'	90	Nil	.020	.04	*
547-552	Fresh aplite to 551'. Fresh granite to 552'	55	Nil	.020	.02	*
552-557	Fresh granite	95	Nil	.030	.01	*
557-565	Fresh granite. Partially altered 564 to 565'	60	No sludge			*
565-570	Mainly fresh aplite; some fresh granite	30	Nil	.015	.01	*
570-580	Fresh aplite to 572'; partially altered aplite 572 to 580'	35	No sludge			*
580-585	Mainly fresh aplite	20	Nil	.020	.01	*
585-590	Fresh granite	30	Nil	.005	.02	*
590-595	" "	35	Nil	.010	.01	*
595-600	" "	40	Nil	.005	.01	*
600-605	Fresh aplite; some fresh granite	25	Nil	Tr	.01	*
605-609	Fresh granite	70	Nil	.015	Nil	*
609-613	" " Patch of alteration at 611'	70	Nil	.020	Nil	*
613-621	Fresh aplite to 616'. Fresh granite 616 to 621'	85	Tr	.010	Nil	*
621-627	Fresh granite to 626; fresh aplite 626 to 627'	80	Nil	.010	Nil	*
627-650	Fresh granite. Small patches of aplite	85	Nil	.015	Nil	*
650-675	" " " " " " Minor patch of alteration at 672'	70	Nil	.015	Nil	*
675-703	Mixed fresh granite and aplite to 684'. Partially altered aplite 684 to 693'. Completely altered granite, some gouge 693 to 696'. Mainly fresh granite (very minor alteration) 696 to 703'	50	Nil	.010	.03	*

End of hole at 703 feet

Note: All assays are sludge assays. Trace and nil values of WO_3 determined by lamping.
All cores and sludges lamped.
Hole drilled by Nicholls and Thompson Core Drilling Co.
Date started: 8/9/54; finished: 9/25/54.

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COORDINATES: 23,995 N
22,667 E

ELEVATION: 6,449

[illegible]
Stucco, [illegible]

PLACER [illegible] HOLE NO. 23-59

SECTION: E 75' S

INCLINATION: Minus 85°

Page 1

Footage	Mineralogy	Recovery	Wt.	Au	Zn	Size Cont.
			Mil			
0 - 20	Overburden. Fresh granite and quartzite boulders, gravel and sand					
20 - 30	Bedrock at 27 feet. Quartzite with minor pyrite and stibnite 27-30'					
30 - 35	Quartzite					
35 - 40	Quartzite and aplite with minor zinc-stained sulfides					
40 - 45	Aplite to 41', quartzite 41 to 45'					
45 - 50	Quartzite					
50 - 55	"					
55 - 60	"					
60 - 65	"					
65 - 70	"					
70 - 75	"					
75 - 80	"					
80 - 85	"					
85 - 90	"					
90 - 95	"					
95 - 100	"					
100 - 105	"					
105 - 110	"					
110 - 115	"					
115 - 120	"					
120 - 125	"					
125 - 130	"					
130 - 135	"					
135 - 140	"					
140 - 145	"					
145 - 150	"					
150 - 155	Quartzite to 153'; aplite 153 to 155'; minor sulfide 155 to 170'					
155 - 160	"					
160 - 165	"					
165 - 170	"					
170 - 175	Aplite to 172'. Quartzite 172-175'					
175 - 180	Quartzite					
180 - 185	"					
185 - 190	"					
190 - 195	"					
195 - 200	Quartzite to 218'; aplite 219-224; quartzite 224-227; aplite 227-230'					
200 - 205	"					
205 - 210	"					
210 - 215	"					
215 - 220	"					
220 - 225	"					
225 - 230	"					
230 - 235	"					
235 - 240	"					
240 - 245	"					
245 - 250	Quartzite to 253'; fresh granite 253-260'					
250 - 255	"					
255 - 260	"					
260 - 265	Fresh granite to 271'; quartzite to 275'					
265 - 270	"					
270 - 275	"					
275 - 280	Quartzite to 280'; aplite 280-290'					
280 - 285	"					
285 - 290	"					
290 - 295	Quartzite					
295 - 300	"					
300 - 305	"					
305 - 310	"					
310 - 315	"					
315 - 320	"					

95	"	.005	.00	
90	"	.005	.00	
85	"	.025	.02	
80	"	Tr	.01	
75	"	.005	.01	
70	"	Tr		25 at 62'
65	"	Tr	.01	
60	"	Tr	.02	
55	"	Tr	.01	
50	"	Tr	.01	
45	"	Tr	.01	
40	"	Tr	.01	
35	"	Tr	.01	
30	"	.005	.01	
25	"	.005	.01	
20	"	.005	.01	
15	"	Tr	.01	
10	"	Tr	.02	
5	"	Tr	.04	
0	"	.005	.02	
5	"	.010	.04	
10	"	.010	.01	
15	"	.010	.01	
20	"	.010	.01	
25	"	.015	.03	
30	"	.015	.01	
35	"	.015	.01	21 at 305'

Footage	Lithology	Recovery	Sat. %	Oil %	Gas %	Size Core
320-335	Quartzite	25	Nil	.010	Nil	[illegible]
335-350	"	35	"	.005	.01	"
350-365	Quartzite to 354; aplite 354-365'	35	"	.005	.01	"
365-380	Aplite	60	"	.010	.03	"
380-395	Aplite to 381. Quartzite 381-395. Some-gritty quartzite at 383'	60	"	.025	.04	"
395-410	Quartzite to 407'; aplite 407-410'	60	"	[illegible]	.02	"
410-425	Quartzite to 418'; aplite 418-425'	60	"	.015	.02	"
425-440	Quartzite	20	"	.010	.01	"
[illegible]-455	"	20	"	.010	.03	"
[illegible]-470	"	15	"	.010	.11	"
470-485	"	15	"	[illegible]	.04	"
485-490	"	20	"	.005	.03	"
	Mud and shell cleared out at 485 feet on hole 485 hole found. All attempts to recover oil and shell core unsuccessful, so hole was deflected about 5° south at 488 feet.					
490-495	Quartzite	10	Not sampled			"
495-510	Quartzite to 500. Aplite 500-505'; quartzite 505-510'	95	"	"		"
510-525	Quartzite	20	"	"		"
525-540	"	15	"	"		"
540-555	"	20	"	"		"
555-570	"	10	"	"		"
570-585	"	10	"	"		"
585-590	"	15	"	"		"
590-595	Quartzite to 595. Also dense 595-596'. Quartzite 596-595'	45	Nil	.005	.04	"
595-520	Quartzite to 509. Aplite 509 to 512'. Quartzite 512 to 520'	85	"	.005	Nil	"
520-535	Quartzite	95	"	.010	.05	"
535-550	"	60	"	.020	.03	"
550-565	Quartzite to 560'; also dense 560-557'; quartzite 557-565'	80	"	.025	.09	"
565-580	Quartzite	65	"	.005	.07	"
580-595	"	60	"	.005	.07	"

Footage	Description	Recovery	%	Cu. %	% Pb	Size Core
595-610	Fine schist	90	[illegible]	[illegible]	.07	[illegible]
610-625	" "	63	"	.045	.54	4 ft.
625-640	" "	70	"	.030	.05	" 623'
640-645	" "	56	"	.035	.11	"
645-650	" " , altered and soft 649-650'	70	"	.110	.41	"
650-655	Fine-grained schist and altered granite. Fine-grained sulfides	10	"	.030	.10	"
655-660	Completely altered granite. Fine-grained sulfides	20	"	.035	.10	"
660-665	Good stibnite at 661'	30	"	.040	.10	"
665-670	Completely altered granite. Fine-grained sulfides	20	"	.040	.10	"
670-675	" " "					
	Strong fault zone - heavy zone - from 675 to 680'	5	"	.030	.06	"
675-680	No core recovery	0	"	.025	.05	"
680-685	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.025	.76	"
685-690	Completely altered granite. Fine-grained sulfides. Stibnite	40	"	.030	.42	"
690-695	Completely altered granite. Fine-grained sulfides. Good stibnite 692-693'	60	"	.105	1.15	"
695-700	Completely altered granite. Fine-grained sulfides. Good stibnite	60	"	Slight loss.		"
700-705	Completely altered granite. Fine-grained sulfides. Stibnite	55	"	.110	.40	"
705-710	Completely altered granite. Fine-grained sulfides. Stibnite	55	"	.100	.34	"
710-715	Mainly altered granite. Few patches fresh granite. Good stibnite at 713'	55	"	.115	.60	"
715-720	Mainly altered granite. Few patches fresh granite. Stibnite at 716'	65	"	.040	.04	"
720-725	Fine altered and fresh granite	55	"	.035	.20	"
725-730	Mainly fresh granite. Patches of altered granite.	85	"	.025	.10	"
730-735	" " " " "	15	Slight loss			"

End of hole at 735 feet.

Note: All assays are single assays. All values of Cu determined by assay. All core and cuttings lost. Hole drilled by Mitchell and Thompson Core Drilling Co. Date started 9/27/54; finished 10/27/54.

COORDINATES 23,361 N
22,484 E

ELEVATION 6,430

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-59

BEARING: N 75° E

INCLINATION: Minus 50°

Page 1

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 - 65	Overburden; granite and quartzite boulders, gravel and sand to 24 feet, fresh granite to 65'. Overburden depth is uncertain -- may have been anywhere from 24 to 65'. Decomposed and fractured nature of rock makes bedrock location impossible to determine; best guess is between 60 and 65 feet.		Nil			NX
65 - 70	Completely altered granite. Some fine-grained sulfides	60	"	.020	.05	"
70 - 75	" " " " " " "	30	"	.025	.01	"
75 - 80	" " " " " " " to 78'; partially altered 78 to 80'	20	"	.030	.02	BX from 79'
80 - 85	Altered aplite	15	"	.010	.02	BX
85 - 90	" "	35	"	.005	Nil	"
90 - 95	" " to 94'; mica schist 94 to 95'	45	"	Tr	.03	"
95 -100	Mica schist to 98'; altered granite 98 to 100'	80	"	Tr	.04	"
100-105	Partially altered aplite	20	"	.005	.01	"
105-110	" " to 109'; quartzite to 110'	10	"	Tr	.03	"
110-115	Altered aplite to 114'; quartzite to 115'	25	Tr	Tr	.01	"
115-120	Quartzite	85	Tr	.010	.02	"
120-135	"	70	Nil	Tr	.03	"

End of hole at 135 feet

Note: All assays are sludge assays. Trace and Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 10/28/54; finished: 11/2/54

COORDINATES 23,672 N
23,026 W
ELEVATION 6,570

EMPIRE PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. ED-60

BEARING: N 77° E
INCLINATION: Minus 45°
Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 25	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	Nil	Tr	.03	HX
25 - 50	Quartzite. In part decomposed to sand. Iron-stained along fractures	35	"	Tr	.05	BX at 4'
50 - 75	Quartzite to 66'. Aplite 66 to 75'. Iron-stained along fractures	25	"	Tr	.05	BX
75 -100	Granite, partially altered. Iron-stained along fractures	35	"	Tr	.03	"
100-110	Altered granite, patches of fresh granite	40	"	.005	.40	"
110-115	Altered granite. Some fine-grained sulfides	20	Tr	.030	.13	"
115-120	Altered granite. Minor fine-grained sulfides	40	Tr	.015	.07	"
120-125	" " " " " "	10	Tr	.010	.05	"
125-130	" " " " " "	40	Nil	.015	.06	"
130-135	" " " " " "	65	"	.010	.04	"
	Patches of fresh granite	90	"	.025	.06	"
135-140	Altered granite. Minor fine-grained sulfides	70	"	.005	.06	"
140-145	" " " " " "	55	"	.015	.15	"
145-150	" " " " " "	90	"	.010	.11	"
150-155	" " " " " "	85	"	.020	.11	"
	Patches fresh granite	60	"	.015	.06	"
155-160	Altered granite. Minor fine-grained sulfides	45	"	.010	.06	"
	Patches fresh granite	35	"	.010	.13	"
160-185	Mixed altered and fresh granite	70	"	.020	.40	HX at 242'
185-210	" " " " " to 197'. Quartzite 197 to 210'	95	"	.020	.16	BX
210-235	Quartzite. Practically no core from 217 to 227'	60	"	.010	.27	"
235-260	" Stibnite at 249'	50	"	.010	.10	"
260-285	"	80	"	.015	.04	"
285-290	" Stibnite at 286'					
290-295	"					
295-300	"					

Footage	Mineralogy	% Recovery	% SO3	oz. Au	% Sb	Size Core
300-305	Quartzite to 302'. Black gouge 302-303'. Completely altered granite, fine-grained sulfides 303 to 305'	60	No Sludge Sample			AX
305-310	Completely altered granite, fine-grained sulfides, some stibnite	25	Nil	.040	.25	"
310-315	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.055	.57	"
315-320	Completely altered granite, fine-grained sulfides. Fair stibnite	90	"	.085	.73	"
320-330	Completely altered granite, fine-grained sulfides. Good stibnite	90	"	.135	3.70	"
330-335	Completely altered granite, fine-grained sulfides. Fair stibnite	95	"	.105	.82	"
335-340	Completely altered granite, fine-grained sulfides. Minor stibnite	95	"	.139	.26	"
340-345	Completely altered granite, fine-grained sulfides	95	"	.095	.35	"
345-350	" " " " " "	95	"	.025	.23	"
350-355	" " " " " "	80	"	.035	.28	"
355-360	Mixed altered and fresh granite	95	"	.035	.27	"
360-365	Mainly altered granite; patches fresh granite	95	"	.075	.27	"
365-370	Altered granite	75	"	.055	.16	"
370-375	Altered granite and gouge to 372'. Essentially fresh granite to 375'	70	"	.035	.19	"
375-380	Fresh and partially altered granite	35	"	.020	.09	"
380-385	" " " " "	60	"	.020	.47	"
385-390	Altered granite. Stibnite at 385'	35	"	.030	.35	"
390-395	" "	80	"	.040	.27	"
395-400	Partially altered granite	60	"	.020	.36	"
400-405	Gouge to 401', altered granite with patches fresh granite to 405'	75	"	.005	.19	"
405-410	Altered granite and gouge to 400', partially altered granite to 410'	40	"	.035	.23	"
410-415	Mainly fresh granite, patches of alteration	85	"	.010	.13	"
415-420	Fresh and partially altered granite	80	"	.035	.93	"
420-425	" " " " "	95	"	.010	.08	"
425-430	" " " " "	95	"	Tr	.05	"

Footage	Lithologyy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
430-435	Fresh and partially altered granite	70	Nil	.005	.06	AX
435-440	" " " " "	70	"	.005	.05	"
440-445	" " " " "	80	"	Tr	.05	"
445-450	" " " " "	50	"	Tr	.05	"
450-455	" " " " "	80	"	.005	.04	"
455-460	" " " " "	75	"	Tr	.03	"
460-465	" " " " " to 463'.					
	Altered granite with fine-grained sulfides to 465'	75	"	.005	.04	"
465-470	Completely altered granite with fine-grained sulfides	55	Tr	.205	.08	"
470-475	" " " " " " "					
	to 473'; partially altered granite to 475'	40	Nil	.100	.35	"
475-480	Partially altered granite	50	"	.035	.18	"
480-485	Fresh and partially altered granite	90	"	.025	.16	"
485-488	" " " " "	85	"	.040	.15	"

End of hole at 488 feet

Note: All assays are sludge assays. Trace and Nil values of WO3 determined by leaping. All core and sludges lamped.

Hole drilled by Globole and Thompson Core Drilling Co.
Date started: 11/2/54; finished: 11/13/54.

COORDINATES 21,028 N
33,372 W
ELEVATION 6,365

Silver King Mine
Wallace, Idaho

DIAMOND DRILL HOLE NO. MU-61

BEARING N 86° W
INCLINATION Minus 47°

Page 1

Footage	Mineralogy	Recovery	Ag oz.	Pb %	Zn %	Size Core
0 -17½	Overburden. Mainly sand; some quartzite and granite boulders, and pebbles.					

End of hole at 17½ feet.

Hole was abandoned before reaching bedrock even it seems apparent that it had flattened out appreciably--inclination at the bottom of the hole was probably about minus 60° to 70° instead of the original minus 47°.

Hole drilled by Nicholls and Thompson Core Drilling Co.
Date started: 11/14/34; finished: 11/22/34.

Coordinates: 23,912 E

23,011 S

Elevation: 6516

Kellogg Mine Area
Kellogg, Idaho

DIAMOND DRILL HOLE NO. [illegible]-62

Bearing: S 75° E

Inclination: Plane 60°

Page 1

Footage	Mineralogy	% Recovery	% Ag	Gr. to	%	Pb	Plus Core
0 - 10	Fractured and decomposed quartzite. Mud.	15	No sludge samples				[illegible] 38 at 20'
10 - 65	Fractured quartzite	30	[illegible]	Tr		Nil	"
65 - 90	Quartzite, except aplite 73 to 77 ft.	15	"	.005		.01	"
90 - 115	" " " 95 to 97 ft. & 104-105 ft.	15	"	.005		.01	"
115-140	" " " 135 to 137 ft.	40	"	.005		.03	"
140-165	"	25	"	.010		.02	"
165-190	Quartzite to 170 ft. muscovite schist 170 to 174 ft., quartzite 174 to 190 ft.	60	"	.005		.02	"
190-210	Quartzite to 205 ft., partially altered granite 205 to 209 ft., quartzite 209 to 210 ft.	70	"	Tr		.03	25 at 200'
210-230	Altered aplite and granite to 215'; quartzite 215-215'; altered aplite and granite 218-230'. Minor fine-grained sulfides.	40	"	.020		.02	"
230-250	Quartzite	35	"	.020		.02	"
250-255	"	45	"	.025		.03	"
255-260	"	30	"	.025		.12	"
260-265	" Some stibnite and pyrite	15	"	.025		.44	"
265-270	" " " "	5	"	.015		.56	"
270-275	" " " "	30	"	.025		.77	"
275-280	" " " "	5	"	.020		.04	"
280-285	" " " "	10	"	.025		.71	"
285-290	" " " "	20	"	.020		.51	"
290-295	" " " "	50	"	.030		.42	"
295-300	" No stibnite	85	"	.020		.28	"
300-305	"	60	"	.015		.14	"
305-310	"	95	"	.020		.12	"
310-315	"	75	"	.020		.09	"
315-320	"	85	"	.015		.13	"
320-325	"	75	"	.015		.10	"
325-330	Quartzite to 328'; dark grey gouge and granite breccia 328-330'	20	"	.015		.17	"

RECEIVED
JAN 31

Footage	Description	Recovery %	Au, oz	Ag, oz	Size Core
330-335	Completely altered granite; gouge and breccia	55	Nil	.010	.15	6"
335-340	" " " " " "	25	"	.020	.13	"
340-345	" " " " " "	80	"	.025	.21	"
345-350	" " " " " "	25	"	.020	.11	"
350-355	" " " " " "	30	"	.025	.13	"
355-360	No core	0	"	.025	.11	"
360-365	Completely altered granite. Bronzbased.	15	"	.020	.09	
365-370	" " " " Fine-gr. sulfides	70	"	.030	.16	"
370-375	" " " Fair stibnite (sludge)	65	"	.035	.31	"
				(core) .025	.32	
375-380	" " " Minor stibnite (sludge)	65	"	.025	.23	"
				(core) .040	.12	
380-385	" " " Fine-grained sulfides (sludge)	80	"	.030	.21	"
				(core) .020	.16	
385-390	" " " Some stibnite (sludge)	45	"	.020	.23	"
				(core) .020	.07	
390-395	Gray-colored sericitized quartzite (sludge)	55	"	.010	.15	"
395-400	" " " " " to 396'. Completely altered granite, minor stibnite 396-400' (sludge)	65	"	.050	.17	"
				(core) .050	.15	
400-405	Completely altered granite, some brecciation, fine-grained sulfides (sludge)	95	"	.035	.09	"
				(core) .020	.06	
405-410	Completely altered granite, some brecciation, fine-grained sulfides	75	"	.010	.12	"
410-415	Completely altered granite, some brecciation, fine-grained sulfides. 3" from granite at 414'	85	"	.030	.06	"
415-420	Completely altered granite, some brecciation, fine-grained sulfides	10	"	.035	.13	"
420-425	Completely altered granite except patch fresh granite 422-423'	30	"	.035	.09	"
425-430	Completely altered granite	55	"	.020	.05	"

Footage	Lithology	% Recovery	% Pyr.	Cu. %	% Co	Size Core
430-435	Sesplinely altered granite	9	Pyr.	.030	.05	BL
435-440	Fairly completely altered granite	5	"	.010	.04	"
440-445	altered granite; patches fresh granite	25	"	.015	.11	"
445-450	Biotite granite	15	"	.030	.10	"
450-455	" "	15	"	.010	.08	"
455-460	" " to 458'. Completely altered granite 456-460'	20	"	.030	.07	"
460-465	Altered granite and aplite	25	"	.045	.09	"
465-470	" "	25	"	.020	.08	"
470-475	" " " " to 473'; essentially fresh granite 473-475'	10	"	.025	.06	"
475-480	altered aplite; minor pillmite	50	"	.015	.30	"
480-485	" " " "	80	"	.020	.09	"
485-490	" " " "	20	"	.015	.13	"
490-495	" "	25	"	.015	.10	"
495-500	" " to 497'. Biotite schist 497-500'	25	"	.015	.37	"
500-505	Biotite schist	10	"	.055	.29	"
505-510	minor biotite schist, altered granite and aplite	80				

End of hole at 510' feet.

Note: All assays are single assays unless otherwise indicated. All values of Co) determined by Ingersoll. All core and sludges larger.

Sludge sampling here probably very unreliable from 370 feet to the bottom of the hole, due to caving from sludger in the hole.

[illegible] Well Hole No. [illegible]

Driller's Notes

Date Start: 12/1/54
Finish: 1/6/54

Drillers: [illegible], Burkell
Helpers: [illegible], [illegible]

Feet	Remarks
0 - 20	Very broken quartzite. No sludge. Caved to 25 at 20 feet.
20 - 35	No core, no sludge. Sand. Cemented.
35 - 40	Quartzite and sand. No sludge. Cemented.
40 - 55	Quartzite and sand. White sludge.
55 - 74	Very broken quartzite. Sand seams. White sludge.
74 - 80	Rusty granite with quartzite. Rusty-white sludge.
80 - 85	Sand. Brown sludge.
85 -115	Quartzite and sand. Light grey sludge.
115-120	Granite and sand. Grey and brown sludge.
120-140	Granite and quartzite. Grey sludge.
140-155	Quartzite and granite, very broken. Grey sludge.
155-160	Quartzite, granite and sand. Hole caving slightly. Brownish sludge.
160-165	Quartzite and sand. Very broken. Hole caving. Grey sludge.
165-170	Quartzite and granite. Dark blue and grey sludge.
170-174	Quartzite and granite. Heavy in size. Dark blue sludge.
174-180	Quartzite. Grey sludge.
180-189	Quartzite and granite. Very hard. Grey sludge.
189-200	Quartzite. Very hard and broken. Grey sludge. Caved to 61 at 205 feet.
200-210	Quartzite and granite. Some gauge. Grey sludge.
210-224	Altered granite. Soft. Blue-grey sludge.
224-230	Altered granite with gauge. Very soft. Hole caving slightly 225 to 230 feet. Grey sludge.
230-235	Slightly altered granite. Very soft, with gauge. Grey sludge.

Footage	Remarks
235-245	Quartzite, some granite. Grey sludge.
245-250	Quartzite. Hard and broken. Grey sludge.
250-260	Quartzite. Mica. Blue and grey sludge.
260-265	Quartzite. Grey sludge.
265-270	Very soft and gouge. Grey sludge.
270-275	Quartzite and altered granite. Some antimony. Blue-grey sludge.
275-285	Quartzite and gouge. Hole caving at 270 feet. Grey sludge.
285-290	Altered granite and quartzite. 285 to 288 ft. was very hard, 288 to 290 ft. was softer. Blue-grey sludge.
290-295	Quartzite. Some antimony. Very soft. Blue sludge.
295-298	Quartzite. Very hard. Blue sludge.
298-300	Quartzite. Mica. Bluish-grey sludge.
300-305	Quartzite. Mica. More grey sludge.
305-310	Quartzite, altered granite. Some antimony. Grey sludge.
310-320	Quartzite, altered granite. Medium hard. Grey sludge.
320-330	Gouge. Blue sludge.
330-335	Altered granite. Very soft and broken. Dark grey sludge.
335-340	Altered granite and gouge. Very soft. Grey sludge.
340-350	Altered granite and gouge. Very soft. Grey sludge.
350-355	Mostly talc and gouge, a little altered granite. Hole caving at 345 feet. Grey sludge.
355-360	No core. Talc and gouge. Hole caving from 345 ft. Blue-grey sludge.
360-365	Sulfides and gouge. Blue sludge. Some core at 365 feet.
365-370	Altered granite. Very soft. Some gouge. Blue-grey sludge.
370-375	Three ft 4 feet of sand in bottom of hole - had to wash to bottom. Altered granite, very soft. Some antimony. Blue and grey sludge.

Footage	Remarks
375-380	Had to wash to bottom of hole - 3 feet of sand. Altered granite, soft. Grey sludge.
380-385	Altered granite, soft. Blue and grey sludge. Had to ream through 5 feet of sand to bottom of hole.
385-390	Sulphides and gouge. Soft and broken. Blue-grey sludge. Reamed and drilled 5 feet to bottom of hole.
390-395	Reamed and drilled 4 feet through sand. Hole caving. Altered granite and gouge. Very soft and broken. Grey sludge.
395-400	Reamed and drilled 5 feet to bottom. Caving. Sulfides. Lost back core when pulling. Hole caved back of core barrel. Consumed 12 gallons.
400-405	Cement did not set. Reamed and drilled 25 feet of cement. Altered granite, sulfides. Bluish-grey sludge. No core noticed while pulling.
405-410	Reamed rods 15 feet to bottom of hole. Sulfides. Lots of dark grey sludge. Gouge washing in hole from above.
410-415	Reamed rods 15 feet to bottom of hole. Altered granite. Dark grey sludge.
415-420	Reamed rods 15 feet to bottom. Altered granite and gouge. Dark blue sludge.
420-425	Reamed 15 feet to bottom of hole. Altered and fresh granite. Gouge. Grey sludge.
425-430	Altered granite. Gouge. Dark blue sludge.
	Cased to 11 at 430 feet.
430-435	Altered granite, very soft. Grey sludge.
435-440	Altered granite, very soft. Blue-grey sludge.
440-445	Had to wash and drill 12 feet to bottom of hole. Altered granite, very soft. Grey sludge.
445-450	Fairly tight to bottom again. Altered granite, very soft and gouge. Blue sludge.
450-455	Had to wash 21 feet to bottom. Quartz and granite. Dark blue sludge.
	Cemented hole - 10 sacks cement.
	Blue sulfide sludge getting to bottom of hole through core, reconnaissance, and maintenance on drill.

[illegible] - Driller's Log - [illegible]

Depths	Remarks
375-400	Muscovite and quartz. Grey and white clusts.
400-470	Hit open cave at 470 feet. Had to wash and drill 4 feet to bottom. Muscovite and quartz. Medium-grey clusts.
470-500	Muscovite and mica. Mica and grey clusts.
	Hole caved badly from 440 to 460 feet.
500-510	Aplite and schist. Very soft and easy. Light grey clusts.
	Had lots of trouble getting out of hole. Cave from 460 to 447 feet.

Had to ream.

COORDINATES 24,346 N — Yellow Pine Mine, Stibnite, Idaho — BEARING Due East

23,161 E — INCLINATION Minus 49°

ELEVATION 6554 — DIAMOND DRILL HOLE NO. DC-63 — Page 1

Footage	Mineralogy	% Core Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 -100	Mixed fresh granite and quartzite. Boulders and sand. Impossible to determine where bedrock was entered -- probably somewhere between 60 and 150 Ft.					
100-105	Quartzite. Weathered (iron-stained) along fractures	15				AX
105-110	" " " " " "	15				"
110-115	" " " " " "	1	Nil	.010	.13	"
115-120	" " " " " "	20				"
120-125	Fresh granite. Weathered (iron-stained) along fractures	30				"
125-130	" " " " " " "	15				"
130-135	" " " " " " "	10	Nil	Tr	.11	"
135-140	Mixed fresh granite and quartzite. Weathered along frac.	10				"
140-145	" " " " " " " "	10				"
145-150	No core	0				"
150-155	" "	0				"
155-160	Fresh granite. Weathered along fractures	10	Nil	.005	.05	"
160-165	" " " " "	10				"
165-170	" " " " "	5				"
170-175	" " " " "	10	Nil	.010	.05	"
175-180	" " " " "	10				"
180-185	Fresh and partly altered granite (greenish color). Weathered along fractures.	30				"
185-190	Partially altered granite (greenish color). Weathered along fractures	5	Nil	.005	.07	"
190-195	Partially altered granite (greenish color). Weathered along fractures	5				"
195-200	Fresh and partially altered granite (greenish color). Weathered along fractures	40				"
200-205	Fresh and partially altered granite (greenish color). Weathered along fractures	25	Nil	.005	.03	"
205-210	Fresh and partially altered granite (greenish color). End of weathering at 207'	20	"	.010	.04	"

Footage	Mineralogy	% Core Recovery	% WO3	Oz. Au	% Sb	Size Core
210-215	Fresh and partially altered granite (greenish color).	15	Nil	.005	.04	AX
215-220	" " " " " " "	90	"	Tr	.12	"
220-225	Essentially altered granite (greenish color). Small stibnite stringer at 223'. Stibnite at 225'	90	"	.005	.12	"
225-230	Essentially altered granite (greenish color). Minor sulfides and Sb.	80	"	.005	.35	"
230-235	Essentially altered granite (greenish color). Good stibnite at 233', small stringer at 230'	90	"	.005	.93* Core ?	"
235-240	Altered granite. Small stringers and disseminations of stibnite.	55	"	.005	.32*	"
240-245	Altered granite; small patches fresh granite. Some stibnite	40	"	.035*	.41*	BX at 242'
245-250	Altered granite. Good stibnite 248 to 250'	45	"	.010	2.60*	BX
250-255	Altered granite. Some fresh granite 253 to 255'. Good stibnite 250 to 251'	35	"	.010	.29*	"
255-260	Mixed fresh and altered granite	15	"	.010	.09	"
260-265	" " " " "	8	"	Tr	.11	"
265-270	" " " " " . Greenish color	40	"	.005	.08	"
270-275	" " " " " " Some sulfides	60	"	Tr	.10	"
275-280	Greenish colored. Schistose granite to 278. Altered granite with sulfides 278 to 280'	35	"	Tr	.10	"
280-285	Essentially altered granite. Greenish color. Sulfides 280 to 281'	30	"	.005	.05	"
285-290	Essentially altered granite, patches fresh granite. Greenish color	40	"	No sludge		"
290-295	Essentially altered granite, patches fresh granite. Greenish color	15	"	.005	.07	"
295-300	Altered granite. Fine-grained sulfides	10	"	Tr	.07	"
300-305	" " " " "	5	"	Tr	.03	"
305-310	" "	3	"	Tr	.10	"
310-315	No core	0	"	.005	.06	"
315-320	Lamprophyre dike (?) to 317'. Altered granite, some sulfides 317 to 320'. Greenish color	50	"	Tr	.06	"
320-325	Altered granite, some fine-grained sulfides. Greenish color.	70	"	Tr	.11	"
325-330	Altered granite, some fine-grained sulfides. Greenish color.	55	"	Tr	.10	"

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Footage	Mineralogy	% Core Recovery	% WO3	Oz. Au	% Sb	Size Core
330-335	No core	0	Nil	Tr	.06	EX
335-340	Altered granite, some fine-grained sulfides. Greenish color	25	"	Tr	.06	"
340-345	Altered granite, some fine-grained sulfides. Greenish color	5	"	Tr	.05	"
345-350	Altered granite, some fine-grained sulfides. Greenish color	5	"	.005	.06	"
350-355	Altered granite. Fine-grained sulfides. Some stibnite	5	"	Tr	.07	"
355-360	" " " " " "	5	"	.005	.05	"
360-365	Altered granite. Greenish color	5	"	Tr	.04	"
365-370	" " " "	5	"	Tr	.05	"
370-375	" " " "	10	"	Tr	.04	"
375-380	" " " " Patches fresh granite	10	"	Tr	.05	"
380-385	Mainly fresh granite to 384'. Altered granite with sulfides 384 to 385'.	15	"	.005	.05	"
385-390	Altered granite, greenish color.	15	"	Tr	.04	"
390-395	" "	15	"	Tr	.06	"
395-400	" "	15	"	.015	.04	"
400-405	Aplite	15	"	.015	.03	"
405-410	Aplite and fresh granite. Patches of alteration	35	"	.005	.04	"
410-415	" " " " " " "	10	"	.020	.02	"
415-420	Fresh granite	5	"	.005	.04	"
420-425	" "	25	"	.005	.05	"
425-430	" "	50	"	.005	.03	"
430-435	" " to 433, altered granite with fine-grained sulfides 433 to 435'	80	"	.015	.04	"
435-440	Altered granite with fine-grained sulfides to 437', fresh granite 437 to 440'	50	"	.005	.04	"
440-445	Fresh granite	30	"	Tr	.73	"
445-450	Fresh granite, patches of alteration	30	"	.005	.69	"
450-455	Altered granite, fine-grained sulfides	35	"	.025	.37	"
455-460	Fresh granite	95	"	.005	.07	"
460-465	" "	55	"	Tr	.05	"
465-470	" "	60	"	Tr	.03	"
470-475	" " to 474', aplite 474 to 475'	40	"	Tr	.03	"
475-480	Aplite	35	"	.005	.04	"
480-485	"	30	"	.005	.10	"

Footage	Mineralogy	% Core Recovery	% SO	Oz. Au	% Sb	Size Core
485-490	Aplite and fresh granite	35	Nil	.005	.06	EX
490-495	Mainly altered granite with fine-grained sulfides; patches fresh granite	25	"	.020	.06	"
495-500	Mixed altered and fresh granite	30	"	.010	.06	"
500-505	Essentially fresh granite	30	"	Tr	.06	"
505-510	Slightly altered granite	15	"	Tr	.06	"
510-515	" " "	10	"	.005	.01	"
515-520	" " "	10	"	Tr	.02	"
520-525	" " "	30	"	Tr	.03	"
525-530	Fresh granite except altered at 525' and 1/8" stringer stibnite	50	"	Tr	.19	"
530-535	Fresh granite. 1/8" stringer stibnite at 530'	80	"	Tr	.11	"
535-540	Fresh granite.	90)	"	Tr	.04	"
540-545	" "	60)	"			"
545-550	Mixed fresh and altered granite. Stibnite at 550'	45	"	Tr	.07	"
550-555	" " " " "	45	"	.005	.07	"
555-560	" " " " "	20)	"			"
560-565	" " " " "	15)	"			"
565-570	Essentially fresh granite	35)	"	Tr	.04	"
570-575	" " "	35)	"			"
575-580	" " "	35)	"			"
580-585	" " "	25)	"	.005	.07	"
585-590	Aplite and fresh granite	25)	"			"
590-595	" " " "	25)	"			"
595-600	" " " "	30)	"			"
600-605	" " " " Minor alteration	25)	"			"
605-610	" " " " " "	30)	"	.005	.02	"
610-613	Fresh granite	65)	"			"

End of hole at 613 feet.

*Note-all assays are sludge assays except as noted below.
Nil values of SO3 determined by lemping.
All core and sludges lumped.

	Sludge Assays		Core Assays		Weighted Average	
Footage	Au	Sb	Au	Sb	Au	Sb
230-235	.005	.92	.005	.95	.005	.93
235-240	No Sludge 233-242'		.005	.32	.005	.32
240-245	.005	.66	.075	.13	.035	.41
245-250	.010	2.84	.005	.38	.010	2.60
250-255	.010	.21	Tr	.86	.010	.29

DIAMOND DRILL HOLE NO. 63-63

Driller's Notes

Date Start: 5/24/55
Finish: 8/14/55

Driller: Manning
Helpers: Berkell
Anderson
M. Smith

Footage	Remarks
0 - 65	Pipe driving. Blasted several boulders.
65 - 70	Drilled, cemented.
70 - 75	Cement did not set. Drilled to 75', cemented.
75 - 80	Drilled to 80', cemented.
80 - 85	Drilled to 85', cemented. Decomposed granite.
85 - 90	Drilled 15' cement and on to 90'. Cemented.
90 - 95	Drilled 20' cement and on to 95'. Cemented. Drilled out cement and cased to AX.
95 -115	Quartzite and sand. Cemented.
115-125	Drilled 25' cement and on to 125'. Quartzite and fresh granite. Brownish-grey sludge. Cemented.
125-135	Drilled 11' cement and on to 135'. Fresh granite and sand pockets. Hole caving from 119'. Cemented.
135-145	Drilled 15' cement and on to 145'. Either decomposed granite or sand. Cemented.
145-155	Drilled 10' cement and on to 155'. No core -- sand or decomposed granite. Brown sludge.
155-165	Weathered and fresh granite. Brown to grey sludge. Cemented.
	Drilled 20' cement. Hole went crooked. Cemented.
165-180	Drilled 15' cement and on to 180'. Broken fresh granite. Sludge varied in color from grey to rusty brown. Lots of sandy sludge. Cemented.
	Drilled 25' cement and hole went crooked. Cemented.
180-185	Drilled 18' cement and on to 185'. Fresh, weathered granite. Sludge varied from milky grey to rusty brown.
185-195	Weathered fresh granite. Brownish grey sludge.

Footage	Remarks
195-200	Fresh granite, slightly weathered. Harder and very broken. Sludge varied from grey to milky grey.
200-205	Fresh granite. Very broken. Sludge varied from brownish grey to milky.
205-210	Fresh granite. Greenish-grey sludge. Very soft and broken. Hole caving at 201' and at 185 to 195'. Lost some sludge water. Cemented.
	Drilled 30' cement.
210-215	Lots of talc. Milky and grey sludge.
215-220	Hard. Milky sludge.
220-223	Very hard. Milky and grey sludge. Core blocked.
223-235	Milky to blue sludge. Lost sludge water from 232-233'.
235-242	No sludge return. Hole caving at 118'.
	Cased to ~~EX~~ at 242'. Cemented casing in.
	Drilled 7' cement.
242-245	Milky blue sludge.
245-250	Heavy gouge. Very soft. Sludge turned from milky to dark blue at 247'.
250-255	Some gouge. Very soft and broken. Blue to grey sludge.
255-275	Some gouge. Very soft and broken. Grey sludge. Lost most of sludge water at 270½'. Used sawdust.
275-280	Some gouge. 50% sludge water return. Cemented.
	Drilled 42' cement.
280-285	Gouge. Lost all sludge water at 282'. Cemented.
	Cement did not set.
285-288½	Some gouge. No sludge. Put 1/2 gallon sawdust in hole, got 90% water return.
288½-295	Very soft. Gouge. Milky and grey sludge. Cemented.
	Drilled 15' cement.
295-300	Soft and gougy. Milky and grey sludge.
300-305	Gougy. Thick milky sludge.

Footage	Remarks
305-310	Gouge. Thick milky and grey sludge.
310-315	Very soft. Thick light-grey sludge.
315-320	Dark grey sludge to 319'. Light grey sludge 319 to 320'.
320-325	Very broken, some gouge. Medium to light grey sludge. 50% water return.
325-330	Very broken, some gouge. Milky blue and medium grey sludge. 90% water return.
330-335	Very soft. Milky grey sludge. Good water return.
335-340	Very soft. Sludge turned dark grey at 336'. Good water return.
340-350	Gouge and very soft. Thick dark grey and light grey sludge. 50% water return to 345'. 90% from 345 to 350'.
350-360	Very soft and gouge. Grey and blue-grey sludge. Poor water return to 353', very good from 353 to 360'.
360-369	Very soft and gouge. Sludge return very good. Sludge varied in color from thick dark grey to light grey, occasionally milky blue grey.
369-380	Soft and gouge. Very good sludge return. Milky grey sludge. Hole caving from 360 to 380'.
380-390.	Had to wash and drill from 350 to 380'. Sludge turned from grey to blue-grey at 384' and back to grey at 388'. Had trouble pulling rods.
390-400	Washed and drilled 30' to bottom. Soft and gouge. Medium grey sludge. 60% sludge water return.
400-405	Washed and drilled from 350 to 400'. Some gouge. Poor sludge return. Hole caving badly. Cemented.
	Cement did not set. Washed and drilled to bottom and cemented again.
	Hit cement from 347 to 355'.
	Hole open from 355 to 364' -- no cement. Had gauge and core at 364'. Drilled to 377' and cemented.
	Hole evidently making water; cement will not set. Drilled and washed from 335 to 405'.
	Pulled 242' EX casing and reamed from 242 to 400'. Cased to EX to 400'.
405-410	Fresh granite and gouge. Grey and milky-grey sludge.

Footage	Remarks
410-420	Some gouge. Thick grey and milky-grey sludge. Very broken.
420-434	Hard and broken fresh granite. Milky-grey sludge.
434-438	Altered. Milky-blue sludge.
438-449	Fresh. Sludge milky-blue from 445 to 446. Soft streaks.
449-454	Mixed fresh and altered granite. Some sulfides and antimony. Blue-grey sludge.
454-479	Fresh, hard and broken. Milky grey sludge.
479-484	Very soft. Milky grey sludge.
484-491	Fresh granite. Milky-blue sludge. Some gouge.
491-494	Altered. Very soft and gouge. Bluish-grey sludge.
494-505	Fresh granite and gouge. Very soft and broken. Thick grey sludge.
505-520	Very soft fresh granite. Thick milky-grey sludge.
520-525	Fresh granite and gouge. Grey sludge.
525-529	Fresh granite. Grey sludge. Stringer of stibnite.
529-535	Fresh granite with altered seams. Milky-blue and grey sludge. Stringer of stibnite, some sulfides.
535-542	Fresh granite. Milky-grey sludge.
542-547	Fresh granite. Grey sludge.
547-554	Slightly altered granite. Sulfides and antimony. Very soft and broken, some gouge. Thick blue-grey sludge.
554-565	Fresh granite with altered seams. Very soft and gouge. Very thick blue-grey sludge.
565-570	Fresh granite. Very soft to 567 feet, harder to 570 ft. Medium-grey sludge.
570-580	Fresh granite; soft to 575 ft., harder 575 to 580 ft. Grey sludge, thick sludge from 570 to 575 ft.
580-585	Fresh granite and gouge. Soft in streaks. Thick grey sludge.
585-595	Fresh granite with gouge streaks. Thick grey and blue-grey sludge.
595-604	Fresh granite; some sulfides. Very soft to 600 ft., much harder from 600 to 604 ft. Grey sludge.

No. MC-63 - page 5

Footage	Remarks
604-609	Fresh granite, some gouge. Grey sludge.
609-613	Fresh granite, a few soft streaks. Grey sludge.

End of hole

Maps submitted with
Field Team final report

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR-

March 10, 1954

Defense Minerals Exploration Administration
1201 North Division Street
Spokane 2, Washington

Re: Docket DMEA 2636
Contract Idm-E 453

lemen:

d are five copies each of logs of the following
ill holes:

Airport Area

MC-55

MC-56

drilled under the subject contract in
r and October, 1953.

Yours very truly

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

COORDINATES: 19,952.1 N
20,419.4 E

ELEVATION: 6,546.5

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-55

BEARING: S 47° 22' E

INCLINATION: Minus 50°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -100	Overburden. Fresh granite boulders and gravel. Iron stained along fractures		TR			
100-105	Bedrock at 100 ft. Fresh granite. Iron stained along fractures.	48	Nil			BX
105-110	Fresh granite. Iron stained along fractures	70	"	.005	.05	"
110-115	" " " " " "	60	"			"
115-120	" " " " " "	66	"			"
120-125	" " " " " "					
	Aplite 123-124'	28	"			"
125-130	Fresh granite. " " " "	60	"			"
130-135	" " " " " "	45	Tr	.005	.03	"
135-140	" " " " " "	55	Nil			"
140-145	" " " " " "	55	"			"
145-150	Altered granite & aplite, fine grained sulfides in fractures 145 to 147'. Fresh granite 147 to 150'	40	"			"
150-155	Fresh granite. Iron stained along fractures	45	Tr	.005	.03	"
155-160	Fresh granite to 156'. Aplite 156 to 160'. Iron stained along fractures	45	Nil			"
160-165	Fresh granite. Iron stained along fractures	80	Tr	.005	.06	"
165-170	" " " " " "	90	Tr	Tr	.06	"
170-175	" " " " " "	100	Nil	.005	.04	"
175-180	Fresh granite to 178'. Completely altered granite with sulfide smears in fractures 178 to 180'	75	"	.005	.07	"
180-185	Completely altered aplite and granite with fine grained sulfides	10	"	.045	.06	"
185-190	Completely altered granite with fine grained sulfides	90	"	.045	.14	"
190-195	" " " " " " "	25	"	.030	.07	"
195-200	" " " " " " "	30	"	.010	.06	"
200-205	Fresh granite	50	"			"
205-210	" "	85	"			"
210-215	" "	35	"	.005	.07	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
215-220	Fresh granite	5	Nil			BX
220-225	Aplite and granite. Very slightly altered	60	"			"
225-230	Fresh granite. Aplite with fine grained sulfides 226 to 227'	50	"			"
230-235	Fresh granite.	65	"			"
235-240	" "	55	"	.010	.05	"
240-245	Aplite. Very minor fine grained sulfides	40	"			"
245-250	Fresh granite to 247'. Partially altered (60% alt.) granite with fine grained sulfides 247 to 250'	55	"			"
250-255	Altered granite with fine grained sulfides	5	"			"
255-260	Partially altered granite (50% alt.) to 257'. Fresh granite 257 to 260'	50	"	.030	.14	"
260-265	Altered granite with fine grained sulfides	35	"			"
265-270	Granite: fresh 265-266'; altered 266-267'; fresh 267-270'	95	"			"
270-275	Fresh granite to 273'. Altered granite with fine grained sulfides 273-275'	60	"			"
275-280	Altered granite with fine grained sulfides. Brecciated 278 to 280'	90	"			"
280-285	Aplite with fine grained sulfides to 284'. Fresh granite 284 to 285'	60	"			"
285-290	Fresh granite	55	"	.030	.06	"
290-295	Fresh granite to 292'. Altered granite with fine grained sulfides 292-293'. Fresh granite 293 to 295'	95	"			"
295-300	Mixed fresh and altered granite and aplite	90	"			AX from 297'
300-305	Fresh granite to 302'. Altered granite with fine grained sulfides 302 to 305'	85	"	.010	.06	AX
305-310	Completely altered granite with fine grained sulfides	70	"	.030	.13	"
310-315	" " " " " " "	55	"	.030	.12	"
315-320	" " " " " " "	70	"	.115	.17	"
320-325	" " " " " " "	80	"	.135	.06	"
325-330	" " " " " " "	70	"	.050	.12	"
330-335	Fresh granite 332-333'	40	"	.040	.05	"
335-340	Completely altered granite with fine grained sulfides. Brecciated, soft	20	"	.035	.08	"

Footage	Mineralogy	% Recovery	% NO3	Oz. Au	% Sb	Size Core
340-345	Completely altered granite with fine grained sulfides. Brecciated, soft	5	Nil	.015	.16	AX
345-350	Mineralized aplite	10	"	.015	.12	"
350-355	Altered granite with fine grained sulfides. Patches of fresh granite	25	Tr	.030	.04	"
355-360	No core recovery	0	Nil	.040	.07	"
360-365	Aplite	20	"	.040	.07	"
365-370	Essentially fresh granite. Aplite 369-370'	95	"	.020	.06	"
370-375	Aplite. Patches of fresh granite	65	Tr	.015	.05	"
375-380	Granite, essentially fresh	55	Nil			"
380-385	" " "	65	"			"
385-390	" " "	35	"	.005	.04	"
390-395	Fresh granite to 393'. Aplite 393 to 395'	15	"			"
395-400	Aplite. Patches of partially altered (30% alt.) granite	70	.04			"
400-405	Essentially fresh granite. Patches of alteration	90	Tr			"
405-410	Fresh granite	95	Tr			"
410-415	" "	100	Nil	.010	.05	"
415-420	" "	45	"			"
420-425	Aplite and fresh granite	20	"			"
425-430	Fresh granite	40	"			"
430-435	Partially altered granite (60% alt.)	90	"			"
435-440	Fresh granite with minor patches of alteration	90	"	.015	.04	"
440-445	Fresh granite, somewhat (30%) altered from 443-445'	90	"			"
445-450	Fresh granite	90	"			"
450-455	Aplite	80	"			"
455-460	Aplite with some small patches of fresh granite	95	"			"
460-465	Aplite to 462', altered granite 462-463', fresh granite 463-465'	85	"	.010	.07	"
465-470	Fresh granite; minor patches of alteration	85	"			"
470-475	Very slightly altered granite to 472. Aplite 472-475'	80	"			"
475-480	Aplite to 476'. Fresh granite 476 to 480'	75	"			"
480-485	Fresh granite	80	"			"
485-490	Fresh granite to 489'. Aplite 489-490'	60	"	Tr	.05	"
490-495	Aplite to 491'. Fresh granite 491-495'	100	"			"
495-500	Fresh granite	55	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
500-505	Completely altered granite with fine grained sulfides to 594'. Fresh granite 594-595'	90	Nil			AX
505-510	Altered granite (70% alt.) to 507'. Fresh gr. 507-510'	80	"			"
510-515	Fresh granite	70	"	.015	.06	"
515-520	Fresh granite to 516½. Altered granite 516½-520'	45	"			"
520-525	Fresh granite and aplite	35	"			"
525-530	Granite: fresh to 527'; altered 527-529'; fresh 529-530'	90	"			"
530-535	Altered granite to 531'. Aplite with scattered sulfides 531-535'	90	"			"
535-540	Aplite	45	"	.040	.06	"
540-545	Aplite to 542'; altered granite 542-543'; fresh granite and aplite 543-545'	80	"			"
545-550	Aplite with scattered sulfides	25	"			"
550-555	Completely altered granite to 551'. Fresh granite and aplite 551-555'	25	"			"
555-560	Aplite	55	"			"
560-565	Aplite to 563. Altered granite with fine grained sulfides 563-565'	35	"	.010	.06	"
565-570	Altered granite with fine grained sulfides to 566'. Fresh granite 566-570'	55	"			"
570-575	Fresh granite. Aplite 572-573'	75	"			"
575-580	Fresh granite.	65	"			"
580-585	Fresh Granite; scattered patches of alteration	90	"			"
585-590	Fresh granite and aplite to 589'; altered aplite 589-590'	40	"	.015	.07	"
590-595	Altered aplite to 592'. Completely altered granite 592-595'	85	"			"
595-600	Completely altered granite	40	"			"
600-605	" " "	70	"			"
605-610	" " " to 608'. Fresh granite 608 to 610'	35	"			"
610-615	Fresh granite	20	"	.050	.08	"
615-620	" "	20	"			"
620-625	Partially altered granite (60% alt.) to 623'. Fresh granite 623 to 625'	35	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
625-630	Fresh granite, some aplite	40	Nil			AX
630-635	Completely altered granite	25	"			"
635-640	Fresh granite to 638'. Aplite 638-639'. Altered granite (70% alt.) 639-640'	75	"	.045	Tr	"
640-645	Hard aplite	60	"			"
645-650	Fresh granite	65	Tr			EX
650-655	" "	50	Nil			"
655-660	" "	100	"			"
660-665	" "	50	"	.005	.04	"
665-670	" "	100	"			"
670-675	" "	45	"			"
675-680	" "	90	"			"
680-685	" "	85	"			"
685-690	" " to 687'. Hard, fresh aplite 687-690'	100	"	.005	.04	"
690-695	" " to 692'. " " " 692-695'	95	"			"
695-700	" "	25	"			"
700-705	Hard, fresh aplite to 702'. Fresh granite 702-705'	100	"			"
705-710	Fresh granite and aplite. 2" altered granite with fine grained sulfides at 707'	90	"			"
710-715	Hard, fresh aplite; some fresh granite	95	"	.005	.03	"
715-720	Hard aplite; minor alteration	75	"			"
720-725	Fresh granite. Aplite 724-725'	40	"			"
725-730	Fresh granite	100	"			"
730-735	" " 6" altered granite with fine grained sulfides at 735'	95	"			"
735-740	Fresh granite	95	"	.005	.03	"
740-745	Aplite to 742'. Fresh granite 742-745'	95	"			"
745-749	Mixed aplite and fresh granite	95	"			"

End of hole at 749 feet.

Note: All assays are sludge assays. Trace and nil values of WO3 determined by lamping; numerical values determined by assay All core and sludges lamped.

Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 8/22/53. Finished: 9/19/53.

March 10, 1954

Collar location of Hole [illegible]-56 is subject to some doubt. Collar will be resurveyed Carlin[illegible] of 1954.

Tentative location:

Coordinates: Approx. 19,729 N

" 20,106 E

Elevation: " 6,546

COORDINATES: _____

_____

ELEVATION: _____

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-56

BEARING: S 47° E

INCLINATION: Minus 50°

Footage	Mineralogy	% Recovery	% NO_3	Oz. Au	% Sb	Size Core
0 -121	Overburden. Fresh granite boulders, gravel & sand		Nil			
121-125	Fresh granite, iron stained along fractures	5	No sludge sample			HX
125-130	" " " " " "	20	Nil	Tr	.04	"
130-135	" " " " " "	30	"	"	.07	"
135-140	Aplite, some fresh granite. Iron stained along fract.	30	No sludge sample			"
140-145	Aplite, iron stained along fractures	20	No sludge sample			"
145-150	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	20	Nil	.015	.05	"
150-155	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	50	"	.030	.12	"
155-160	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	100	"	.030	.06	"
160-165	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	"	.030	.02	"
165-170	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	80	"	.095	.03	"
170-175	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	"	.060	.04	"
175-180	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	No sludge sample			"
180-185	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	Nil	.030	.03	"
185-190	Aplite, small seams of fine-grained sulfides	95	"	Tr	.02	"
190-195	" " " " " " "	60	"	.025	.02	"
195-200	" " " " " " "	55	Tr	.025	.03	"
200-205	" " " " " " "	25	Nil)			"
205-210	Partially altered granite (70% alt.)	15	Tr)			"
210-215	Completely altered granite. Fine-grained sulfides	30	Tr)	.060	.09	"
215-220	Completely altered granite, some aplite. Fine grained sulfides	70	Nil)			"
220-225	Completely altered with fine grained sulfides to 222'. Fresh granite 222-225'	80	Nil)			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
225-230	Essentially fresh granite (10% alt.)	55	Nil			BX
230-235	Fresh granite to 232'. Altered (80% alt.) granite with fine grained sulfides 232-235'	40	"			"
235-240	Altered granite (70% alt.)	30	"	.015	.05	"
240-245	Partially altered granite (40% alt.) Small sulfide seams at 242'	45	"			"
245-250	Partially altered aplite and granite (40% alt.) Some sulfide smears	75	Tr			"
250-255	Essentially fresh granite (10-15% alt.) Fine grained sulfides at 252'	60	Nil			"
255-260	Essentially fresh granite (10% alt.)	50	"			"
260-265	Fresh granite to 262', aplite 262 to 265'	75	"	.010	.04	"
265-270	Fresh granite, minor patches of alteration	50	"			"
270-275	Fresh granite	60	"			"
275-280	Aplite, some fresh granite to 278'. Altered granite with fine grained sulfides 278-280'	70	Tr			"
280-285	Altered granite with fine grained sulfides to 283'. Fresh granite 283-285'	50	Nil			AX from AX 283'
285-290	Fresh granite, patches of aplite	35	"	.015	.04	
290-295	Fresh granite to 292'. Altered granite (70% alt.) with fine grained sulfides 292-295'	25	Tr			"
295-300	Essentially fresh granite with patches of alteration	65	Nil			"
300-305	" " " " " " "	70	Nil			"
305-310	Altered granite (65% alt.) Some finegrained sulfides	50	"			"
310-315	" " " " " " " "	30	Tr	.015	.05	"
315-320	" " " " " " " "	35	Nil			"
320-325	Fresh granite	35	"			"
325-330	Fresh granite. Aplite 329-330'	50	Nil			"
330-335	Aplite; minor fresh granite	55	"			"
335-340	Aplite to 339'; altered granite with fine grained sulfides 339-340'	25	"	.015	.02	"
340-345	Altered granite (80% alt.) with patches of fresh gr.	70	"			"
345-350	Fresh granite	5	"			"

Footage	Mineralogy	Recovery	WO3	Oz. Au	% Sb	Size Core
350-355	Slightly altered granite (15% alt.)	35	Nil			AX
355-360	Fresh granite to 356'; completely altered granite with fine grained sulfides 356-360	80	"			"
360-365	Altered granite to 361'; fresh granite 361-365'	10	"	.010	.02	"
365-370	Fresh granite	30	"			"
370-375	Granite; fresh 370-372'; altered 372-374'; fresh 374-375'	45	"			"
375-380	Fresh granite	50	Nil			"
380-385	" "	35	"			"
385-390	Granite, some minor alteration to 387'. Aplite 387-390'	20	"	.015	.02	"
390-395	Aplite and partially altered granite to 392'. Fresh granite 392-395'	60	"			"
395-400	Fresh granite	35	"			"
400-405	Altered granite (75% alt.) with fine grained sulfides	40	"			"
405-410	Altered granite to 406'; aplite 406-410'	45	"			"
410-415	Aplite with fine grained sulfides to 412'; fresh granite 412-413'; aplite 413-415'	60	"	.025	.05	"
415-420	Essentially fresh granite (10% alt.)	40	"			"
420-425	" " " Minor alteration	65	"			"
425-430	" " " " " to 427'; Aplite 427-30'	35	"			"
430-435	Aplite to 431'; altered granite with fine grained sulfides 431-432'; fresh granite 432-435'	50	"			"
435-440	Fresh granite with patches of alteration. Some aplite	35	.02	.060	.04	"
440-445	Fresh granite; patches of alteration 440-442'	60	Nil			"
445-450	Fresh granite	95	"			"
450-455	Fresh granite, some aplite	60	Nil			"
455-460	Fresh granite to 456'; aplite with patches of fresh granite 456-460'	95	"			"
460-465	Fresh granite; minor aplite	65	"	.020	.03	"
465-470	" "	80	"			"
470-475	" " to 472'. Altered aplite with fine grained sulfides 472-475'	95	"			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
475-480	Fresh granite, altered at 476'	90	Nil			AX
480-485	" " aplite 484-- 485'	90	"			"
485-490	Aplite, some fine grained sulfides	95	"	.010	Tr	"
490-495	Fresh granite	95	"			"
495-500	" "	95	"			"
500-505	Aplite to 503'; fresh granite 503-505'	100	"			"
505-510	Fresh granite to 508'; altered granite (70% alt.) with fine grained sulfides 508-510'	100	"			"
510-515	Essentially fresh granite, minor alteration. Some aplite	100	"	.025	.04	"
515-520	Essentially fresh granite, minor alteration. Aplite with fine grained sulfides 518-520'	95	"			"
520-525	Aplite, few fine grained sulfides 520-523'. Fresh granite 523-525'	100	"			"
525-530	Fresh granite to 527'; aplite with fine grained sulfides 527-530'	95	"			"
530-535	Aplite to 532'; fresh granite 532-535'	95	"			"
535-540	Fresh granite to 538'; partially altered granite (50% alt.) to 540'	100	"	.020	.04	"
540-545	Aplite to 541'; fresh granite 541-545'	95	"			"
545-550	Fresh granite	90	"			"
550-555	" "	95	"			"
555-560	" "	95	"			"
560-565	Fresh granite to 562'; aplite with fine grained sulfides 562-565'	95	"	.010	.02	"
565-570	Fresh granite to 567'; altered granite (75% alt.) with fine grained sulfides 567-570'	85	"			"
570-575	Fresh granite to 571'; aplite with fine grained sulfides 571-575'	95	"			"
575-580	Fresh granite	80	"			"
580-585	" "	80	"			"
585-590	" "	100	"	.040	.33	"
590-595	" "	100	"			"
595-600	" "	55	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
600-605	Granite, fresh except altered 601-602 & 603-604'	95	Tr			AX
605-610	Fresh granite	60	Nil			"
610-615	" " , patches of alteration	90	Tr	.005	.07	"
615-620	Aplite	95	Nil			"
620-625	Aplite to 622'; fresh granite 622-625'	95	"			"
625-630	Fresh granite to 628'. Aplite 628-630'	90	Nil			"
630-635	Aplite to 631'; altered granite with fine grained sulfides to 632'; aplite to 635'	90	"			"
635-640	Aplite to 636'; fresh granite 636-640'	80	"	.005	.02	"
640-645	Aplite	60	"			"
645-650	Aplite to 649'; fresh granite 649-650'	85	Tr			"
650-655	Fresh granite	90	Nil			"
655-660	Aplite to 658'; fresh granite 658-660'	70	.04			"
660-665	Partially altered granite (60% alt.) to 661'; essentially fresh granite 661-665'	60	Tr	.005	.01	"
665-670	Fresh granite, patches of alteration	40	Nil			"
670-675	Mainly aplite, some fresh granite	70	Tr			"
675-680	Fresh granite	80	Tr			"
680-685	" "	35	Nil			"
685-690	" "	70	"	Tr	.03	"
690-695	" "	40	"			"
695-700	Fresh granite to 696'; aplite 696-700'	55	"			"
700-705	Fresh granite	35	"			"
705-710	Fresh granite to 706'; aplite 706-707'; fresh granite 707-710'	50	"			"
710-715	Fresh granite to 712'; aplite 712-715'	70	"	.005	.03	"
715-720	" "	75	"			"
720-725	" "	80	Tr			"
725-730	Fresh granite, some aplite	90	Nil			"
730-735	" "	50	"			"
735-740	Granite: fresh to 736; altered 736-738'; aplite 738-740'	60	"	Tr	.03	"
740-745	Fresh granite. Patch of altered granite at 743'	50	"			"
745-748	" "	50	"			"
	End of hole at 748 feet					

NOTE: All assays are sludge assays. Trace and Nil values of WO3 determined by lamping. Numerical values determined by assay. All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co. Date started: 9/22/53; finished 10/28/1953

COPY

FROM BRADLEY MINING CO.
YELLOW PINE MINE AND SMELTER
STIBNITE, IDAHO

FOR

March 10, 1954

Defense Minerals Exploration Administration
1201 North Division Street
Spokane 2, Washington

Re: Docket DMEA 2636
Contract Idm-E 453

Gentlemen:

Enclosed are five copies each of logs of the following diamond drill holes:

Airport Area

MC-55

MC-56

These holes were drilled under the subject contract in August, September and October, 1953.

Yours very truly

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COORDINATES: 19,952.1 N
20,419.4 E

ELEVATION: 6,546.5

Yellow Pine Area
Stibnite, Idaho

DIAMOND DRILL HOLE No. AC-55

BEARING: S 47° 22' E

INCLINATION: Minus 50°

PAGE 1

Footage	Mineralogy	% Recovery	% SO3	Oz. Au	% Sb	Size Core
0 -100	Overburden. Fresh granite boulders and gravel. Iron stained along fractures		Tr			
100-105	Bedrock at 100 ft. Fresh granite. Iron stained along fractures.	48	Nil			BX
105-110	Fresh granite. Iron stained along fractures	70	"	.005	.05	"
110-115	" " " " " "	60	"			"
115-120	" " " " " "	66	"			"
120-125	" " " " " "					
	Aplite 123-124'	28	"			"
125-130	Fresh granite. " " " "	60	"			"
130-135	" " " " " "	45	Tr	.005	.03	"
135-140	" " " " " "	55	Nil			"
140-145	" " " " " "	55	"			"
145-150	Altered granite & aplite, fine grained sulfides in fractures 145 to 147'. Fresh granite 147 to 150'	40	"			"
150-155	Fresh granite. Iron stained along fractures	45	Tr	.005	.03	"
155-160	Fresh granite to 156'. Aplite 156 to 160'. Iron stained along fractures	45	Nil			"
160-165	Fresh granite. Iron stained along fractures	80	Tr	.005	.06	"
165-170	" " " " " "	90	Tr	Tr	.06	"
170-175	" " " " " "	100	Nil	.005	.04	"
175-180	Fresh granite to 178'. Completely altered granite with sulfide smears in fractures 178 to 180'	75	"	.005	.07	"
180-185	Completely altered aplite and granite with fine grained sulfides	10	"	.045	.06	"
185-190	Completely altered granite with fine grained sulfides	90	"	.045	.14	"
190-195	" " " " " " "	25	"	.030	.07	"
195-200	" " " " " " "	30	"	.010	.06	"
200-205	Fresh granite	50	"			"
205-210	" "	85	"			"
210-215	" "	35	"	.005	.07	"

Footage	Mineralogy	% Recovery	% MoS_2	Oz. Au	% Sb	Size Core
215-220	Fresh granite	5	Nil			BX
220-225	Aplite and granite. Very slightly altered	60	"			"
225-230	Fresh granite. Aplite with fine grained sulfides 226 to 227'	50	"			"
230-235	Fresh granite.	65	"			"
235-240	" "	55	"	.010	.05	"
240-245	Aplite. Very minor fine grained sulfides	40	"			"
245-250	Fresh granite to 247'. Partially altered (60% alt.) granite with fine grained sulfides 247 to 250'	55	"			"
250-255	Altered granite with fine grained sulfides	5	"			"
255-260	Partially altered granite (50% alt.) to 257'. Fresh granite 257 to 260'	50	"	.030	.14	"
260-265	Altered granite with fine grained sulfides	35	"			"
265-270	Granite: fresh 265-266'; altered 266-267'; fresh 267-270'	95	"			"
270-275	Fresh granite to 273'. Altered granite with fine grained sulfides 273-275'	60	"			"
275-280	Altered granite with fine grained sulfides. Brecciated 278 to 280'	90	"			"
280-285	Aplite with fine grained sulfides to 284'. Fresh granite 284 to 285'	60	"			"
285-290	Fresh granite	55	"	.030	.06	"
290-295	Fresh granite to 292'. Altered granite with fine grained sulfides 292-293'. Fresh granite 293 to 295'	95	"			"
295-300	Mixed fresh and altered granite and aplite	90	"			AX from 297'
300-305	Fresh granite to 302'. Altered granite with fine grained sulfides 302 to 305'	85	"	.010	.06	AX
305-310	Completely altered granite with fine grained sulfides	70	"	.030	.13	"
310-315	" " " " " " "	55	"	.030	.12	"
315-320	" " " " " " "	70	"	.115	.17	"
320-325	" " " " " " "	80	"	.135	.06	"
325-330	" " " " " " "	70	"	.050	.12	"
330-335	Fresh granite 332-333'	40	"	.040	.05	"
335-340	Completely altered granite with fine grained sulfides. Brecciated, soft	20	"	.035	.08	"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
340-345	Completely altered granite with fine grained sulfides. Brecciated, soft	5	Nil	.015	.16	AX
345-350	Mineralized aplite	10	"	.015	.12	"
350-355	Altered granite with fine grained sulfides. Patches of fresh granite	25	Tr	.030	.04	"
355-360	No core recovery	0	Nil	.040	.07	"
360-365	Aplite	20	"	.040	.07	"
365-370	Essentially fresh granite. Aplite 369-370'	95	"	.020	.06	"
370-375	Aplite. Patches of fresh granite	65	Tr	.015	.05	"
375-380	Granite, essentially fresh	55	Nil			"
380-385	" "	65	"			"
385-390	" "	35	"	.005	.04	"
390-395	Fresh granite to 393'. Aplite 393 to 395'	15	"			"
395-400	Aplite. Patches of partially altered (30% alt.) granite	70	.04			"
400-405	Essentially fresh granite. Patches of alteration	90	Tr			"
405-410	Fresh granite	95	Tr			"
410-415	" "	100	Nil	.010	.05	"
415-420	" "	45	"			"
420-425	Aplite and fresh granite	20	"			"
425-430	Fresh granite	40	"			"
430-435	Partially altered granite (60% alt.)	90	"			"
435-440	Fresh granite with minor patches of alteration	90	"	.015	.04	"
440-445	Fresh granite, somewhat (30%) altered from 443-445'	90	"			"
445-450	Fresh granite	90	"			"
450-455	Aplite	80	"			"
455-460	Aplite with some small patches of fresh granite	95	"			"
460-465	Aplite to 462', altered granite 462-463', fresh granite 463-465'	85	"	.010	.07	"
465-470	Fresh granite; minor patches of alteration	85	"			"
470-475	Very slightly altered granite to 472. Aplite 472-475'	80	"			"
475-480	Aplite to 476'. Fresh granite 476 to 480'	75	"			"
480-485	Fresh granite	80	"			"
485-490	Fresh granite to 489'. Aplite 489-490'	60	"	Tr	.05	"
490-495	Aplite to 491'. Fresh granite 491-495'	100	"			"
495-500	Fresh granite	55	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
500-505	Completely altered granite with fine grained sulfides to 594'. Fresh granite 594-595'	90	Nil			AX
505-510	Altered granite (70% alt.) to 507'. Fresh gr. 507-510'	80	"			"
510-515	Fresh granite	70	"	.015	.06	"
515-520	Fresh granite to 516½. Altered granite 516½-520'	45	"			"
520-525	Fresh granite and aplite	35	"			"
525-530	Granite: fresh to 527'; altered 527-529'; fresh 529-530'	90	"			"
530-535	Altered granite to 531'. Aplite with scattered sulfides 531-535'	90	"			"
535-540	Aplite	45	"	.040	.06	"
540-545	Aplite to 542'; altered granite 542-543'; fresh granite and aplite 543-545'	80	"			"
545-550	Aplite with scattered sulfides	25	"			"
550-555	Completely altered granite to 551'. Fresh granite and aplite 551-555'	25	"			"
555-560	Aplite	55	"			"
560-565	Aplite to 563. Altered granite with fine grained sulfides 563-565'	35	"	.010	.06	"
565-570	Altered granite with fine grained sulfides to 566'. Fresh granite 566-570'	55	"			"
570-575	Fresh granite. Aplite 572-573'	75	"			"
575-580	Fresh granite.	65	"			"
580-585	Fresh Granite; scattered patches of alteration	90	"			"
585-590	Fresh granite and aplite to 589'; altered aplite 589-590'	40	"	.015	.07	"
590-595	Altered aplite to 592'. Completely altered granite 592-595'	85	"			"
595-600	Completely altered granite	40	"			"
600-605	" " "	70	"			"
605-610	" " " to 608'. Fresh granite 608 to 610'	35	"			"
610-615	Fresh granite	20	"	.050	.08	"
615-620	" "	20	"			"
620-625	Partially altered granite (60% alt.) to 623'. Fresh granite 623 to 625'	35	"			"

Footage	Mineralogy	% Recovery	% MO3	Oz. Au	% Sb	Size Core
625-630	Fresh granite, some aplite	40	Nil			BX
630-635	Completely altered granite	25	"			"
635-640	Fresh granite to 638'. Aplite 638-639'. Altered granite (70% alt.) 639-640'	75	"	.045	Tr	"
640-645	Hard aplite	60	"			"
645-650	Fresh granite	65	Tr			BX
650-655	" "	50	Nil			"
655-660	" "	100	"			"
660-665	" "	50	"	.005	.04	"
665-670	" "	100	"			"
670-675	" "	45	"			"
675-680	" "	90	"			"
680-685	" "	85	"			"
685-690	" " to 687'. Hard, fresh aplite 687-690'	100	"	.005	.04	"
690-695	" " to 692'. " " " 692-695'	95	"			"
695-700	" "	25	"			"
700-705	Hard, fresh aplite to 702'. Fresh granite 702-705'	100	"			"
705-710	Fresh granite and aplite. 2" altered granite with fine grained sulfides at 707'	90	"			"
710-715	Hard, fresh aplite; some fresh granite	95	"	.005	.03	"
715-720	Hard aplite; minor alteration	75	"			"
720-725	Fresh granite. Aplite 724-725'	40	"			"
725-730	Fresh granite	100	"			"
730-735	" " 6" altered granite with fine grained sulfides at 735'	95	"			"
735-740	Fresh granite	95	"	.005	.03	"
740-745	Aplite to 742'. Fresh granite 742-745'	95	"			"
745-749	Mixed aplite and fresh granite	95	"			"

End of hole at 749 feet.

Note: All assays are sludge assays. Trace and nil values of MO3 determined by lamping; numerical values determined by assay. All core and sludges lamped.

Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 8/22/53. Finished: 9/19/53.

March 10, 1954

Collar location of Hole MC-56 is subject to some doubt. Collar will be resurveyed during summer of 1954.

Tentative location:

Coordinates:	Approx.	19,729 N
	"	20,106 E
Elevation:	"	6,546

COORDINATES: _____

_____

ELEVATION: _____

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. MC-56

BEARING: S 47° E

INCLINATION: Minus 50°

Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 -121	Overburden. Fresh granite boulders, gravel & sand		Nil			
121-125	Fresh granite, iron stained along fractures	5	No sludge sample			BX
125-130	" " " " " "	20	Nil	Tr	.04	"
130-135	" " " " " "	30	"	"	.07	"
135-140	Aplite, some fresh granite. Iron stained along fract.	30	No sludge sample			"
140-145	Aplite, iron stained along fractures	20	No sludge sample			"
145-150	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	20	Nil	.015	.05	"
150-155	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	50	"	.030	.12	"
155-160	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	100	"	.030	.06	"
160-165	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	"	.030	.02	"
165-170	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	80	"	.095	.03	"
170-175	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	"	.060	.04	"
175-180	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	90	No sludge sample			"
180-185	Aplite, small seams of fine-grained sulfides. Iron stained along fractures	85	Nil	.030	.03	"
185-190	Aplite, small seams of fine-grained sulfides	95	"	Tr	.02	"
190-195	" " " " " " "	60	Tr	.025	.02	"
195-200	" " " " " " "	55	Tr	.025	.03	"
200-205	" " " " " " "	25	Nil			"
205-210	Partially altered granite (70% alt.)	15	Tr			"
210-215	Completely altered granite. Fine-grained sulfides	30	Tr	.060	.09	"
215-220	Completely altered granite, some aplite. Fine grained sulfides	70	Nil			"
220-225	Completely altered with fine grained sulfides to 222'. Fresh granite 222-225'	80	Nil			"

Footage	Mineralogy	% Recovery	% MoS_2	Oz. Au	% Sb	Size Core
225-230	Essentially fresh granite (10% alt.)	55	Nil			BX
230-235	Fresh granite to 232'. Altered (80% alt.) granite with fine grained sulfides 232-235'	40	"			"
235-240	Altered granite (70% alt.)	30	"	.015	.05	"
240-245	Partially altered granite (40% alt.) Small sulfide seams at 242'	45	"			"
245-250	Partially altered aplite and granite (40% alt.) Some sulfide smears	75	Tr			"
250-255	Essentially fresh granite (10-15% alt.) Fine grained sulfides at 252'	60	Nil			"
255-260	Essentially fresh granite (10% alt.)	50	"			"
260-265	Fresh granite to 262', aplite 262 to 265'	75	"	.010	.04	"
265-270	Fresh granite, minor patches of alteration	50	"			"
270-275	Fresh granite	60	"			"
275-280	Aplite, some fresh granite to 278'. Altered granite with fine grained sulfides 278-280'	70	Tr			"
280-285	Altered granite with fine grained sulfides to 283'. Fresh granite 283-285'	50	Nil			AX from
285-290	Fresh granite, patches of aplite	35	"	.015	.04	AX 283'
290-295	Fresh granite to 292'. Altered granite (70% alt.) with fine grained sulfides 292-295'	25	Tr			"
295-300	Essentially fresh granite with patches of alteration	65	Nil			"
300-305	" " " " " " "	70	Nil			"
305-310	Altered granite (65% alt.) Some finegrained sulfides	50	"			"
310-315	" " " " " " " "	30	Tr	.015	.05	"
315-320	" " " " " " " "	35	Nil			"
320-325	Fresh granite	35	"			"
325-330	Fresh granite. Aplite 329-330'	50	Nil			"
330-335	Aplite; minor fresh granite	55	"			"
335-340	Aplite to 339'; altered granite with fine grained sulfides 339-340'	25	"	.015	.02	"
340-345	Altered granite (80% alt.) with patches of fresh gr.	70	"			"
345-350	Fresh granite	5	"			"

Footage	Mineralogy	Recovery	NO3	Oz. Au	% Sb	Size Core
350-355	Slightly altered granite (15% alt.)	35	Nil			AX
355-360	Fresh granite to 356'; completely altered granite with fine grained sulfides 356-360	80	"			"
360-365	Altered granite to 361'; fresh granite 361-365'	10	"	.010	.02	"
365-370	Fresh granite	30	"			"
370-375	Granite; fresh 370-372'; altered 372-374'; fresh 374-375'	45	"			"
375-380	Fresh granite	50	Nil			"
380-385	" "	35	"			"
385-390	Granite, some minor alteration to 387'. Aplite 387-390'	20	"	.015	.02	"
390-395	Aplite and partially altered granite to 392'. Fresh granite 392-395'	60	"			"
395-400	Fresh granite	35	"			"
400-405	Altered granite (75% alt.) with fine grained sulfides	40	"			"
405-410	Altered granite to 406'; aplite 406-410'	45	"			"
410-415	Aplite with fine grained sulfides to 412'; fresh granite 412-413'; aplite 413-415'	60	"	.025	.05	"
415-420	Essentially fresh granite (10% alt.)	40	"			"
420-425	" " " Minor alteration	65	"			"
425-430	" " " " " to 427'; Aplite 427-30'	35	"			"
430-435	Aplite to 431'; altered granite with fine grained sulfides 431-432'; fresh granite 432-435'	50	"			"
435-440	Fresh granite with patches of alteration. Some aplite	35	.02	.060	.04	"
440-445	Fresh granite; patches of alteration 440-442'	60	Nil			"
445-450	Fresh granite	95	"			"
450-455	Fresh granite, some aplite	60	Nil			"
455-460	Fresh granite to 456'; aplite with patches of fresh granite 456-460'	95	"			"
460-465	Fresh granite; minor aplite	65	"	.020	.03	"
465-470	" "	80	"			"
470-475	" " to 472'. Altered aplite with fine grained sulfides 472-475'	95	"			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
475-480	Fresh granite, altered at 476'	90	Nil			AX
480-485	" " aplite 484 - 485'	90	"			"
485-490	Aplite, some fine grained sulfides	95	"	.010	Tr	"
490-495	Fresh granite	95	"			"
495-500	" "	95	"			"
500-505	Aplite to 503'; fresh granite 503-505'	100	"			"
505-510	Fresh granite to 508'; altered granite (70% alt.) with fine grained sulfides 508-510'	100	"			"
510-515	Essentially fresh granite, minor alteration. Some aplite	100	"	.025	.04	"
515-520	Essentially fresh granite, minor alteration. Aplite with fine grained sulfides 518-520'	95	"			"
520-525	Aplite, few fine grained sulfides 520-523'. Fresh granite 523-525'	100	"			"
525-530	Fresh granite to 527'; aplite with fine grained sulfides 527-530'	95	"			"
530-535	Aplite to 532'; fresh granite 532-535'	95	"			"
535-540	Fresh granite to 538'; partially altered granite (50% alt.) to 540'	100	"	.020	.04	"
540-545	Aplite to 541'; fresh granite 541-545'	95	"			"
545-550	Fresh granite	90	"			"
550-555	" "	95	"			"
555-560	" "	95	"			"
560-565	Fresh granite to 562'; aplite with fine grained sulfides 562-565'	95	"	.010	.02	"
565-570	Fresh granite to 567'; altered granite (75% alt.) with fine grained sulfides 567-570'	85	"			"
570-575	Fresh granite to 571'; aplite with fine grained sulfides 571-575'	95	"			"
575-580	Fresh granite	80	"			"
580-585	" "	80	"			"
585-590	" "	100	"	.040	.33	"
590-595	" "	100	"			"
595-600	" "	55	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
600-605	Granite, fresh except altered 601-602 & 603-604'	95	Tr			AX
605-610	Fresh granite	60	Nil			"
610-615	" " , patches of alteration	90	Tr	.005	.07	"
615-620	Aplite	95	Nil			"
620-625	Aplite to 622'; fresh granite 622-625'	95	"			"
625-630	Fresh granite to 628'. Aplite 628-630'	90	Nil			"
630-635	Aplite to 631'; altered granite with fine grained sulfides to 632'; aplite to 635'	90	"			"
635-640	Aplite to 636'; fresh granite 636-640'	80	"	.005	.02	"
640-645	Aplite	60	"			"
645-650	Aplite to 649'; fresh granite 649-650'	85	Tr			"
650-655	Fresh granite	90	Nil			"
655-660	Aplite to 658'; fresh granite 658-660'	70	.04			"
660-665	Partially altered granite (60% alt.) to 661'; essentially fresh granite 661-665'	60	Tr	.005	.01	"
665-670	Fresh granite, patches of alteration	40	Nil			"
670-675	Mainly aplite, some fresh granite	70	Tr			"
675-680	Fresh granite	80	Tr			"
680-685	" "	35	Nil			"
685-690	" "	70	"	Tr	.03	"
690-695	" "	40	"			"
695-700	Fresh granite to 696'; aplite 696-700'	55	"			"
700-705	Fresh granite	35	"			"
705-710	Fresh granite to 706'; aplite 706-707'; fresh granite 707-710'	50	"			"
710-715	Fresh granite to 712'; aplite 712-715'	70	"	.005	.03	"
715-720	" "	75	"			"
720-725	" "	80	Tr			"
725-730	Fresh granite, some aplite	90	Nil			"
730-735	" "	50	"			"
735-740	Granite: fresh to 736; altered 736-738'; aplite 738-740'	60	"	Tr	.03	"
740-745	Fresh granite. Patch of altered granite at 743'	50	"			"
745-748	" "	50	"			"
	End of hole at 748 feet					

NOTE: All assays are sludge assays. Trace and Nil values of WO3 determined by lamping. Numerical values determined by assay. All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co. Date started: 9/22/53; finished 10/28/1953

COPY

January 12, 1954

Defense Minerals Exploration Administration
1201 North Division Street
Spokane 2, Washington

Re: Docket DMEA 2636
Contract Idm-E 453

Gentlemen:

Enclosed are five copies each of logs of the following diamond drill holes:

Southeast of Pit Area

B-218
B-219

Hennessey Creek Area

B-220
B-221

North Tunnel Area

FC-1
FC-2

These holes were drilled under the subject contract in July and August, 1953. The logs of the two holes drilled in the Airport Area (Holes MC-55 and MC-56) have not yet been completed. They will be forwarded at a later date.

Yours very truly

BRADLEY MINING CO.

K G Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COORDINATES: 29,588.8 N
20,388.8 E

ELEVATION: 6,072.5

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. B-218

BEARING: S 25° E

INCLINATION: Minus 10°

Footage	Mineralogy	% Mercury	% WO_3	Oz. Au	% Sb	Size Core
0 - 5	No core	0	No sludge			Nx
5 - 10	No core	0	No sludge			"
10 - 15	Brecciated and sericitized aplite.	46	Nil	.005	.07	Nx
15 - 20	" " " "	90	"	.010	.22	"
20 - 25	Fault breccia with small amounts stibnite and specks of pyrite	16	"	Tr	.15	"
25 - 30	Fault breccia with small amounts stibnite and specks of pyrite	44	"	.010	.04	"
30 - 35	Fault breccia, sericitized	20	"	.005	.05	"
35 - 40	Fault breccia with some streaks of stibnite	50	"	.005	.12	"
40 - 45	Fault breccia, chloritized and sericitized	6	"	Tr	.05	"
45 - 50	" " " " "	46	"	Tr	.05	"
50 - 55	" " " " "	60	"	.005	.08	"
55 - 60	Brecciated and altered granite with streaks of stibnite and pyrite specks	43	"	.015	.08	"
60 - 65	Brecciated and altered granite with streaks of stibnite and pyrite specks 60-60.5 greenish grey granite; 60.5-68 aplite; 68-70 greenish black and grey granite with abundance of fine grained pyrite	98	"	.010	.09	"
65 - 70	Brecciated and altered granite, grey color, pyrite specks and stibnite in cracks	76	"	.015	.30	"
70 - 75	Brecciated and altered granite, stibnite at 72-73 ft. and at 74.5-75 ft.	66	"	.015	1.02	"
75 - 80	Brecciated and altered granite. Good stibnite at 75-76 and 79-80 ft.	42	"	.010	3.86	"
80 - 85	Brecciated and altered granite. Stibnite from 81-83; 83-85 fine grained granite less altered	90	"	.015	1.41	"
85 - 90	Altered granite. Sulfides in cracks	58	"	.005	.63	"
90 - 95	" " " " " 90-92 dark grey color; 92-95 whitish grey color and friable	99	"	.010	.20	"
95 -100	Fault breccia; 95-96.5 white-grey; 96.5-100 dark grey, black streaks in cracks.	76	"	.020	.17	"

Diamond Drill Hole No. B-218

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
100-105	Whitish-grey brecciated and altered granite	90	Nil	.010	.13	Bx
105-110	Brecciated and sericitized altered granite, gray	70	"	.015	.15	"
110-115	Mainly sericite and chlorite, shistose granite. 114-115 altered granite	10	"	.010	.17	"
115-120	115-118 altered granite, brecciated. 118-119.5 gneisoid granite. 119.5-120 altered granite.	46)	"	.015	.18	"
		)	"	.010	.13	"
120-125	120-121 brecciated altered granite. 121-125 aplite	56	"	.015	.09	"
125-130	Brecciated granite, bleached and highly sericitized	13	"	.015	.09	"
130-135	Fault breccia, chloritized and sericitized, very friable	58	"	.005	.08	"
135-140	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	5	"	.005	.09	"
140-145	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	10	"	.005	.09	"
145-150	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	70	"	Tr	.07	"
150-155	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	98	"	.005	.09	"
155-160	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	90	"	Tr	.10	"
160-165	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	16	"	Tr	.19	"
165-170	165-165.5 brecciated granite; 165.5-167.5 gouge with stibnite; 167.5-168.5 altered dacite; 168.5-170 fresh dacite	90	"	.005	.19	"
170-175	Dacite (porphyritic)	72	"	.005	.57	"
175-180	D D	99	"	Tr	.06	"
180-185	180-184 dacite; 184-185 brecciated dacite	70	"	Tr	.05	"
185-190	Highly brecciated and altered granite with streaks of black sulfides	60	"	.010	.06	"
190-195	190-192 highly brecciated granite with abundant streaks of sulfides; 192-193 grayish white altered granite; 193-195 brecciated and altered granite, gray color; stibnite in fracture at 194.	90	"	.010	.10	"
195-200	Brecciated and altered granite; stibnite at 197; 199-200 gneisoid granite	58	"	Tr	.13	Ax from 199

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
200-205	200-202 gneissoid granite; 202-205 brecciated altered fine grained granite	34	Nil	Tr	.04	AX
205-210	Altered fine grained granite	72	"	.005	.05	"
210-215	210-213 altered granite; 213-214 altered gneissoid granite; 214-215 fault breccia	58	"	.010	.11	"
215-220	Fault breccia, chloritized and sericitized	22	"	.005	.03	"
220-225	Highly brecciated rock. Streaks of stibnite. Iron stained quartz	20	"	.030	.04	"
225-230	225-226 white breccia. 226-227 breccia, sericitized and chloritized with stibnite in cracks. 227-228 white breccia with red streak at 228. 228-229.5 greenish chlorite, schistose. 229.5-230 white breccia	90	"	.005	.05	"
230-235	White and pale green brecciated aplite and granite	70	"	.005	.035	"
235-240	Chloritized and sericitized brecciated rock. Black gouge at 235.5	72	"	.005	.045	"
240-245	Mainly gneissoid altered granite, partly brecciated	74	"	Tr	.03	"
245-250	245-247, white breccia. 247-250 chloritized and sericitized fault breccia with specks of reddish (Fe) stained quartz. Some Sb streaks in crack at 248	86	"	.005	.12	"
250-255	250-250.5 sericitized and chloritized breccia. 250.5-252.5 white breccia. 252.5-253 grey breccia and somewhat altered gneissoidal granite. 253-255 fine grained granite, somewhat altered and brecciated. Red specks present. Specks of stibnite and pyrite in crack at 254 ft.	76	"	.005	.04	"
255-260	Slightly altered gneissoid granite. Sericitized in places	89	"	Tr	.02	"
260-265	Slightly altered and bleached gneissoid granite. Sb and pyrite at 260'.	28	"	Tr	.05	"
265-270	Bleached breccia. Mineralized with Sb and pyrite	6	"	Tr	.04	"
270-275	Chloritized and sericitized breccia with some red specks of quartz	12	"	.005	.05	"
275-280	275-279 breccia. 279-280 gneissoid granite, slightly altered	24	"	Tr	.03	"
280-285	280-282.5 gneissoid granite, rather fresh. 282.5-285 altered gneissoid granite; altered 40%. Specks of pyrite at 284, red spots.	86	"	Tr	.03	"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
285-290	Aplite	11	Nil	Tr	.02	Ax
290-295	290-293 aplite. 293-295 slightly altered gneissoid granite with red specks	15	"	Tr	.03	"
295-300	Almost fresh gneissoid granite	14	"	Tr	.03	"
300-305	No core	0	"	Tr	.04	"
305-310	Grayish white breccia, sericitized. Red specks and pyrite specks seen. Some stibnite streaks	7	"	Tr	.02	"
310-315	White breccia aplite. Slightly tinted red, med. grain	5	"	Tr	.04	"
315-320	" " "	8	"	Tr	.04	"
320-325	" " "	17	"	Tr	.02	"
325-330	" " " Specks of pyrite at 327; red quartz at 330	21	"	Tr	.04	"
330-335	" " " Medium grain	26	"	Tr	.04	"
335-340	" " " " "	20	"	Tr	.03	"
340-345	Whitish grey breccia, black gouge at 345, specks of sulfides	30	"	Tr	.02	"
345-350	Whitish gray breccia, streaks of Sb and specks of pyrite	6	"	Tr	.05	"
350-355	Breccia, sericitized and chloritized. Streaks of sulfides	30	"	Tr	.04	"
355-360	Mainly sericitized breccia, strong schistosity, gray	60	"	Tr	.03	"
360-365	Gneissoid schist, blackish gray. Aplite at 361 & 364	98	"	Tr	.03	"
365-370	" " " " Aplite (altered) at 366-367	99	"	Tr	.05	"
370-375	" " " "	99	"	Tr	.04	"
375-380	" " " " Aplite at 379	68	"	Tr	.06	"
380-385	" " " "	58	"	Tr	.05	"
385-390	" " " "	34	"	Tr	.06	"
390-395	390-391 fault zone, brecciated aplite. 391-395 gneissoid schist	60	"	.005	.05	Bx from 391
395-400	Aplite	15	"	Tr	.07	Bx
400-405	Altered fine grain granite	42	"	Tr	.08	"
405-410	405-409 aplite; 409-410 altered schist	16	"	Tr	.04	"
410-415	Chloritized and sericitized schist	30	"	.005	.05	"
415-420	Altered and bleached granite	38	"	.005	.04	"
420-425	Altered granite	14	"	.010	.06	"
425-430	425-427 gneissoid schist. 427-430 bleached and sericitized schist	68	"	.005	.06	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
430-435	430-432 altered schistose granite. 432-435 gneissoid schist	28	Nil	Tr	.05	Ex
435-440	Gneissoid schist	96	"	.005	.06	"
440-445	Mainly altered schist and aplite	18	"	.005	.07	"
445-450	Gneissoid schist	98	"	.005	.09	"
450-455	Gneissoid schist, brecciated aplite 454-455	36	"	Tr	.05	"
455-460	Brecciated aplite, altered	14	"	.005	.05	"
460-465	Brecciated aplite, sericitized in places	48	"	.005	.05	"
465-470	Gneissoid schist	80	"	.020	.08	"
470-475	Gneissoid schist, slightly bleached at 470-471	30	"	.005	.06	"
475-480	Slightly altered fine grained granite (30% alteration) to 479. 479-480 gneissoid schist	50	"	.010	.03	"
480-485	Gneissoid schist	20	"	.005	.05	"
485-490	Gneissoid schist (bleached slightly)	48	"	.005	.06	"
490-495	" " " "	52	"	.005	.05	"
495-500	Altered granite and gneissoid schist. Aplite at 500'	30	"	.005	.04	"

End of hole at 500 feet

Note: All assays are sludge assays. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/6/53 - finished 7/17/53

COORDINATES: 29,593 N
20,391 E

ELEVATION: 6,073

YELLOW PINE MINE
STIBNITE, IDAHO

DIAMOND DRILL HOLE NO. B-219

BEARING: S 85° E

INCLINATION: Minus 10°

Page 1

Footage	Mineralogy	% Recovery	% WO 3	Oz. Au	% Sb	Size Core
0 - 5	Brecciated & altered granite with streaks of fine-grained sulfides	6	Nil	0.015	0.04	NX
5 - 10	Brecciated & altered granite with streaks of fine-grained sulfides	40	"	0.005	.04	"
10 - 15	Brecciated granite, mineralized with minor stibnite and specks of pyrite	22	"	.010	.04	from 11' NX
15 - 20	Mineralized granite and aplite with fine-grained pyrite and minor stibnite	8	"	.035	.03	"
20 - 25	Fractured aplite with fine-grained pyrite and minor stibnite	8	"	.025	.06	"
25 - 30	25-26, aplite with streaks of stibnite and pyrite. 26-30, fault breccia with sericite and chlorite. Streaks of stibnite in places	66	"	.010	.05	"
30 - 35	Fault breccia with sericite and chlorite. Streaks of stibnite in places	48	"	.020	.05	"
35 - 40	35-36, fault breccia with sericite and chlorite. Streaks of stibnite in places 36-40, altered dacite dike	15	"	.005	.05	"
40 - 45	Altered dacite dike	82	"	.005	.05	"
45-50	Partly altered dacite dike	65	"	.015	.06	"
50 - 55	" " " "	100	"	Tr	.06	"
55 - 60	Slightly altered granite	90	"	Tr	.10	"
60 - 65	60-63' fresh granite; 63-65 slightly altered granite, specks of sulfides	70	"	Tr	.12	"
65-70	Fresh granite	52	"	.005	.06	"
70-75	Altered granite with minor stibnite and specks of pyrite	70	"	.005	.07	"
75 - 80	Altered granite with minor stibnite & specks of pyrite	40	"	.005	.06	"
80 - 85	80-81' altered granite. 81-85' mica schist, chloritized. Breccia at 85	46	"	Tr	.04	"
85 - 90	Mica schist	56	"	Tr	.07	"
90 - 95	Mica schist, brecciated from 91 to 92 ft.	74	"	Tr	.04	"
95 -100	Mica schist, brecciated & chloritized. Quartz at 96.	50	"	Tr	.04	"

Diamond Drill Hole No. S-219 - page 2

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
100-105	Mica schist, brecciated and chloritized	16	Nil	Tr	.06	BX
105-110	105-108 mica schist, brecciated and chloritized, 108-110 altered granite, streaks of sulfides in cracks	76	"	Tr	.06	"
110-115	Mica schist, brecciated	45	"	Tr	.03	"
115-120	115-116 mica schist, 116-120 brecciated mica schist	15	"	Tr	.07	"
120-125	Fault breccia, completely altered, mainly white colored, soft	94	"	Tr	.04	"
125-130	Fault breccia, completely altered, mainly white colored, soft. Schistose 128-130'	86	Nil	Tr	.04	"
130-135	Fault Breccia, completely altered, mainly white colored, soft	76	"	Tr	.06	"
135-140	Fault breccia, completely altered, mainly white colored, soft	85	"	Tr	.05	"
140-145	Fault breccia, completely altered, mainly white colored, soft	78	"	.005	.04	"
145-150	Fault breccia, completely altered, mainly white colored, soft	18	"	Tr	.04	"
150-155	Fault breccia, completely altered, mainly white colored, soft	40	"	Tr	.04	"
155-160	Fault breccia, completely altered, mainly white colored, soft. Minor sulfides at 160'.	50	"	Tr	.04	"
160-165	Fault breccia, completely altered, mainly white colored, soft	25	"	Tr	.04	"
165-170	Fault breccia, completely altered, mainly white colored, soft	65	"	Tr	.04	"
170-175	Altered granite	8	"	Tr	.03	"
175-180	" " 176-180' dacite dike	72	"	Tr	.07	"
180-185	Dacite dike	90	"	Tr	.06	AX from
185-190	Brecciated dacite 185-186'. Fault breccia, greenish	65	"	Tr	.03	" 182'
190-195	Fault breccia, completely altered, greenish color, somewhat schistose	50	"	.005	.02	"
195-200	Fault breccia, completely altered, greenish color, somewhat schistose	14	"	Tr	.04	"
200-205	Fault breccia, completely altered, greenish color, somewhat schistose	60	"	Tr	.05	"
205-210	Fault breccia, completely altered, greenish color, somewhat schistose	82	"	Tr	.04	"

Diamond Drill Hole No. S-219 - page 3

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
210-215	Fault breccia, green & schistose to 213, white to 215	77	Nil	Tr	.05	AX
215-220	" " white colored	15	"	Tr	.02	"
220-225	" " " " . Specks of sulfides	10	"	Tr	.02	"
225-230	" " " "	38	"	Tr	.02	"
230-235	" " " " . Specks of sulfides	40	"	Tr	.03	"
235-240	" " " " to 237, completely altered granite and aplite to 240'. Specks of sulfides.	12	"	Tr	.02	"
240-245	Completely altered granite and aplite	12	"	Tr	.04	"
245-250	No core recovery	0	"	Tr	.03	"
250-255	" " "	0	"	Tr	.04	"
255-260	" " "	0	"	Tr	.05	"
260-265	" " "	0	"	Tr	.05	EX from 262
265-270	Completely altered granite and aplite	10	"	Tr	.03	"
270-275	Granite & aplite, about 70% altered. Very minor sulfides	48	"	Tr	.04	"
275-280	" " " " " "	25	"	Tr	.02	"
280-285	" " " " " "	28	"	Tr	.02	"
285-290	" " " " " "	15	"	Tr	Tr	"
290-291	" " " " " "	15	"			

End of hole at 291 feet.

Note: All assays are sludge assays. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/21/53; finished 7/26/53.

COORDINATES: 30,182.6 N
19,516.5 E

ELEVATION: 6,366.3

YELLOW PINE MINE
STIBNITE, IDAHO

DIAMOND DRILL HOLE NO. B-220

BEARING: S 3° 59' E

INCLINATION: Minus 60°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 20	Overburden, granitic soil and weathered granite boulders					NX
20 - 25	" " " " " " "		Nil	Tr	.01	"
25 - 30	" " " " " " "		"	Tr	.01	"
30 - 35	" " " " " " "		"	Tr	.01	"
35 - 40	Bedrock at 35'. Intensely weathered granite	29	"	Tr	.01	"
40 - 45	Intensely weathered granite	36	"	Tr	.01	"
45 - 50	" " "	28	"	Tr	.02	"
50 - 55	50-51, weathered granite as above. 51-55, fresh granite with limonite along fractures	75	"	Tr	.02	"
55 - 60	Fresh granite, limonite in fractures	94	"	Tr	.02	"
60 - 65	" " " " " , slight alteration from 64-65	68	"	Tr	.02	BX
65 - 70	Altered granite (40% alteration). Limonite along fractures. Some streaks of sulfides at 68'. Aplite 69-70'	62	"	Tr	.02	"
70 - 75	Altered granite and aplite (40% altered) with limonite and some streaks of sulfides in fractures	35	"	Tr	.02	"
75 - 80	Aplite, slightly brecciated and thoroughly stained with iron oxides. Limonite along fractures	36	"	Tr	.02	"
80 - 85	Aplite, iron stained, limonite along fractures. Streaks of sulfides along some fractures	45	"	Tr	.02	"
85 - 90	Aplite with streaks and specks of sulfides along fractures. Some limonite at 90.	79	"	Tr	.02	"
90 - 95	Aplite, streaks and specks of sulfides along fractures	52	"	Tr	.02	"
95 -100	Aplite. Streaks of sulfides along some fractures	58	"	Tr	.02	"
100-105	Aplite. Specks of sulfides along fracture at 101 only	52	"	Tr	.02	"
105-110	Aplite. Streaks and specks of sulfides and specks of pyrite at 107	74	"	Tr	.01	"
110-115	Aplite. Specks of sulfides at 111	58	"	Tr	.02	AX from
115-120	Aplite. Streaks of sulfides in fracture at 120	14	"	Tr	.01	" 113
120-125	Aplite and slightly altered granite	36	"	Tr	.02	"

Diamond Drill Hole No. B-220 - page 2

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
125-130	125-127½, altered granite. 127½-130, aplite. Streaks and specks of sulfides	62	Nil	Tr	.01	AX
130-135	Aplite, streaks of sulfides	15	"	Tr	.01	"
135-140	Somewhat altered granite	16	"	Tr	.01	"
140-145	Aplite	7	"	Tr	.01	"
145-150	Aplite, specks of sulfides	34	"	Tr	.02	"
150-155	Aplite	36	"	Tr	.02	"
155-160	Aplite, streaks and specks of sulfides at 160	54	"	Tr	.02	"
160-165	Aplite, " " " " " .	40	"	Tr	.02	"
165-170	Altered granite, streaks of sulfides	57	"	Tr	.02	"
170-175	Altered granite (60%), specks of sulfides	15	"	Tr	.02	"
175-180	175-178 altered granite with streaks of sulfides. 178-180 aplite	85	"	Tr	.04	"
180-185	Aplite, some altered granite	32	"	.005	.04	"
185-190	" " " "	58	"	Tr	.04	"
190-195	" " " " . Sulfides along fractures	48	"	Tr	.02	"
195-200	" " " "	54	"	Tr	.02	"
200-205	" " " "	58	"	Tr	.02	"
205-210	" , breccia and gouge 209-210	32	"	.010	.02	"
210-215	"	50	"	Tr	.04	"
215-220	215-218, aplite. 218-220 partially (25%) altered granite	82	"	Tr	.04	"
220-225	Partially (25%) altered granite	60	"	Tr	.04	"
225-230	Essentially fresh granite. Aplite at 226 & 230	56	"	Tr	.01	"
230-235	230-233, aplite. 233-235, fresh granite	45	"	Tr	.01	"
235-240	Mainly fresh granite	56	"	Tr	.01	"
240-245	240-243, aplite. 243-245, partially (20%) altered granite	58	"	Tr	.17	"
245-250	245-247, aplite. 247-250, altered (40%) granite	38	"	Tr	.17	"
250-255	Altered (60%) granite. Specks and streaks of sulfides	15	"	Tr	.17	"
255-260	" " " " " " " "	15	"	.005	.03	"
260-265	Fresh granite	78	"	Tr	.03	"
265-270	" " to 267, aplite to 270	67	"	Tr	.03	"
270-275	Aplite to 271, fresh granite to 273, slightly altered (25%), granite to 275	56	"	.005	.02	"
275-278	Fresh granite	78	"	.005	.02	"

End of hole at 278 feet

Note: All assays are sludge assays. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/31/53; finished 8/8/53

COORDINATES: 30,175.6 N

19,509.7 E

ELEVATION: 6,367.0

YELLOW PINE MINE
STEWART, IDAHO

DIAMOND DRILL HOLE NO. B-221

BEARING: S 63° 16' W

INCLINATION: Minus 60°

Page 1

Footage	Mineralogy	Recovery %	WO3 %	Oz. Au	% Sb	Size Core
0 - 5	Overburden	0				NX
5 - 10	"	0	Nil	Tr	.01	"
10 - 15	"	0	"			"
15 - 20	Bedrock at 15', no core recovery	0	"			"
20 - 25	Intensely weathered granite	38	"			"
25 - 30	" " "	92	"	Tr	.01	"
30 - 35	Somewhat altered granite (30% altered) weathered along fractures	92	"			"
35 - 40	Somewhat altered granite (30% altered) weathered along fractures	70	"			BX
40 - 45	40-41½ granite, stained with limonite along fractures. 41½-45 mainly aplite, limonite along fractures.	96	"	Tr	.02	"
45 - 50	Altered (30% alteration) granite and aplite, stained with limonite	83	"			"
50 - 55	Aplite, iron stained along fractures	70	"			"
55 - 60	" " " " "	100	"	Tr	.01	"
60 - 65	Altered (30%) granite, limonite along fractures	90	"			"
65 - 70	" " " " "	95	"			"
70 - 75	Somewhat altered aplite, minor granite	90	"	.005	.02	"
75 - 80	" " "	90	"			"
80 - 85	" " "	80	"			"
85 - 90	" " " , some streaks of sulfides	96	"	.005	.01	"
90 - 95	90-92 aplite, 92-95 altered (30%) granite, minor sulfides in fractures	90	"			"
95 -100	Altered (30%) aplite and granite	86	"			"
100-105	Altered (30%) granite	66	"	.005	.02	"
105-110	" " "	64	"			"

Diamond Drill Hole No. B-221 - page 2

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
110-115	Altered (30%) granite	92	Nil			BX
115-120	" " "	94	"	Tr	.03	"
120-125	" " "	80	"			"
125-130	" " "	80	"			"
130-135	" " "	50	"	.005	.01	"
135-140	" " "	82	"			"
140-145	" " " to 143. Fresh granite to 145.	97	"			AX
145-150	Fresh granite, some aplite	94	"	Tr	.01	"
150-155	" " " " . Altered (30%) granite					"
	152-154	42	"			"
155-160	155-156 slightly altered granite; 156-160 aplite	96	"			"
160-165	Altered (30%) granite, some aplite	56	"	Tr	.02	"
165-170	Granite, some aplite. Granite varies from fresh to altered (30%)	95	"			"
170-175	Granite, some aplite. Granite varies from fresh to altered (30%)	95	"	Tr	.02	"
175-180	175-178 fresh granite; 178-180 aplite	70	"			"
180-185	Aplite	60	"			"
185-190	Granite, some aplite. Granite varies from fresh to altered (30%)	34	"	Tr	.02	"
190-195	Altered granite (30%)	70	"			"
195-200	Altered granite (30%). Some fresh granite & aplite	92	"			"
200-205	Mainly altered granite (30%), some fresh granite	86	"	Tr	.03	"
205-210	Essentially fresh granite, minor areas of alteration	60	"			"
210-215	Fresh granite	79	"			"
215-220	Somewhat altered (30%) granite and aplite	64	"	Tr	.02	"
220-225	" " " " " "	18	"			"
225-230	" " " "	36	"			"
230-235	" " " "	58	"	Tr	.02	"
235-240	" " " " . Smears of sulfides		"			
	along fractures	44	"			"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
240-245	Aplite, some altered (30%) granite	84	Nil			AX
245-250	245-246½, aplite; 246½-250 fault breccia & gouge	95	"	Tr	.01	"
250-255	Altered granite (50% altered). Brecciated from 250-251½	90	"			"
255-260	255-257½ altered (30%) granite. 257½-260 aplite	40	"			"
260-265	Altered (30%) granite	80	"	Tr	.02	"
265-270	Altered (30%) granite and aplite	50	"			"
270-275	" " " " "	50	"			"
275-280	" " " " "	60	"			"
280-285	" " " " "	42	"	Tr	.01	"
285-290	" " "	02	"			"
290-295	" " "	46	"	Tr	Tr	"
295-300	" " "	40	"			"
300-305	" " "	52	"			"
305-310	" " " from 305-307. Aplite from 307-310. Sulfide streaks in some fractures	42	"	Tr	.02	BX
310-315	Altered (30%) granite	9	"			"
315-320	" " "	11	"			"
320-325	" " "	54	"	Tr	.02	"
325-330	" " "	15	"			"
330-335	Aplite	68	"	Tr	.03	"
335-340	Slightly altered (20% alt.) granite	38	"			"
340-345	Fresh granite	50	"			"
345-350	" "	50	"	Tr	.02	"
350-355	" "	52	"			"
355-358	" " and aplite	40	"	Tr	.03	"

End of hole at 358 feet.

Note: all assays are sludge assays. Nil values of WO3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 8/9/53; finished 8/19/53

YELLOW PINE MINE
STIBNITE, IDAHO

COORDINATES: 25,937.0 N
20,019.3 E

DIAMOND DRILL HOLE NO. PC-1

ELEVATION: 6,525.7

BEARING: S 61° 42' E
INCLINATION: Plus 1°
Page 1

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 5	Chloritized mica schist	47	No sludge sample			NX
5 - 10	" " "	47	" " "			"
10 - 15	" " "	45	" " "			BX from 12
15 - 20	" " "	50	Nil	.015	.10	"
20 - 25	" " "	37	"	.005	.12	"
25 - 30	" " "	24	"	.020	.05	"
30 - 35	30-32, as above. 32-34, brecciated & sericitized granitic rock, with antimony mineralization. X34-X35' chloritized mica schist	28	"	.050	.08	"
35 - 40	35-37', chloritized mica schist. 37-40' brecciated, completely altered granite, well mineralized with sulfides	32	"	.015	.06	"
40 - 45	Aplite with antimony stringers, pyrite specks	36	"	.020	.09	"
45 - 50	Aplite. Some antimony streaks in cracks	88	"	.020	.16	"
50 - 55	50-51, aplite, with sulfide mineralization. 51-55, mica schist	45	"	.005	.08	"
55 - 60	55-56, mica schist. 56-60, aplite - brecciated at 60	96	"	.005	.05	"
60 - 65	60-64, aplite, mineralized with Sb at 64. 64-65 chloritized mica schist	60	"	.020	.06	"
65 - 70	Chloritized mica schist	88	"	.005	.17	"
70 - 75	70-73, chloritized mica schist. 73-75, breccia with black Sb mineralization	28	"	.005	.21	"
75 - 80	Completely altered granite, well mineralized. Some aplite	55	"	.010	.13	"
80 - 85	" " " " " " "	24	"	.010	.06	"
85 - 90	" " " " " " "	25	"	.010	.12	"
90 - 95	90-91, mica schist. 91-95 completely altered granite, well mineralized with sulfides	92	"	.015	.18	"
95 -100	Completely altered granite, well mineralized with sulfides	48	"	.025	.18	"
100-105	" " " " " " "	30	"	.025	.12	"
105-110	" " " " " " "	46	"	.025	.13	"

Diamond Drill Hole No. FC-1 - page 2

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
110-115	Well mineralized aplite and altered granite	41	Nil	.005	.06	AX
115-120	Mica schist	100	"	Tr	.08	"
120-125	120-123, mica schist. 123-124, aplite. 124-125, mica schist	82	"	.005	.04	"
125-130	Mica schist	100	"	Tr	.05	"
130-135	130-131, mica schist. 131-133½ aplite with specks of pyrite. 133½-135, mica schist	83	"	.005	.06	"
135-140	135-138, mica schist. 138-140 altered aplite	96	"	Tr	.06	"
140-145	140-142 very slightly altered granite. 142-144, aplite, 144-145 mica schist	64	"	Tr	.08	"
145-150	Mica schist. Aplite at 148, gouge at 150	50	"	.005	.08	"
150-155	150-151 slightly altered granite. 151-152 mica schist. 152-155 aplite and altered granite, strongly mineralized	72	"	.025	.29	"
155-160	Mineralized aplite, some altered granite	88	"	.010	.12	"
160-165	Slightly altered (10%) granite and aplite	86	"	Tr	.04	"
165-170	Mainly aplite, some altered granite, somewhat mineralized	40	"	.005	.03	"
170-175	Mainly aplite, some altered granite, somewhat mineralized	66	"	.005	.06	"
175-180	Brecciated aplite, slightly mineralized. Some fresh granite	34	"	Tr	.04	"
180-185	180-182, mica schist. 182-184 aplite. 184-185 mica schist	35	"	.005	.04	"
185-190	Mica schist	30	"	Tr	.11	"
190-195	Aplite	20	"	.005	.06	"
195-200	195-196½, essentially fresh granite; 196½-198½ mica schist; 198½-200, aplite with some fresh granite	100+	"	.005	.06	"
200-205	Mainly fresh granite, some areas of alteration. Abundant pyrite specks at 205	84	"	.010	.07	"
205-210	205-208, sericitized breccia. 208-210, mica schist	36	"	.005	.07	"
210-215	210-213, mica schist. 213-215 altered granite with abundant pyrite specks	32	"	Tr	.05	"
215-220	215-217, altered mica schist. 217-220 mica schist	60	"	.005	.10	"
220-225	Mica schist	55	"	.030	.12	"
225-230	225-227, mica schist. 227-230 aplite	52	"	.010	.08	"
230-235	230-232, mica schist. 232-234½, aplite. 234½-235 mica schist	75	"	.010	.08	"
235-240	235-236½, mica schist. 236½-239 aplite. 239-240 mica schist	100	"	.010	.05	"

Diamond Drill Hole No. FC-1 - page 3

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
240-245	Mica schist	38	Nil	.035	.07	AX
245-250	" "	100	"	.015	.05	"
250-255	" "	84	"	.010	.06	"
255-260	" "	65	"	.005	.05	"
260-265	Fresh Granite	60	"	.005	.09	"
265-270	265-267½, fresh granite; 267½-268½, aplite; 268½-270, granite, some alteration	92	"	.010	.09	"
270-275	Fresh granite; gneissoid	23	"	.005	.10	"
275-280	" " "	100	"	.005	.05	"
280-285	" " "	80	"	.005	.14	"
285-290	" " "	65	"	.005	.11	"
290-295	" " "	70	"	.020	.16	"
295-300	295-296, fresh gneissoid granite; 296-299 altered and mineralized granite; 299-300, fresh granite	92	"	.020	.17	"
300-305	Fresh granite; gneissoid	78	"	.005	.11	"
305-310	Altered and brecciated granite and aplite; mineralized with Sb and pyrite	70	"	.020	.06	"
310-315	Altered, mineralized granite, some aplite	100+	"	.030	.12	"
315-320	Completely altered granite and aplite, well mineralized with sulfides	74	"	.040	.11	"
320-325	Completely altered granite and aplite, well mineralized with sulfides	100	"	.035	.08	"
325-330	Completely altered granite and aplite, well mineralized with sulfides	100	"	.040	.10	"
330-335	Completely altered granite and aplite, well mineralized with sulfides	78	"	.025	.06	"
335-340	Completely altered granite and aplite, well mineralized with sulfides	94	"	.030	.17	"
340-345	Completely altered granite and aplite, well mineralized with sulfides	90	"	.030	.14	"
345-350	Altered granite, some sulfide mineralization. Black gouge at 346	50	"	.010	.04	"
350-355	Altered granite, some fresh areas	60	"	.005	.04	"
355-360	355-357, fresh granite and aplite with pyrite specks; 357-358, gneissoid granite; 358-360, fresh granite	84	"	.005	.05	"
360-365	360-364, fresh granite; 364-365, aplite with streaks of Sb and specks of pyrite	68	"	.005	.06	"

Diamond Drill Hole no. FC-1 - page 4

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
365-370	365-367 aplite with streaks of Sb and pyrite specks. 367-370, fresh granite (patch of aplite at 370)	92	Nil	.015	.08	AX
370-375	Aplite and completely altered granite. Some brecciation and gouge	68	"	.005	.08	"
375-380	375-378 somewhat altered granite. 378-380, aplite	18	"	.010	.05	"
380-385	380-381½, aplite. 381½-385 slightly altered granite	52	"	.005	.06	"
385-390	Mainly fresh granite. Patch of aplite at 386.	20	"	.005	.03	"
390-395	Fresh granite, rich in ferromagnesian minerals	95	"	.005	.06	"
395-400	" " " " " "	100	"	.005	.08	"
400-405	" " " " " "	100	"	.010	.04	"
405-410	" " " " " " Aplite 406-407	76	"	Tr	.04	"
410-415	Fresh granite, rich in ferromagnesian minerals, Aplite 412-414	100	"	.015	.05	"
415-420	Fresh granite, rich in ferromagnesian minerals to 416. Aplite and minor granite 416-420	75	"	.005	.05	"
420-425	Fresh granite and aplite	95	"	.010	.06	"
425-430	Fresh granite	95	"	.010	.04	"
430-435	Granite, 40% altered to 431, fresh gneissoid granite to 435.	98	"	.010	.03	"
435-440	Predominantly fresh gneissoid granite, some patches of alteration	100	"	.005	.05	
440-445	Altered gneissoid granite with streaks of Sb mineralization and specks of pyrite	90	"	.010	.08	"
445-450	Altered (slightly) gneissoid granite with patches of aplite	98	"	.010	.09	"
450-455	Fresh gneissoid granite	80	"	.010	.11	"
455-460	Fresh gneissoid granite, some patches of alteration	98	"	.005	.05	"
460-465	460-463, fresh gneissoid granite. 463-465' aplite	70	"	.010	.05	"
465-470	465-466' aplite. 466-470 gneissoid granite, altered 468-469	100	"	.005	.24	"
470-475	Fresh gneissoid granite	70	"	.010	.08	"
475-476	" " "					
	End of hole at 476 feet					

Note: all assays are sludge assays. Nil values of WO_3 determined by lamping.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/12/53; finished 7/29/53

COORDINATES: 25,968.5 N
19,683.6 E

ELEVATION: 6,524.4

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. PG - 2

BEARING: N 52° 34' W

INCLINATION: Minus 18°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 5	Aplite	100				BX
5 - 10	5-7, aplite; 7-10 fresh granite	100	Nil	Tr	0.02	BX from 4
10 - 15	Fresh granite	96	"	"	0.01	BX
15 - 20	" "	100	"	.005	0.01	"
20 - 25	20-23 aplite; 23-25 fresh granite	100	Tr	Tr	0.01	"
25 - 30	25-27 fresh granite; 27-30 aplite, iron oxide stained	74	Tr	Tr	Tr	"
30 - 35	30-32 aplite; stained with iron oxide. 32-33 fresh granite; 33-35 aplite, iron stained	48	Nil	Tr	0.02	"
35 - 40	Iron stained aplite	60	"	Tr	0.02	"
40 - 45	40-42, aplite, iron stained. 42-45, fresh granite	60	"	Tr	0.02	"
45-50	45-47, fresh granite; 47-50, aplite	96	"	Tr	0.01	"
50 - 55	Aplite, limonite in cracks	63	"	Tr	0.02	"
55 - 60	" " " "	70	"	"	0.02	"
60 - 65	Mainly aplite, fresh granite at 63 ft.	94	"	"	0.02	"
65 - 70	" " , stained with iron oxides	94	"	"	0.02	"
70 - 75	Fresh granite, minor aplite	72	"	"	0.04	"
75 - 80	75-77, very slightly altered granite; 77-78½, aplite; 78½-80, fresh granite	86	"	"	0.04	"
80 - 85	Fresh granite	86	"	"	0.04	"
85 - 90	85-88, iron stained aplite; 88-90, fresh granite	70	"	"	0.01	"
90 - 95	Aplite, brecciated at 91	70	"	"	0.03	"
95 -100	95-96½-aplite; 96½-97½, brecciated aplite, white color; 97½-100, aplite	100	"	"	0.02	"
100-105	Brecciated aplite	72	"	"	0.03	"
105-110	105-107, aplite; 107-110, very slightly altered granite	60	"	"	0.03	"
110-115	Very slightly altered and fractured granite	18	"	"	0.03	"
115-120	115-116, aplite; 116-119, very slightly altered granite; 119-120, aplite	80	"	"	0.05	"
120-125	120-122 breccia and gouge; 122-124½, lamprophyre dike	66	"	"	0.03	"
125-130	Altered granite and aplite (50% altered)	70	"	"	0.01	"
130-135	Somewhat altered (25%) aplite and granite	35	"	"	0.01	"
135-140	" " " " " "	40	"	"	0.01	"
140-145	Aplite	28	"	"	Tr	"

Footage	Mineralogy	% Recovery	% MO_3	Oz. Au	% Sb	Size Core
145-150	Aplite	18	Nil	Tr	Tr	AX
150-155	Fault breccia and gouge, light grey color	5	"	"	"	"
155-160	" " " " " " "	15	"	"	0.03	"
160-165	" " " " " " " to 164'; aplite, 164-165'	10	"	"	0.03	"
165-170	Aplite and slightly altered granite	12	"	"	0.03	"
170-175	Fresh granite	23	"	"	0.03	"
175-180	Granite and aplite, some alteration and brecciation	10	"	"	0.03	"
180-185	" " " " " " "	8	"	"	0.03	"
185-190	Slightly altered granite	14	"	"	0.03	"
190-195	" " "	7	"	"	0.03	"
195-200	" " "	2	"	"	0.02	"
200-205	No core recovery	0	"	Tr	0.02	"
205-210	Lamprophyre dike, gouge at 205-207	68	"	"	0.02	"
210-215	" "	60	"	"	0.02	"
215-220	215-217 lamprophyre dike; 217-220, fresh granite	28	"	"	0.02	"
220-225	Fresh granite	46	"	"	0.02	"
225-230	" " and some aplite	90	"	"	0.02	"
230-235	" "	54	"			"
235-240	" "	62	"	"	0.05	"
240-245	" "	100	"			"
245-250	" "	58	"			"
250-255	Somewhat altered granite (25% alt.). Silicification and fine grained sulfides at 252'	52	"	"	0.04	"
255-260	Somewhat altered granite (25% alt.)	100	"			"
260-265	Fresh fine-grained granite and aplite	60	"			"
265-270	Fresh granite, some aplite	74	"	"	0.04	"
270-275	270-273, fresh granite; 273-275, altered (30%) granite	100	"			"
275-280	Altered granite (30% alt.)	30	"			"
280-285	Fresh granite, minor patches of alteration	12	"	"	0.02	"
285-290	" " " " " "	86	"			"
290-295	" " " " " "	68	"	"	Tr	"
295-300	Aplite, minor granite. Some alteration	78	"	"	0.04	"
305-310	Fresh granite	10	"			XX
300-305	Aplite, minor granite. Some alteration. Fresh granite 304-305	10	"	"	0.01	"
310-315	Fresh granite	20	"			"

Footage	Mineralogy	% Recovery	% WO 3	Oz. Au	% Sb	Size Core
315-320	Fresh Granite	20	Nil			SX
320-325	Aplite and fine-grained fresh granite	48	"	Tr	0.02	"
325-330	Fresh granite. Gouge 328-330	10	"	—	—	"
330-335	Fresh granite, some aplite	17	"			"
335-340	" " " "	25	"	"	0.05	"
340-345	" " " " Altered granite with fine-grained sulfides at 345'	30	"	"	—	"
345-350	Altered granite (75% alt.)	6	"			"
350-355	Aplite and altered granite to 354', fresh granite 354-355'	30	"	"	0.04	"
355-360	Fresh granite	64	"			"
360-365	" "	58	"	—	—	"
365-370	Fine grain granite - fresh	33	"	"	0.02	"
370-375	" " "	60	"	—	—	"
375-380	" " "	44	"	"	0.04	"
380-385	Fresh granite	73	"			"
385-390	" "	90	"	"	0.04	"
390-395	" " , fine grained	70	"			"
395-400	Fine grained granite and aplite	15	"	"	0.01	"
400-405	Fresh granite	24	"			"
405-410	" "	88	"	—	—	"
410-415	", "	76	"	"	0.04	"
415-420	" "	70	"			"
420-425	" "	50	"	—	—	"
425-430	" "	60	"	.005	0.03	"
430-435	" "	56	"			"
435-440	" "	48	"	—	—	"
440-445	" "	32	"	Tr	0.05	"
445-450	" "	52	"			"
450-455	" "	46	"	—	—	"
455-460	" "	25	"			"
460-465	" "	30	"	Tr	0.03	"
465-470	" "	28	"			"
470-475	" "	9	"			"

End of hole at 475 feet

Note: All assays are sludge assays. Trace and Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 7/30/53 - Finished 8/20/53.

January 12, 1954

Defense Minerals Exploration Administration
1201 North Division Street
Spokane 2, Washington

Re: Docket DMEA 2636
Contract Idm-E 453

Gentlemen:

Enclosed are five copies each of logs of the following diamond drill holes:

Southeast of Pit Area

B-218
B-219

Hennessey Creek Area

B-220
B-221

North Tunnel Area

FC-1
FC-2

These holes were drilled under the subject contract in July and August, 1953. The logs of the two holes drilled in the Airport Area (Holes MC-55 and MC-56) have not yet been completed. They will be forwarded at a later date.

Yours very truly

BRADLEY MINING CO.

K. G. Wallace

K. G. Wallace
Assistant Manager

KGW/ja

COORDINATES: 29,588.8 N

20,388.8 N

ELEVATION: 6,072.5

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. B-218

BEARING: S 25° E

INCLINATION: Minus 10°

Page No. 1

Footage	Mineralogy	% Recovery	% NO_3	Oz. Au	% Sb	Size Core
0 - 5	No core	0	No sludge			Nx
5 - 10	No core	0	No sludge			"
10 - 15	Brecciated and sericitized aplite.	46	Nil	.005	.07	Nx
15 - 20	" " " "	90	"	.010	.22	"
20 - 25	Fault breccia with small amounts stibnite and specks of pyrite	16	"	Tr	.15	"
25 - 30	Fault breccia with small amounts stibnite and specks of pyrite	44	"	.010	.04	"
30 - 35	Fault breccia, sericitized	20	"	.005	.05	"
35 - 40	Fault breccia with some streaks of stibnite	50	"	.005	.12	"
40 - 45	Fault breccia, chloritized and sericitized	6	"	Tr	.05	"
45 - 50	" " " " "	46	"	Tr	.05	"
50 - 55	" " " " "	60	"	.005	.08	"
55 - 60	Brecciated and altered granite with streaks of stibnite and pyrite specks	43	"	.015	.08	"
60 - 65	Brecciated and altered granite with streaks of stibnite and pyrite specks 60-60.5 greenish grey granite; 60.5-68 aplite; 68-70 greenish black and grey granite with abundance of fine grained pyrite	98	"	.010	.09	"
65 - 70	Brecciated and altered granite, grey color, pyrite specks and stibnite in cracks	76	"	.015	.30	"
70 - 75	Brecciated and altered granite, stibnite at 72-73 ft. and at 74.5-75 ft.	66	"	.015	1.02	"
75 - 80	Brecciated and altered granite. Good stibnite at 75-76 and 79-80 ft.	42	"	.010	3.86	"
80 - 85	Brecciated and altered granite. Stibnite from 81-83; 83-85 fine grained granite less altered	90	"	.015	1.41	"
85 - 90	Altered granite. Sulfides in cracks	58	"	.005	.63	"
90 - 95	" " " " " 90-92 dark grey color; 92-95 whitish grey color and friable	99	"	.010	.20	"
95 -100	Fault breccia; 95-96.5 white-grey; 96.5-100 dark grey, black streaks in cracks.	76	"	.020	.17	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
100-105	Whitish-grey brecciated and altered granite	90	Nil	.010	.13	Bx
105-110	Brecciated and sericitized altered granite, gray	70	"	.015	.15	"
110-115	Mainly sericite and chlorite, shistose granite. 114-115 altered granite	10	"	.010	.17	"
115-120	115-118 altered granite, brecciated. 118-119.5 gneisoid granite. 119.5-120 altered granite.	46)	"	.015	.18	"
		)	"	.010	.13	"
120-125	120-121 brecciated altered granite. 121-125 aplite	56	"	.015	.09	"
125-130	Brecciated granite, bleached and highly sericitized	13	"	.015	.09	"
130-135	Fault breccia, chloritized and sericitized, very friable	58	"	.005	.08	"
135-140	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	5	"	.005	.09	"
140-145	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	10	"	.005	.09	"
145-150	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	70	"	Tr	.07	"
150-155	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	98	"	.005	.09	"
155-160	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	90	"	Tr	.10	"
160-165	Fault breccia, chloritized and sericitized. Shows schistosity and black streaks of stibnite	16	"	Tr	.19	"
165-170	165-165.5 brecciated granite; 165.5-167.5 gouge with stibnite; 167.5-168.5 altered dacite; 168.5-170 fresh dacite	90	"	.005	.19	"
170-175	Dacite (porphyritic)	72	"	.005	.57	"
175-180	D D	99	"	Tr	.06	"
180-185	180-184 dacite; 184-185 brecciated dacite	70	"	Tr	.05	"
185-190	Highly brecciated and altered granite with streaks of black sulfides	60	"	.010	.06	"
190-195	190-192 highly brecciated granite with abundant streaks of sulfides; 192-193 greyish white altered granite; 193-195 brecciated and altered granite, gray color; stibnite in fracture at 194.	90	"	.010	.10	"
195-200	Brecciated and altered granite; stibnite at 197; 199-200 gneisoid granite	58	"	Tr	.13	Ax from 199

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
200-205	200-202 gneisoid granite; 202-205 brecciated altered fine grained granite	34	Nil	Tr	.04	Ax
205-210	Altered fine grained granite	72	"	.005	.05	"
210-215	210-213 altered granite; 213-214 altered gneisoid granite; 214-215 fault breccia	58	"	.010	.11	"
215-220	Fault breccia, chloritized and sericitized	22	"	.005	.03	"
220-225	Highly brecciated rock. Streaks of stibnite. Iron stained quartz	20	"	.030	.04	"
225-230	225-226 white breccia. 226-227 breccia, sericitized and chloritized with stibnite in cracks. 227-228 white breccia with red streak at 228. 228-229.5 greenish chlorite, schistose. 229.5-230 white breccia	90	"	.005	.05	"
230-235	White and pale green brecciated aplite and granite	70	"	.005	.035	"
235-240	Chloritized and sericitized brecciated rock. Black gouge at 235.5	72	"	.005	.045	"
240-245	Mainly gneisoid altered granite, partly brecciated	74	"	Tr	.03	"
245-250	245-247, white breccia. 247-250 chloritized and sericitized fault breccia with specks of reddish (Fe) stained quartz. Some Sb streaks in crack at 248	86	"	.005	.12	"
250-255	250-250.5 sericitized and chloritized breccia. 250.5-252.5 white breccia. 252.5-253 gray breccia and somewhat altered gneissoidm granite. 253-255 fine grained granite, somewhat altered and brecciated. Red specks present. Specks of stibnite and pyrite in crack at 254 ft.	76	"	.005	.04	"
255-260	Slightly altered gneissoid granite. Sericitized in places	89	"	Tr	.02	"
260-265	Slightly altered and bleached gneissoid granite. Sb and pyrite at 260'.	28	"	Tr	.05	"
265-270	Bleached breccia. Mineralized with Sb and pyrite	6	"	Tr	.04	"
270-275	Chloritized and sericitized breccia with some red specks of quartz	12	"	.005	.05	"
275-280	275-279 breccia. 279-280 gneissoid granite, slightly altered	24	"	Tr	.03	"
280-285	280-282.5 gneissoid granite, rather fresh. 282.5-285 altered gneissoid granite; altered 40%. Specks of pyrite at 284, red spots.	86	"	Tr	.03	"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
285-290	Aplite	11	Nil	Tr	.02	Ax
290-295	290-293 aplite. 293-295 slightly altered gneissoid granite with red specks	15	"	Tr	.03	"
295-300	Almost fresh gneissoid granite	14	"	Tr	.03	"
300-305	No core	0	"	Tr	.04	"
305-310	Grayish white breccia, sericitized. Red specks and pyrite specks seen. Some stibnite streaks	7	"	Tr	.02	"
310-315	White breccia aplite. Slightly tinted red, med. grain	5	"	Tr	.04	"
315-320	" " "	8	"	Tr	.04	"
320-325	" " "	17	"	Tr	.02	"
325-330	" " " Specks of pyrite at 327; red quarts at 330	21	"	Tr	.04	"
330-335	" " " Medium grain	26	"	Tr	.04	"
335-340	" " " " "	20	"	Tr	.03	"
340-345	Whitish gray breccia, black gouge at 345, specks of sulfides	30	"	Tr	.02	"
345-350	Whitish gray breccia, streaks of Sb and specks of pyrite	6	"	Tr	.06	"
350-355	Breccia, sericitized and chloritized. Streaks of sulfides	30	"	Tr	.04	"
355-360	Mainly sericitized breccia, strong schistosity, gray	60	"	Tr	.03	"
360-365	Gneissoid schist, blackish gray. Aplite at 361 & 364	98	"	Tr	.03	"
365-370	" " " " Aplite (altered) at 366-367	99	"	Tr	.05	"
370-375	" " " "	99	"	Tr	.04	"
375-380	" " " " Aplite at 379	68	"	Tr	.06	"
380-385	" " " "	58	"	Tr	.05	"
385-390	" " " "	34	"	Tr	.06	"
390-395	390-391 fault zone, brecciated aplite. 391-395 gneissoid schist	60	"	.005	.05	Ex from 391
395-400	Aplite	15	"	Tr	.07	Ex
400-405	Altered fine grain granite	42	"	Tr	.08	"
405-410	405-409 aplite; 409-410 altered schist	16	"	Tr	.04	"
410-415	Chloritized and sericitized schist	30	"	.005	.05	"
415-420	Altered and bleached granite	38	"	.005	.04	"
420-425	Altered granite	14	"	.010	.06	"
425-430	425-427 gneissoid schist. 427-430 bleached and sericitized schist	68	"	.005	.06	"

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
430-435	430-432 altered schistose granite. 432-435 gneissoid schist	28	Nil	Tr	.05	Ex
435-440	Gneissoid schist	96	"	.005	.06	"
440-445	Mainly altered schist and aplite	18	"	.005	.07	"
445-450	Gneissoid schist	98	"	.005	.09	"
450-455	Gneissoid schist, brecciated aplite 454-455	36	"	Tr	.05	"
455-460	Brecciated aplite, altered	14	"	.005	.05	"
460-465	Brecciated aplite, sericitized in places	48	"	.005	.05	"
465-470	Gneissoid schist	80	"	.020	.08	"
470-475	Gneissoid schist, slightly bleached at 470-471	30	"	.005	.06	"
475-480	Slightly altered fine grained granite (30% alteration) to 479. 479-480 gneissoid schist	50	"	.010	.03	"
480-485	Gneissoid schist	20	"	.005	.05	"
485-490	Gneissoid schist (bleached slightly)	48	"	.005	.06	"
490-495	" " " "	52	"	.005	.05	"
495-500	Altered granite and gneissoid schist. Aplite at 500'	30	"	.005	.04	"

End of hole at 500 feet

Note: All assays are sludge assays. Nil values of WO3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/6/53 - finished 7/17/53

COORDINATES: 29,593 N
20,391 E

ELEVATION: 6,073

YELLOW PINE MINE
STIBNITE, IDAHO

DIAMOND DRILL HOLE NO. B-219

BEARING: S 85° E

INCLINATION: Minus 10°

Page 1

Footage	Mineralogy	% Recovery	% WO 3	Oz. Au	% Sb	Size Core
0 - 5	Brecciated & altered granite with streaks of fine-grained sulfides	6	Nil	0.015	0.04	NX
5 - 10	Brecciated & altered granite with streaks of fine-grained sulfides	40	"	0.005	.04	"
10 - 15	Brecciated granite, mineralized with minor stibnite and specks of pyrite	22	"	.010	.04	from 11' BX
15 - 20	Mineralized granite and aplite with fine-grained pyrite and minor stibnite	8	"	.035	.03	"
20 - 25	Fractured aplite with fine-grained pyrite and minor stibnite	8	"	.025	.06	"
25 - 30	25-26, aplite with streaks of stibnite and pyrite. 26-30, fault breccia with sericite and chlorite. Streaks of stibnite in places	66	"	.010	.05	"
30 - 35	Fault breccia with sericite and chlorite. Streaks of stibnite in places	48	"	.020	.05	"
35 - 40	35-36, fault breccia with sericite and chlorite. Streaks of stibnite in places 36-40, altered dacite dike	15	"	.005	.05	"
40 - 45	Altered dacite dike	82	"	.005	.05	"
45-50	Partly altered dacite dike	65	"	.015	.06	"
50 - 55	" " " "	100	"	Tr	.06	"
55 - 60	Slightly altered granite	90	"	Tr	.10	"
60 - 65	60-63' fresh granite; 63-65 slightly altered granite, specks of sulfides	70	"	Tr	.12	"
65-70	Fresh granite	52	"	.005	.06	"
70-75	Altered granite with minor stibnite and specks of pyrite	70	"	.005	.07	"
75 - 80	Altered granite with minor stibnite & specks of pyrite	40	"	.005	.06	"
80 - 85	80-81' altered granite. 81-85' Mica schist, chloritized. Breccia at 85	46	"	Tr	.04	"
85 - 90	Mica schist	56	"	Tr	.07	"
90 - 95	Mica schist, brecciated from 91 to 92 ft.	74	"	Tr	.04	"
95 -100	Mica schist, brecciated & chloritized. Quartz at 96.	50	"	Tr	.04	"

Diamond Drill Hole No. B-219 - page 3

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
210-215	Fault breccia, green & schistose to 213, white to 215	77	Nil	Tr	.05	AX
215-220	" " white colored	15	"	Tr	.02	"
220-225	" " " " . Specks of sulfides	10	"	Tr	.02	"
225-230	" " " "	38	"	Tr	.02	"
230-235	" " " " . Specks of sulfides	40	"	Tr	.03	"
235-240	" to 237, completely O'. Specks of sulfides.	12	"	Tr	.02	"
~~240-245~~	aplite	12	"	Tr	.04	"
245-250	no core recovery	0	"	Tr	.03	"
250-255	" " "	0	"	Tr	.04	"
255-260	" " "	0	"	Tr	.05	"
260-265	" " "	0	"	Tr	.05	EX from
265-270	Completely altered granite and aplite	10	"	Tr	.03	" 262
270-275	Granite & aplite, about 70% altered. Very minor sulfides	48	"	Tr	.04	"
275-280	" " " " " "	25	"	Tr	.02	"
280-285	" " " " " "	28	"	Tr	.02	"
285-290	" " " " " "	15	"	Tr	Tr	"
290-291	" " " " " "	15	"			

End of hole at 291 feet.

Note: All assays are sludge assays. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/21/53; finished 7/26/53.

Diamond Drill Hole No. S-219 - page 2

Footage	Mineralogy	% Recovery	% NO_3	Oz. Au	% Sb	Size Core
100-105	Mica schist, brecciated and chloritized	16	Nil	Tr	.06	BX
105-110	105-108 mica schist, brecciated and chloritized, 108-110 altered granite, streaks of sulfides in cracks	76	"	Tr	.06	"
		45	"	Tr	.03	"
110-115	Mica schist, brecciated	15	"	Tr	.07	"
115-120	115-116 mica schist, 116-120 brecciated mica schist					
120-125	Fault breccia, completely altered, mainly white colored, soft	94	"	Tr	.04	"
125-130	Fault breccia, completely altered, mainly white colored, soft. Schistose 128-130'	86	Nil	Tr	.04	"
130-135	Fault Breccia, completely altered, mainly white colored, soft	76	"	Tr	.06	"
135-140	Fault breccia, completely altered, mainly white colored, soft	85	"	Tr	.05	"
140-145	Fault breccia, completely altered, mainly white colored, soft	78	"	.005	.04	"
145-150	Fault breccia, completely altered, mainly white colored, soft	18	"	Tr	.04	"
150-155	Fault breccia, completely altered, mainly white colored, soft	40	"	Tr	.04	"
155-160	Fault breccia, completely altered, mainly white colored, soft. Minor sulfides at 160'.	50	"	Tr	.04	"
160-165	Fault breccia, completely altered, mainly white colored, soft	25	"	Tr	.04	"
165-170	Fault breccia, completely altered, mainly white colored, soft	65	"	Tr	.04	"
170-175	Altered granite	8	"	Tr	.03	"
175-180	" " 176-180' dacite dike	72	"	Tr	.07	"
180-185	Dacite dike	90	"	Tr	.06	AX from 182'
185-190	Brecciated dacite 185-186'. Fault breccia, greenish	65	"	Tr	.03	"
190-195	Fault breccia, completely altered, greenish color, somewhat schistose	50	"	.005	.08	"
195-200	Fault breccia, completely altered, greenish color, somewhat schistose	14	"	Tr	.04	"
200-205	Fault breccia, completely altered, greenish color, somewhat schistose	60	"	Tr	.05	"
205-210	Fault breccia, completely altered, greenish color, somewhat schistose	82	"	Tr	.04	"

YELLOW PINE MINE
STIBNITE, IDAHO

DIAMOND DRILL HOLE NO. B-220

COORDINATES: 30,182.6 N
19,516.5 E

ELEVATION: 6,366.3

BEARING: S 3° 59' E

INCLINATION: Minus 60°

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
0 - 20	Overburden, granitic soil and weathered granite boulders					NX
20 - 25	" " " " " " "		Nil	Tr	.01	"
25 - 30	" " " " " " "		"	Tr	.01	"
30 - 35	" " " " " " "		"	Tr	.01	"
35 - 40	Bedrock at 35'. Intensely weathered granite	29	"	Tr	.01	"
40 - 45	Intensely weathered granite	38	"	Tr	.01	"
45 - 50	" " "	28	"	Tr	.02	"
50 - 55	50-51, weathered granite as above. 51-55, fresh granite with limonite along fractures	75	"	Tr	.02	"
55 - 60	Fresh granite, limonite in fractures	94	"	Tr	.02	"
60 - 65	" " " " " , slight alteration from 64-65	68	"	Tr	.02	BX
65 - 70	Altered granite (40% alteration). Limonite along fractures. Some streaks of sulfides at 68'. Aplite 69-70'	62	"	Tr	.02	"
70 - 75	Altered granite and aplite (40% altered) with limonite and some streaks of sulfides in fractures	35	"	Tr	.02	"
75 - 80	Aplite, slightly brecciated and thoroughly stained with iron oxides. Limonite along fractures	36	"	Tr	.02	"
80 - 85	Aplite, iron stained, limonite along fractures. Streaks of sulfides along some fractures	45	"	Tr	.02	"
85 - 90	Aplite with streaks and specks of sulfides along fractures. Some limonite at 90.	79	"	Tr	.02	"
90 - 95	Aplite, streaks and specks of sulfides along fractures	52	"	Tr	.02	"
95 -100	Aplite. Streaks of sulfides along some fractures	58	"	Tr	.02	"
100-105	Aplite. Specks of sulfides along fracture at 101 only	52	"	Tr	.02	"
105-110	Aplite. Streaks and specks of sulfides and specks of pyrite at 107	74	"	Tr	.01	"
110-115	Aplite. Specks of sulfides at 111	58	"	Tr	.02	AX from
115-120	Aplite. Streaks of sulfides in fracture at 120	14	"	Tr	.01	" 113
120-125	Aplite and slightly altered granite	36	"	Tr	.02	"

Diamond Drill Hole No. B-220 - page 2

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
125-130	125-127½, altered granite. 127½-130, aplite. Streaks and specks of sulfides	62	Nil	Tr	.01	AX
130-135	Aplite, streaks of sulfides	15	"	Tr	.01	"
135-140	Somewhat altered granite	16	"	Tr	.01	"
140-145	Aplite	7	"	Tr	.01	"
145-150	Aplite, specks of sulfides	34	"	Tr	.02	"
150-155	Aplite	36	"	Tr	.02	"
155-160	Aplite, streaks and specks of sulfides at 160	54	"	Tr	.02	"
160-165	Aplite, " " " " " .	40	"	Tr	.02	"
165-170	Altered granite, streaks of sulfides	57	"	Tr	.02	"
170-175	Altered granite (60%), specks of sulfides	15	"	Tr	.02	"
175-180	175-178 altered granite with streaks of sulfides. 178-180 aplite	85	"	Tr	.04	"
180-185	Aplite, some altered granite	32	"	.005	.04	"
185-190	" " " "	58	"	Tr	.04	"
190-195	" " " " . Sulfides along fractures	45	"	Tr	.02	"
195-200	" " " "	54	"	Tr	.02	"
200-205	" " " "	58	"	Tr	.02	"
205-210	" , breccia and gouge 209-210	32	"	.010	.02	"
210-215	"	50	"	Tr	.04	"
215-220	215-218, aplite. 218-220 partially (25%) altered granite	82	"	Tr	.04	"
220-225	Partially (25%) altered granite	60	"	Tr	.04	"
225-230	Essentially fresh granite. Aplite at 226 & 230	56	"	Tr	.01	"
230-235	230-233, aplite. 233-235, fresh granite	45	"	Tr	.01	"
235-240	Mainly fresh granite	56	"	Tr	.01	"
240-245	240-243, aplite. 243-245, partially (20%) altered granite	58	"	Tr	.17	"
245-250	245-247, aplite. 247-250, altered (40%) granite	38	"	Tr	.17	"
250-255	Altered (60%) granite. Specks and streaks of sulfides	15	"	Tr	.17	"
255-260	" " " " " " " "	15	"	.005	.03	"
260-265	Fresh granite	78	"	Tr	.03	"
265-270	" " to 267, aplite to 270	67	"	Tr	.03	"
270-275	Aplite to 271, fresh granite to 273, slightly altered (25%), granite to 275	56	"	.005	.02	"
275-278	Fresh granite	78	"	.005	.02	"

End of hole at 278 feet

Note: All assays are sludge assays. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/31/53; finished 8/8/53

COORDINATES: 30,175.6 N

19,509.7 E

ELEVATION: 6,367.0

YELLOW PINE MINE
STIBNITE, IDAHO

DIAMOND DRILL HOLE NO. B-221

BEARING: S 63° 16' W

INCLINATION: Minus 60°

Page 1

Footage	Mineralogy	% Recovery	% SO_3	Oz. Au	% Sb	Size Core
0 - 5	Overburden	0				NX
5 - 10	"	0	Nil	Tr	.01	"
10 - 15	"	0	"			"
15 - 20	Bedrock at 15', no core recovery	0	"			"
20 - 25	Intensely weathered granite	38	"			"
25 - 30	" " "	92	"	Tr	.01	"
30 - 35	Somewhat altered granite (30% altered) weathered along fractures	92	"			"
35 - 40	Somewhat altered granite (30% altered) weathered along fractures	70	"			BX
40 - 45	40-41½ granite, stained with limonite along fractures. 41½-45 mainly aplite, limonite along fractures.	96	"	Tr	.02	"
45 - 50	Altered (30% alteration) granite and aplite, stained with limonite	83	"			"
50 - 55	Aplite, iron stained along fractures	70	"			"
55 - 60	" " " " "	100	"	Tr	.01	"
60 - 65	Altered (30%) granite, limonite along fractures	90	"			"
65 - 70	" " " " "	95	"			"
70 - 75	Somewhat altered aplite, minor granite	90	"	.005	.02	"
75 - 80	" " "	90	"			"
80 - 85	" " "	80	"			"
85 - 90	" " " , some streaks of sulfides	96	"	.005	.01	"
90 - 95	90-92 aplite, 92-95 altered (30%) granite, minor sulfides in fractures	90	"			"
95 -100	Altered(30%) aplite and granite	86	"			"
100-105	Altered (30%) granite	66	"	.005	.02	"
105-110	" " "	64	"			"

Diamond Drill Hole No. B-221 - page 2

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
110-115	Altered (30%) granite	92	Nil			BX
115-120	" " "	94	"	Tr	.03	"
120-125	" " "	80	"			"
125-130	" " "	80	"			"
130-135	" " "	50	"	.005	.01	"
135-140	" " "	82	"			"
140-145	" " " to 143. Fresh granite to 145.	97	"			AX
145-150	Fresh granite, some aplite	94	"	Tr	.01	"
150-155	" " " " .. Altered (30%) granite					"
	152-154	42	"			"
155-160	155-156 slightly altered granite; 156-160 aplite	96	"			"
160-165	Altered (30%) granite, some aplite	56	"	Tr	.02	"
165-170	Granite, some aplite. Granite varies from fresh to altered (30%)	95	"			"
170-175	Granite, some aplite. Granite varies from fresh to altered (30%)	95	"	Tr	.02	"
175-180	175-178 fresh granite; 178-180 aplite	70	"			"
180-185	Aplite	60	"			"
185-190	Granite, some aplite. Granite varies from fresh to altered (30%)	34	"	Tr	.02	"
190-195	Altered granite (30%)	70	"			"
195-200	Altered granite (30%). Some fresh granite & aplite	92	"			"
200-205	Mainly altered granite (30%), some fresh granite	86	"	Tr	.03	"
205-210	Essentially fresh granite, minor areas of alteration	60	"			"
210-215	Fresh granite	79	"			"
215-220	Somewhat altered (30%) granite and aplite	64	"	Tr	.02	"
220-225	" " " " " "	18	"			"
225-230	" " " "	36	"			"
230-235	" " " "	58	"	Tr	.02	"
235-240	" " " " . Smears of sulfides		"			
	along fractures	44	"			"

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
240-245	Aplite, some altered (30%) granite	84	Nil			AX
245-250	245-246½, aplite; 246½-250 fault breccia & gouge	95	"	Tr	.01	"
250-255	Altered granite (50% altered). Brecciated from 250-251½	90	"			"
255-260	255-257½ altered (30%) granite. 257½-260 aplite	40	"			"
260-265	Altered (30%) granite	80	"	Tr	.02	"
265-270	Altered (30%) granite and aplite	50	"			"
270-275	" " " " "	50	"			"
275-280	" " " " "	60	"			"
280-285	" " " " "	42	"	Tr	.01	"
285-290	" " "	02	"			"
290-295	" " "	46	"	Tr	Tr	"
295-300	" " "	40	"			"
300-305	" " "	52	"			"
305-310	" " " from 305-307. Aplite from 307-310. Sulfide streaks in some fractures	42	"	Tr	.02	BX
310-315	Altered (30%) granite	9	"			"
315-320	" " "	11	"			"
320-325	" " "	54	"	Tr	.02	"
325-330	" " "	15	"			"
330-335	Aplite	68	"	Tr	.03	"
335-340	Slightly altered (20% alt.) granite	38	"			"
340-345	Fresh granite	50	"			"
345-350	" "	50	"	Tr	.02	"
350-355	" "	52	"			"
355-358	" " and aplite	40	"	Tr	.03	"

End of hole at 358 feet.

Note: all assays are sludge assays. Nil values of WO_3 determined by lamping. All core and sludges lamped.

Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 8/9/53; finished 8/19/53

YELLOW PINE MINE
STIBNITE, IDAHO

COORDINATES: 25,937.0 N
20,019.3 E

DIAMOND DRILL HOLE NO. FC-1

BEARING: S 61° 42' E
INCLINATION: Plus 1°

ELEVATION: 6,525.7

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 5	Chloritized mica schist	47	No sludge sample			NX
5 - 10	" " "	47	" " "			"
10 - 15	" " "	45	" " "			BX from
15 - 20	" " "	50	Nil	.015	.10	" 12
20 - 25	" " "	37	"	.005	.12	"
25 - 30	" " "	24	"	.020	.05	"
30 - 35	30-32, as above. 32-34, brecciated & sericitized granitic rock, with antimony mineralization. 34-35' chloritized mica schist	28	"	.050	.08	"
35 - 40	35-37', chloritized mica schist. 37-40' brecciated, completely altered granite, well mineralized with sulfides	32	"	.015	.06	"
40 - 45	Aplite with antimony stringers, pyrite specks	36	"	.020	.09	"
45 - 50	Aplite. Some antimony streaks in cracks	88	"	.020	.16	"
50 - 55	50-51, aplite, with sulfide mineralization. 51-55, mica schist	45	"	.005	.08	"
55 - 60	55-56, mica schist. 56-60, aplite - brecciated at 60	96	"	.005	.05	"
60 - 65	60-64, aplite, mineralized with Sb at 64. 64-65 chloritized mica schist	60	"	.020	.06	"
65 - 70	Chloritized mica schist	88	"	.005	.17	"
70 - 75	70-73, chloritized mica schist. 73-75, breccia with black Sb mineralization	28	"	.005	.21	"
75 - 80	Completely altered granite, well mineralized. Some aplite	55	"	.010	.13	"
80 - 85	" " " " " " "	24	"	.010	.06	"
85 - 90	" " " " " " "	25	"	.010	.12	"
90 - 95	90-91, mica schist. 91-95 completely altered granite, well mineralized with sulfides	92	"	.015	.18	"
95 -100	Completely altered granite, well mineralized with sulfides	48	"	.025	.18	"
100-105	" " " " " " "	30	"	.025	.12	"
105-110	" " " " " " "	46	"	.025	.13	"

Diamond Drill Hole No. FC-1 - page 2

Footage	Mineralogy	% Recovery	% WO_3	Oz. Au	% Sb	Size Core
110-115	Well mineralized aplite and altered granite	41	Nil	.005	.06	AX
115-120	Mica schist	100	"	Tr	.08	"
120-125	120-123, mica schist. 123-124, aplite. 124-125, mica schist	82	"	.005	.04	"
125-130	Mica schist	100	"	Tr	.05	"
130-135	130-131, mica schist. 131-133½ aplite with specks of pyrite. 133½-135, mica schist	83	"	.005	.06	"
135-140	135-138, mica schist. 138-140 altered aplite	96	"	Tr	.06	"
140-145	140-142 very slightly altered granite. 142-144, aplite, 144-145 mica schist	64	"	Tr	.08	"
145-150	Mica schist. Aplite at 148, gouge at 150	50	"	.005	.08	"
150-155	150-151 slightly altered granite. 151-152 mica schist. 152-155 aplite and altered granite, strongly mineralized	72	"	.025	.29	"
155-160	Mineralized aplite, some altered granite	88	"	.010	.12	"
160-165	Slightly altered (10%) granite and aplite	86	"	Tr	.04	"
165-170	Mainly aplite, some altered granite, somewhat mineralized	40	"	.005	.03	"
170-175	Mainly aplite, some altered granite, somewhat mineralized	66	"	.005	.06	"
175-180	Brecciated aplite, slightly mineralized. Some fresh granite	34	"	Tr	.04	"
180-185	180-182, mica schist. 182-184 aplite. 184-185 mica schist	35	"	.005	.04	"
185-190	Mica schist	30	"	Tr	.11	"
190-195	Aplite	20	"	.005	.06	"
195-200	195-196½, essentially fresh granite; 196½-198½ mica schist; 198½-200, aplite with some fresh granite	100+	"	.005	.06	"
200-205	Mainly fresh granite, some areas of alteration. Abundant pyrite specks at 205	84	"	.010	.07	"
205-210	205-208, sericitized breccia. 208-210, mica schist	36	"	.005	.07	"
210-215	210-213, mica schist. 213-215 altered granite with abundant pyrite specks	32	"	Tr	.05	"
215-220	215-217, altered mica schist. 217-220 mica schist	60	"	.005	.10	"
220-225	Mica schist	55	"	.030	.12	"
225-230	225-227, mica schist. 227-230 aplite	52	"	.010	.08	"
230-235	230-232, mica schist. 232-234½, aplite. 234½-235 mica schist	75	"	.010	.08	"
235-240	235-236½, mica schist. 236½-239 aplite. 239-240 mica schist	100	"	.010	.05	"

Diamond Drill Hole No. FC-1 - page 3

Footage	Mineralogy	% Recovery	% HCO_3	Oz. Au	% Sb	Size Core
240-245	Mica schist	38	Nil	.035	.07	AX
245-250	" "	100	"	.015	.05	"
250-255	" "	84	"	.010	.06	"
255-260	" "	65	"	.005	.05	"
260-265	Fresh Granite	60	"	.005	.09	"
265-270	265-267½, fresh granite; 267½-268½, aplite; 268½-270, granite, some alteration	92	"	.010	.09	"
270-275	Fresh granite; gneissoid	23	"	.005	.10	"
275-280	" " "	100	"	.005	.05	"
280-285	" " "	80	"	.005	.14	"
285-290	" " "	65	"	.005	.11	"
290-295	" " "	70	"	.020	.16	"
295-300	295-296, fresh gneissoid granite; 296-299 altered and mineralized granite; 299-300, fresh granite	92	"	.020	.17	"
300-305	Fresh granite; gneissoid	78	"	.005	.11	"
305-310	Altered and brecciated granite and aplite; mineralized with Sb and pyrite	70	"	.020	.06	"
310-315	Altered, mineralized granite, some aplite	100+	"	.030	.12	"
315-320	Completely altered granite and aplite, well mineralized with sulfides	74	"	.040	.11	"
320-325	Completely altered granite and aplite, well mineralized with sulfides	100	"	.035	.08	"
325-330	Completely altered granite and aplite, well mineralized with sulfides	100	"	.040	.10	"
330-335	Completely altered granite and aplite, well mineralized with sulfides	78	"	.025	.06	"
335-340	Completely altered granite and aplite, well mineralized with sulfides	94	"	.030	.17	"
340-345	Completely altered granite and aplite, well mineralized with sulfides	90	"	.030	.14	"
345-350	Altered granite, some sulfide mineralization. Black gouge at 346	50	"	.010 ~~.030~~	.04 ~~.14~~	"
350-355	Altered granite, some fresh areas	60	"	.005	.04	"
355-360	355-357, fresh granite and aplite with pyrite specks; 357-358, gneissoid granite; 358-360, fresh granite	84	"	.005	.05	"
360-365	360-364, fresh granite; 364-365, aplite with streaks of Sb and specks of pyrite	68	"	.005	.06	"

Diamond Drill Hole no. FC-1 - page 4

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
365-370	365-367 aplite with streaks of Sb and pyrite specks. 367-380, fresh granite (patch of aplite at 380)	92	Nil	.015	.08	AX
370-375	Aplite and completely altered granite. Some brecciation and gouge	68	"	.005	.08	"
375-380	375-378 somewhat altered granite. 378-380, aplite	18	"	.010	.05	"
380-385	380-381½, aplite. 381½-385 slightly altered granite	52	"	.005	.06	"
385-390	Mainly fresh granite. Patch of aplite at 386.	20	"	.005	.03	"
390-395	Fresh granite, rich in ferromagnesian minerals	95	"	.005	.06	"
395-400	" " " " " "	100	"	.005	.08	"
400-405	" " " " " "	100	"	.010	.04	"
405-410	" " " " " " Aplite 406-407	76	"	Tr	.04	"
410-415	Fresh granite, rich in ferromagnesian minerals, Aplite 412-414	100	"	.015	.05	"
415-420	Fresh granite, rich in ferromagnesian minerals to 416. Aplite and minor granite 416-420	75	"	.005	.05	"
420-425	Fresh granite and aplite	95	"	.010	.06	"
425-430	Fresh granite	95	"	.010	.04	"
430-435	Granite, 40% altered to 431, fresh gneissoid granite to 435.	98	"	.010	.03	"
435-440	Predominantly fresh gneissoid granite, some patches of alteration	100	"	.005	.05	
440-445	Altered gneissoid granite with streaks of Sb mineralization and specks of pyrite	90	"	.010	.08	"
445-450	Altered (slightly) gneissoid granite with patches of aplite	98	"	.010	.09	"
450-455	Fresh gneissoid granite	80	"	.010	.11	"
455-460	Fresh gneissoid granite, some patches of alteration	98	"	.005	.05	"
460-465	460-463, fresh gneissoid granite. 463-465' aplite	70	"	.010	.05	"
465-470	465-466' aplite. 466-470 gneissoid granite, altered 468-469	100	"	.005	.24	"
470-475	Fresh gneissoid granite	70	"	.010	.08	"
475-476	" " "					
	End of hole at 476 feet					

Note: all assays are sludge assays. Nil values of WO3 determined by lamping.
All core and sludges lamped.
Hole drilled by Nichols and Thompson Core Drilling Co.
Date started: 7/12/53; finished 7/29/53

COORDINATES: 25,968.5 N
19,683.6 E

ELEVATION: 6,524.4

YELLOW PINE MINE
Stibnite, Idaho

DIAMOND DRILL HOLE NO. PC - 2

BEARING: N 52° 34' W

INCLINATION: Minus 18°

Footage	Mineralogy	% Recovery	% WO3	Oz. Au	% Sb	Size Core
0 - 5	Aplite	100				NX
5 - 10	5-7, aplite; 7-10 fresh granite	100	Nil	Tr	0.02	BX from 4
10 - 15	Fresh granite	96	"	"	0.01	BX
15 - 20	" "	100	"	.005	0.01	"
20 - 25	20-23 aplite; 23-25 fresh granite	100	Tr	Tr	0.01	"
25 - 30	25-27 fresh granite; 27-30 aplite, iron oxide stained	74	Tr	Tr	Tr	"
30 - 35	30-32 aplite; stained with iron oxide. 32-33 fresh granite; 33-35 aplite, iron stained	48	Nil	Tr	0.02	"
35 - 40	Iron stained aplite	60	"	Tr	0.02	"
40 - 45	40-42, aplite, iron stained. 42-45, fresh granite	60	"	Tr	0.02	"
45-50	45-47, fresh granite; 47-50, aplite	96	"	Tr	0.01	"
50 - 55	Aplite, limonite in cracks	63	"	Tr	0.02	"
55 - 60	" " " "	70	"	"	0.02	"
60 - 65	Mainly aplite, fresh granite at 63 ft.	94	"	"	0.02	"
65 - 70	" " , stained with iron oxides	94	"	"	0.02	"
70 - 75	Fresh granite, minor aplite	72	"	"	0.04	"
75 - 80	75-77, very slightly altered granite; 77-78½, aplite; 78½-80, fresh granite	86	"	"	0.04	"
80 - 85	Fresh granite	86	"	"	0.04	"
85 - 90	85-88, iron stained aplite; 88-90, fresh granite	70	"	"	0.01	"
90 - 95	Aplite, brecciated at 91	70	"	"	0.03	"
95 -100	95-96½-aplite; 96½-97½, brecciated aplite, white color; 97½-100, aplite	100	"	"	0.02	"
100-105	Brecciated aplite	72	"	"	0.03	"
105-110	105-107, aplite; 107-110, very slightly altered granite	60	"	"	0.03	"
110-115	Very slightly altered and fractured granite	18	"	"	0.03	"
115-120	115-116, aplite; 116-119, very slightly altered granite; 119-120, aplite	80	"	"	0.05	"
120-125	120-122 breccia and gouge; 122-124½, lamprophyre dike	66	"	"	0.03	"
125-130	Altered granite and aplite (50% altered)	70	"	"	0.01	"
130-135	Somewhat altered (25%) aplite and granite	35	"	"	0.01	"
135-140	" " " " " "	40	"	"	0.01	"
140-145	Aplite	28	"	"	Tr	"

Hole No. FC-2

Footage	Mineralogy	% Recovery	% WO 3	Oz. Au	% Sb	Size Core
145-150	Aplite	18	Nil	Tr	Tr	AX
150-155	Fault breccia and gouge, light grey color	5	"	"	"	"
155-160	" " " " " " "	15	"	"	0.03	"
160-165	" " " " " " " to 164'; aplite, 164-165'	10	"	"	0.03	"
165-170	Aplite and slightly altered granite	12	"	"	0.03	"
170-175	Fresh granite	23	"	"	0.03	"
175-180	Granite and aplite, some alteration and brecciation	10	"	"	0.03	"
180-185	" " " " " " "	8	"	"	0.03	"
185-190	Slightly altered granite	14	"	"	0.03	"
190-195	" " "	7	"	"	0.03	"
195-200	" " "	2	"	"	0.02	"
200-205	No core recovery	0	"	Tr	0.02	"
205-210	Lamprophyre dike, gouge at 205-207	68	"	"	0.02	"
210-215	" "	60	"	"	0.02	"
215-220	215-217 lamprophyre dike; 217-220, fresh granite	28	"	"	0.02	"
220-225	Fresh granite	46	"	"	0.02	"
225-230	" " and some aplite	90	"	"	0.02	"
230-235	" "	54	"			"
235-240	" "	62	"	"	0.05	"
240-245	" "	100	"			"
245-250	" "	58	"	—	—	"
250-255	Somewhat altered granite (25% alt.). Silicification and fine grained sulfides at 252'	52	"	"	0.04	"
255-260	Somewhat altered granite (25% alt.)	100	"			"
260-265	Fresh fine-grained granite and aplite	60	"	—	—	"
265-270	Fresh granite, some aplite	74	"	"	0.04	"
270-275	270-273, fresh granite; 273-275, altered (30%) granite	100	"			"
275-280	Altered granite (30% alt.)	30	"	—	—	"
280-285	Fresh granite, minor patches of alteration	12	"	"	0.02	"
285-290	" " " " " "	86	"			"
290-295	" " " " " "	68	"	"	Tr	"
295-300	Aplite, minor granite. Some alteration	78	"	"	0.04	"
305-310	Fresh granite	10	"			EX
300-305	Aplite, minor granite. Some alteration. Fresh granite 304-305	10	"	"	0.01	"
310-315	Fresh granite	20	"	—	—	"

Footage	Mineralogy	% Recovery	% WO 3	Oz. Au	% Sb	Size Core
315-320	Fresh Granite	20	Nil			EX
320-325	Aplite and fine-grained fresh granite	48	"	Tr	0.02	"
325-330	Fresh granite. Gouge 328-330	10	"	—	—	"
330-335	Fresh granite, some aplite	17	"			"
335-340	" " " "	25	"	"	0.05	"
340-345	" " " " Altered granite with fine-grained sulfides at 345'	30	"	"		"
345-350	Altered granite (75% alt.)	6	"	—	—	"
350-355	Aplite and altered granite to 354', fresh granite 354-355'	30	"	"	0.04	"
355-360	Fresh granite	64	"			"
360-365	" "	58	"	—	—	"
365-370	Fine grain granite - fresh	33	"	"	0.02	"
370-375	" " "	60	"	—	—	"
375-380	" " "	44	"	"	0.04	"
380-385	Fresh granite	73	"			"
385-390	" "	90	"	—	—	"
390-395	" " , fine grained	78	"	"	0.04	"
395-400	Fine grained granite and aplite	15	"			"
400-405	Fresh granite	24	"	"	0.01	"
405-410	" "	88	"			"
410-415	" "	76	"	—	—	"
415-420	" "	70	"	"	0.04	"
420-425	" "	50	"			"
425-430	" "	60	"	—	—	"
430-435	" "	56	"	.005	0.03	"
435-440	" "	40	"			"
440-445	" "	32	"	—	—	"
445-450	" "	52	"	Tr	0.05	"
450-455	" "	46	"			"
455-460	" "	25	"	—	—	"
460-465	" "	30	"			"
465-470	" "	28	"	Tr	0.03	"
470-475	" "	9	"			"

End of hole at 475 feet

Note: All assays are sludge assays. Trace and Nil values of WO3 determined by lamping. All core and sludges lamped.

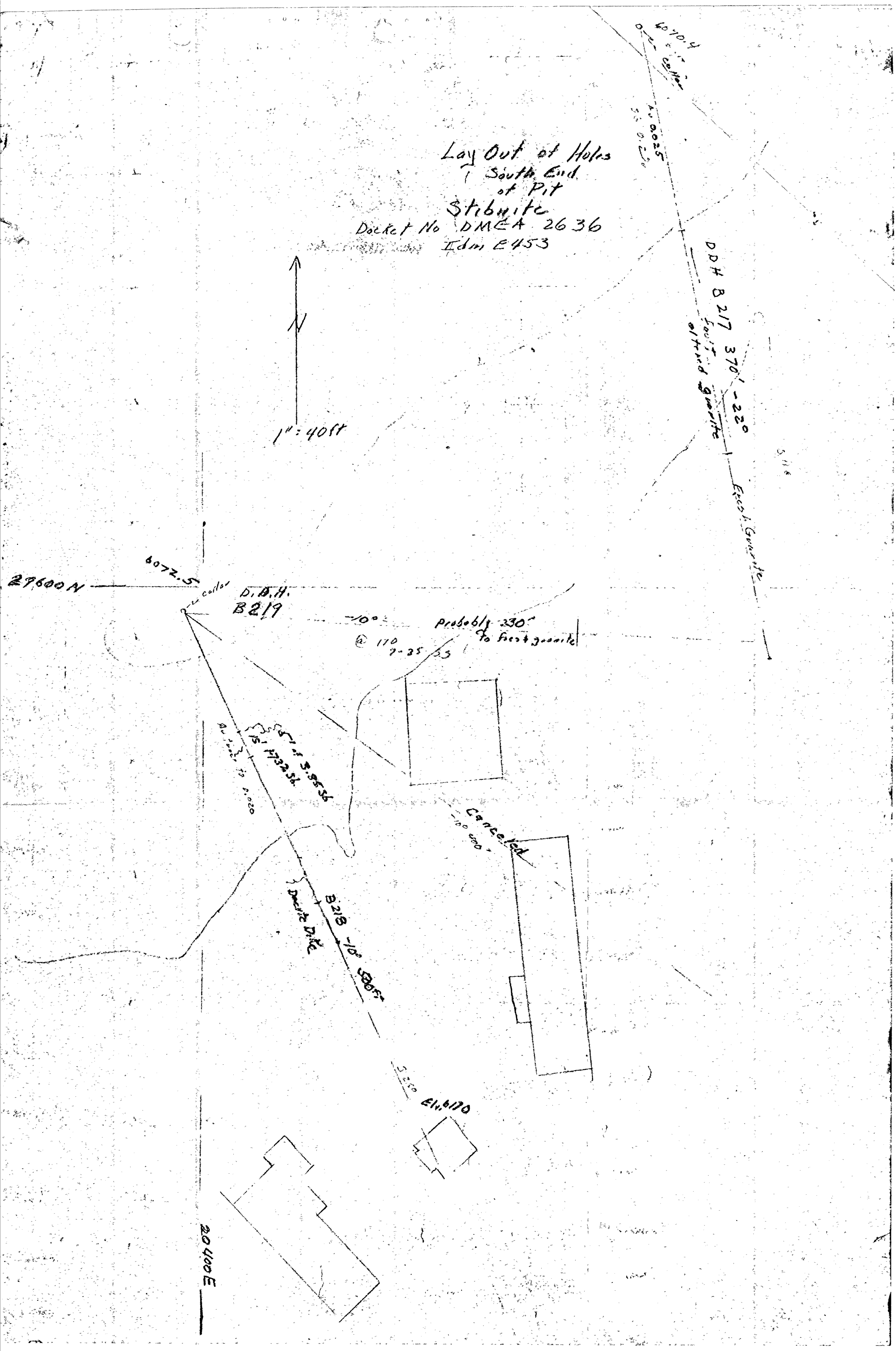
Hole drilled by Nichols & Thompson Core Drilling Co.
Date started: 7/30/53 - Finished 8/20/53.

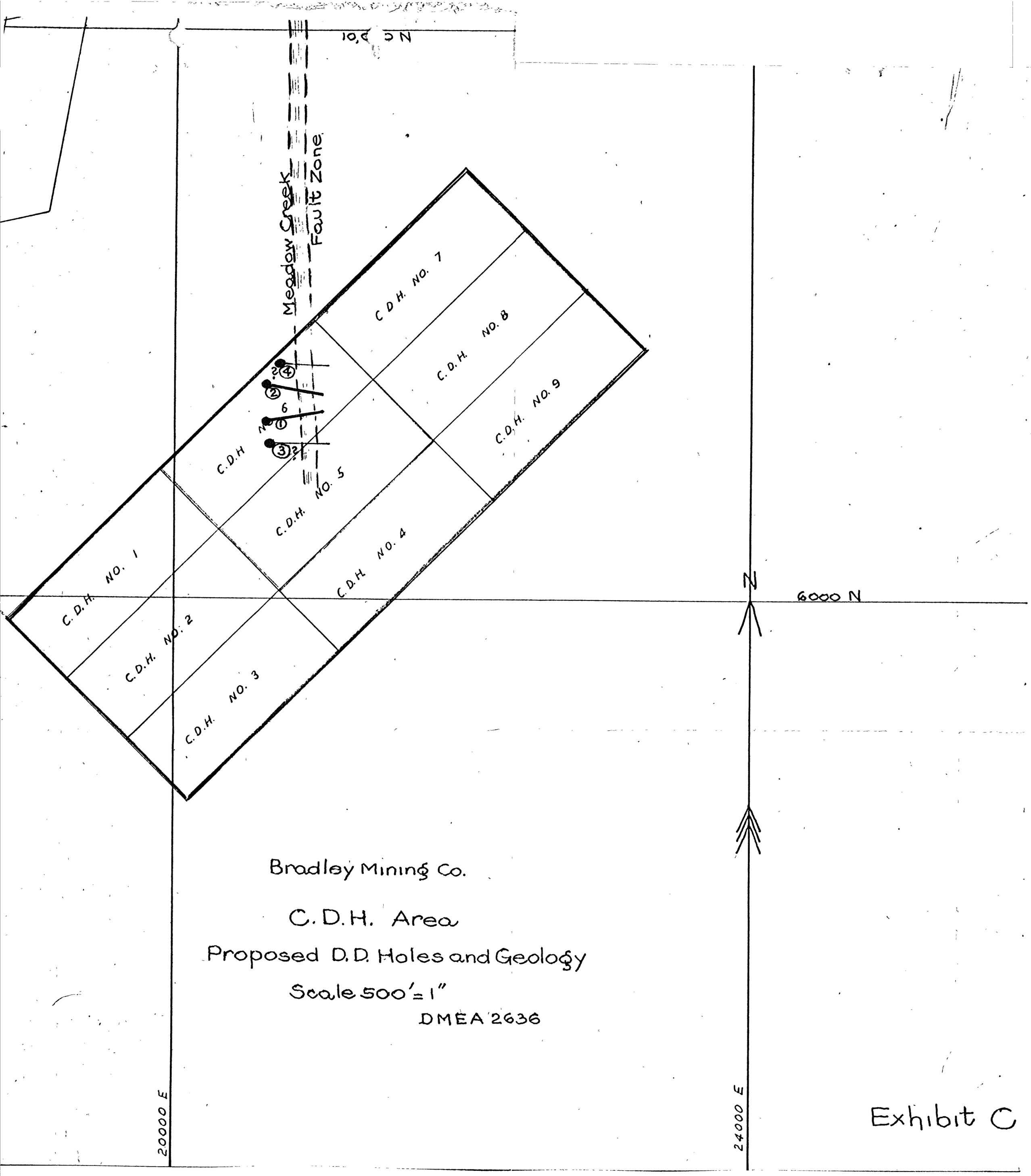
Mr. E. W. Ellis - DMEA

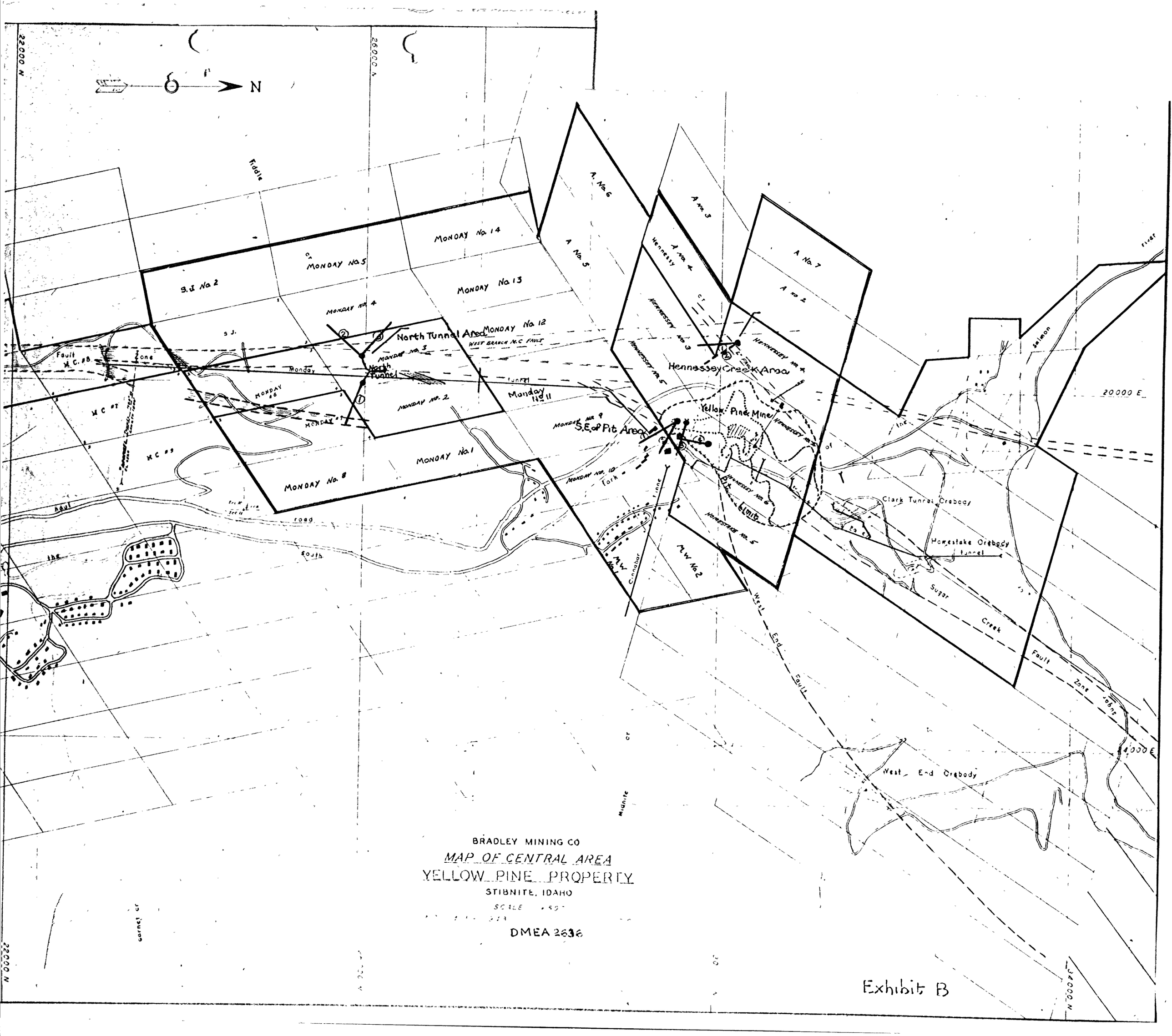
Room - 4640

January 12 - 1954
Drill logs

Almeda 2636
Adm. 6 -453


Lay Out of Holes
South End
of Pit
Stibnite
Docket No DMEA 2636
Idm E453
N
1" = 40ft
6070.4
collar
DDH B217 370' -220
Fault
altered Granite
Fresh Granite
6072.5
29,600 N
collar
D.D.H.
B219
-100
Probably 330'
to fresh granite
@ 170
Canceled
-100 000'
B218 -10 500ft
Deceite Dike
Elv. 6170
20 400 E


10,000 N
Meadow Creek Fault Zone
C.D.H. NO. 7
C.D.H. NO. 8
C.D.H. NO. 9
C.D.H. NO. 6
C.D.H. NO. 5
C.D.H. NO. 4
C.D.H. NO. 3
C.D.H. NO. 2
C.D.H. NO. 1
6000 N
20000 E
24000 E
Bradley Mining Co.
C.D.H. Area
Proposed D.D. Holes and Geology
Scale 500'=1"
DMEA 2636
Exhibit C



BRADLEY MINING CO

MAP OF CENTRAL AREA

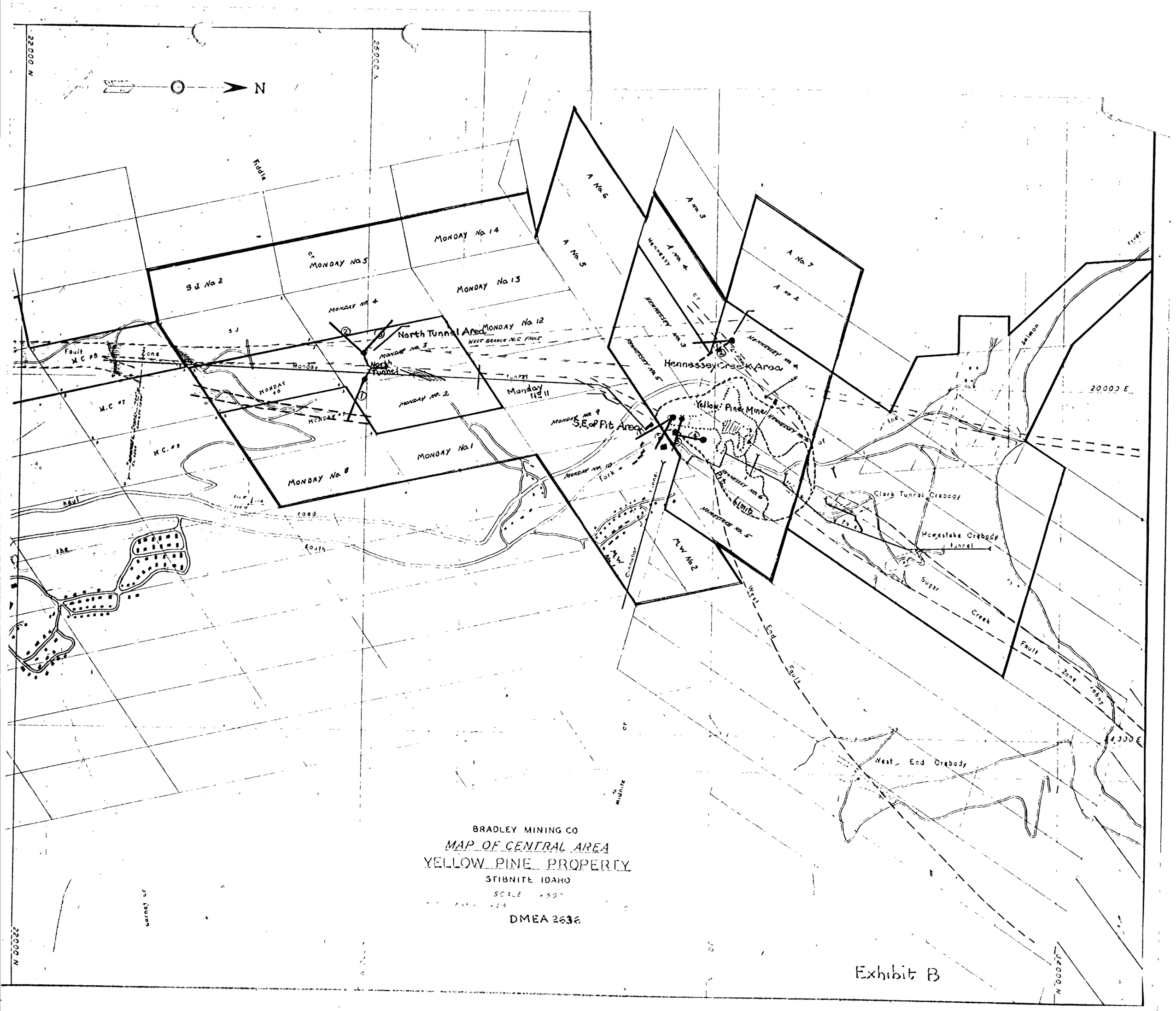
YELLOW PINE PROPERTY

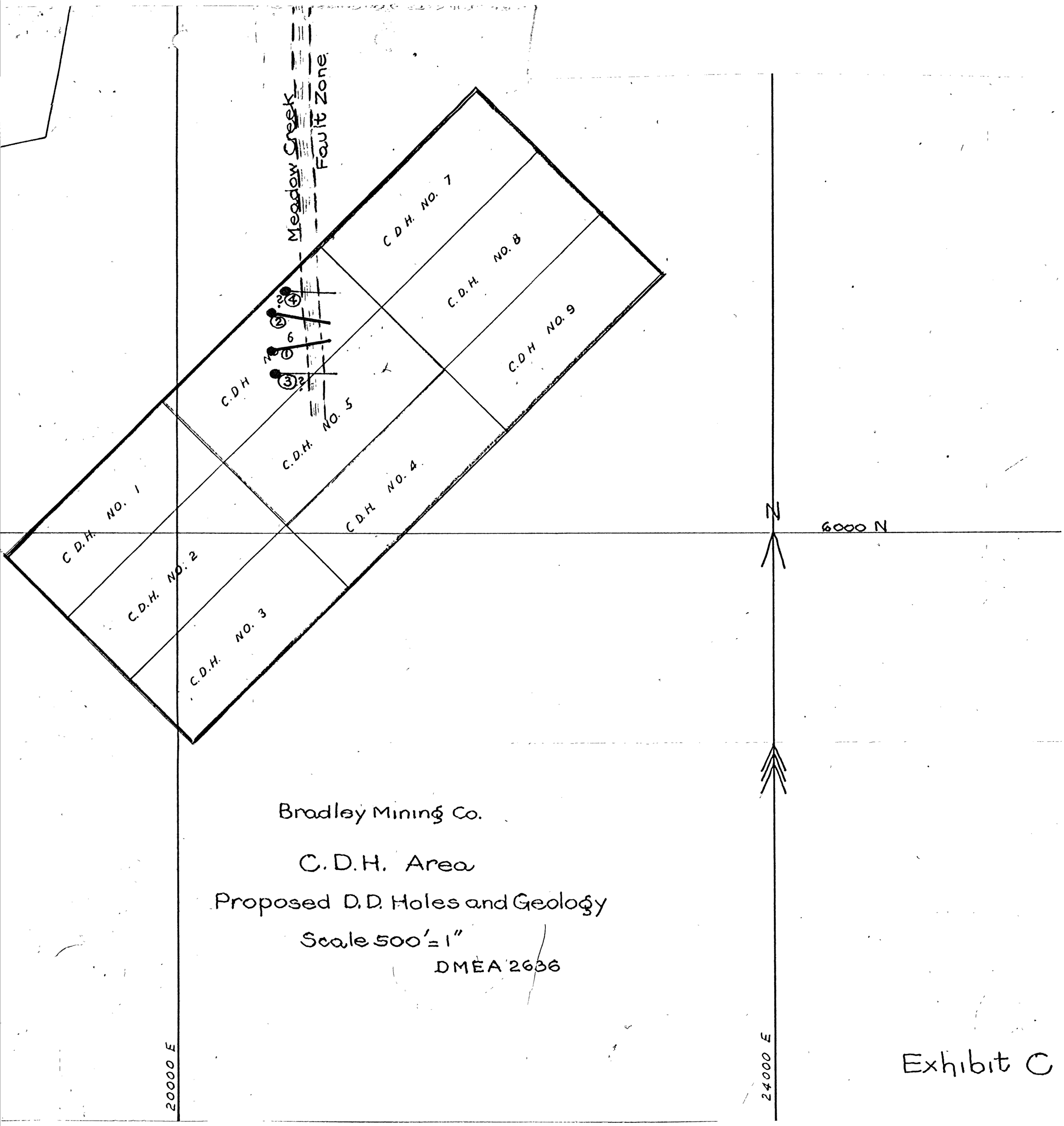
STIBNITE, IDAHO

SCALE

DMEA 2636

Exhibit B


N
22000 N
26000 N
Fiddle
Monday No. 14
Monday No. 5
S J No 2
Monday No. 13
Monday No. 4
S J
North Tunnel Area
Monday No. 12
West Branch N.C. Fault
Monday No. 3
North Tunnel
Fault
M.C. #8
Zone
Monday
Monday #6
Monday #7
Monday No. 2
Monday No. 11
M.C. #7
M.C. #9
Monday No. 9
S.E. of Pit Area
Monday No. 1
Monday No. 8
Monday No. 10
Tork
Tunnel
road
South
Hauf
the
A No. 6
A No. 5
A No. 3
A No. 4
Hennessy
Hennessey No. 3
Hennessey No. 5
Hennessey Creek Area
Hennessey No. 4
A No. 7
A No. 2
Yellow Pine Mine
Hennessey No. 2
Pit
Hennessey No. 6
Limit
Homestake No. 5
Clark Tunnel Orebody
Homestake Orebody
tunnel
Sugar
Creek
Fault
Zone
Salmon
River
20000 E
AW No. 1
Cinnabar
AW No 2
West
End
Fault
West End Orebody
Stibnite
Garnet Cr
22000 N
24000 N
BRADLEY MINING CO
MAP OF CENTRAL AREA
YELLOW PINE PROPERTY
STIBNITE IDAHO
DMEA 2636
Exhibit B



Bradley Mining Co.

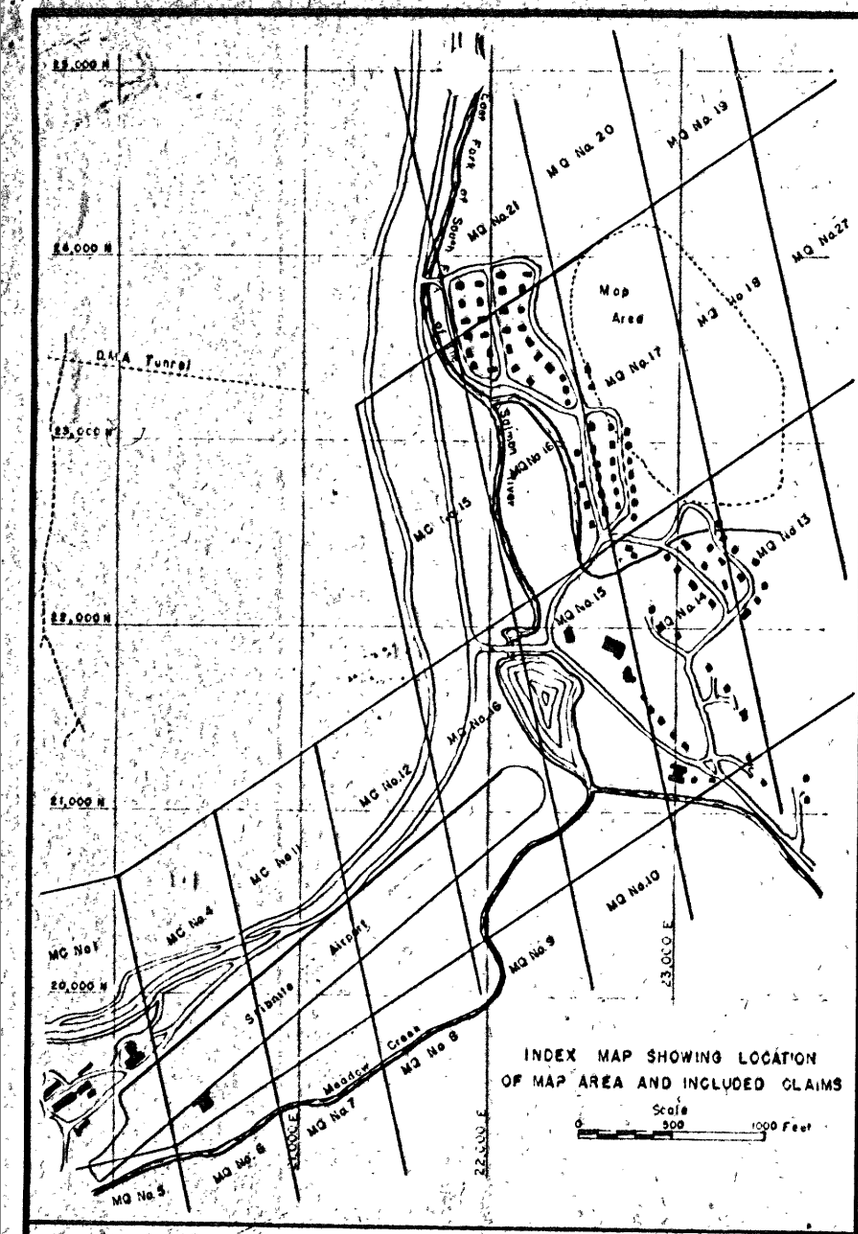
C.D.H. Area

Proposed D.D. Holes and Geology

Scale 500' = 1"

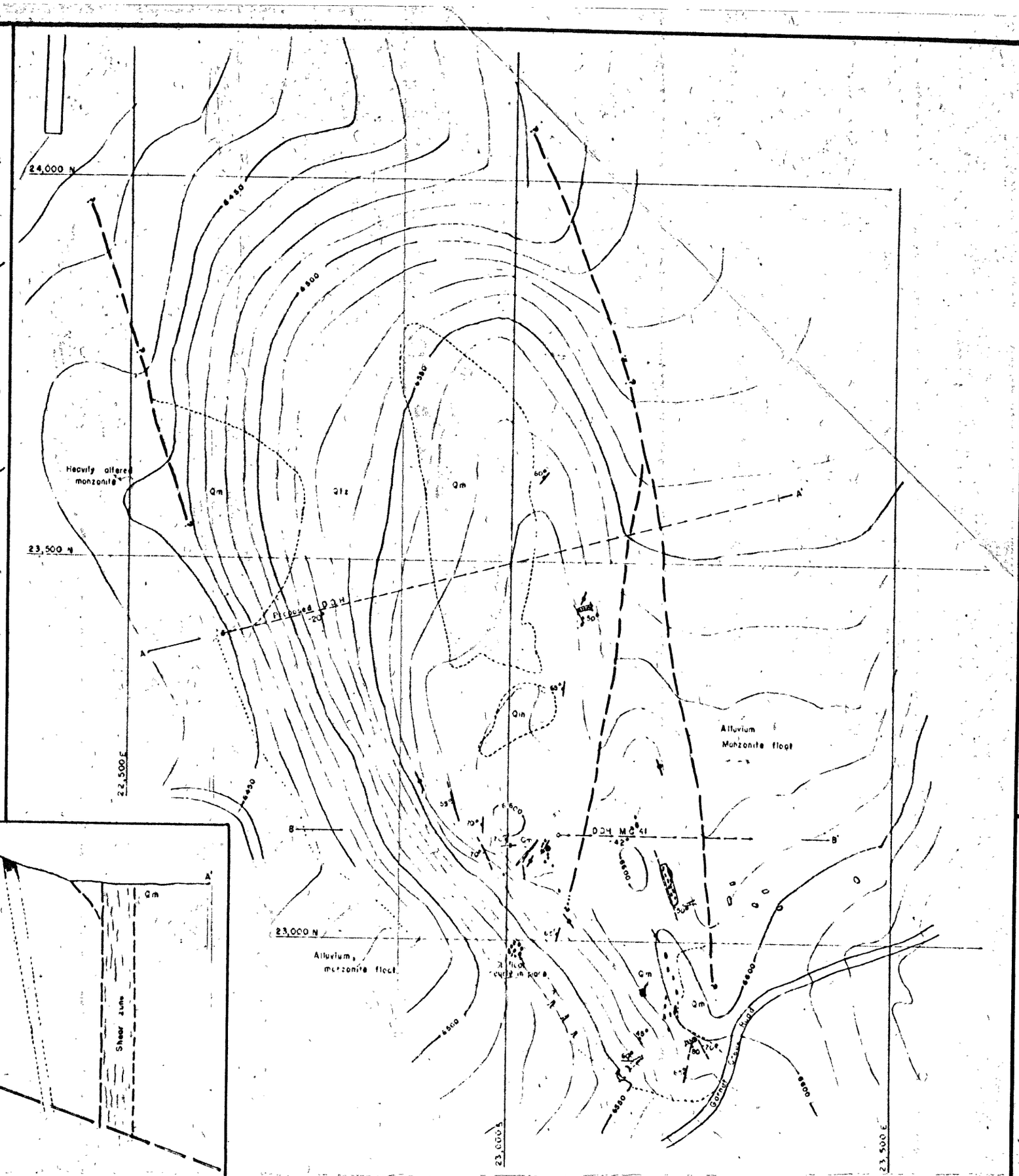
DMEA 2636

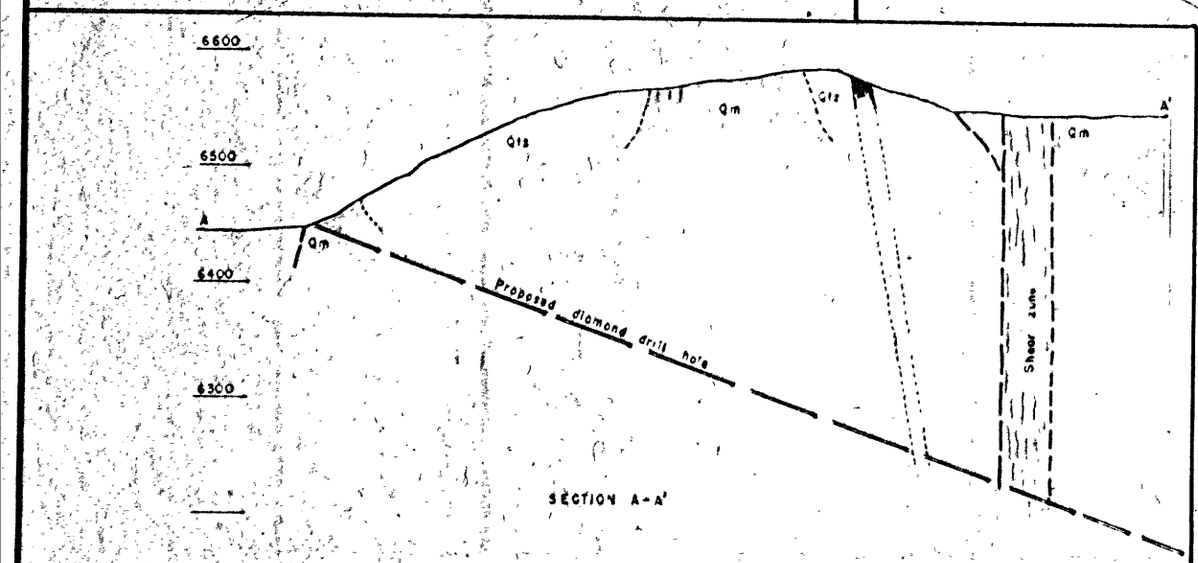
Exhibit C



INDEX MAP SHOWING LOCATION OF MAP AREA AND INCLUDED CLAIMS

Scale 0 500 1000 Feet





SECTION A-A'

SECTION B-B'

Exhibit E

GEOLOGIC MAP OF SCOUT RIDGE AREA
BRADLEY MINING COMPANY
STIBNITE, IDAHO

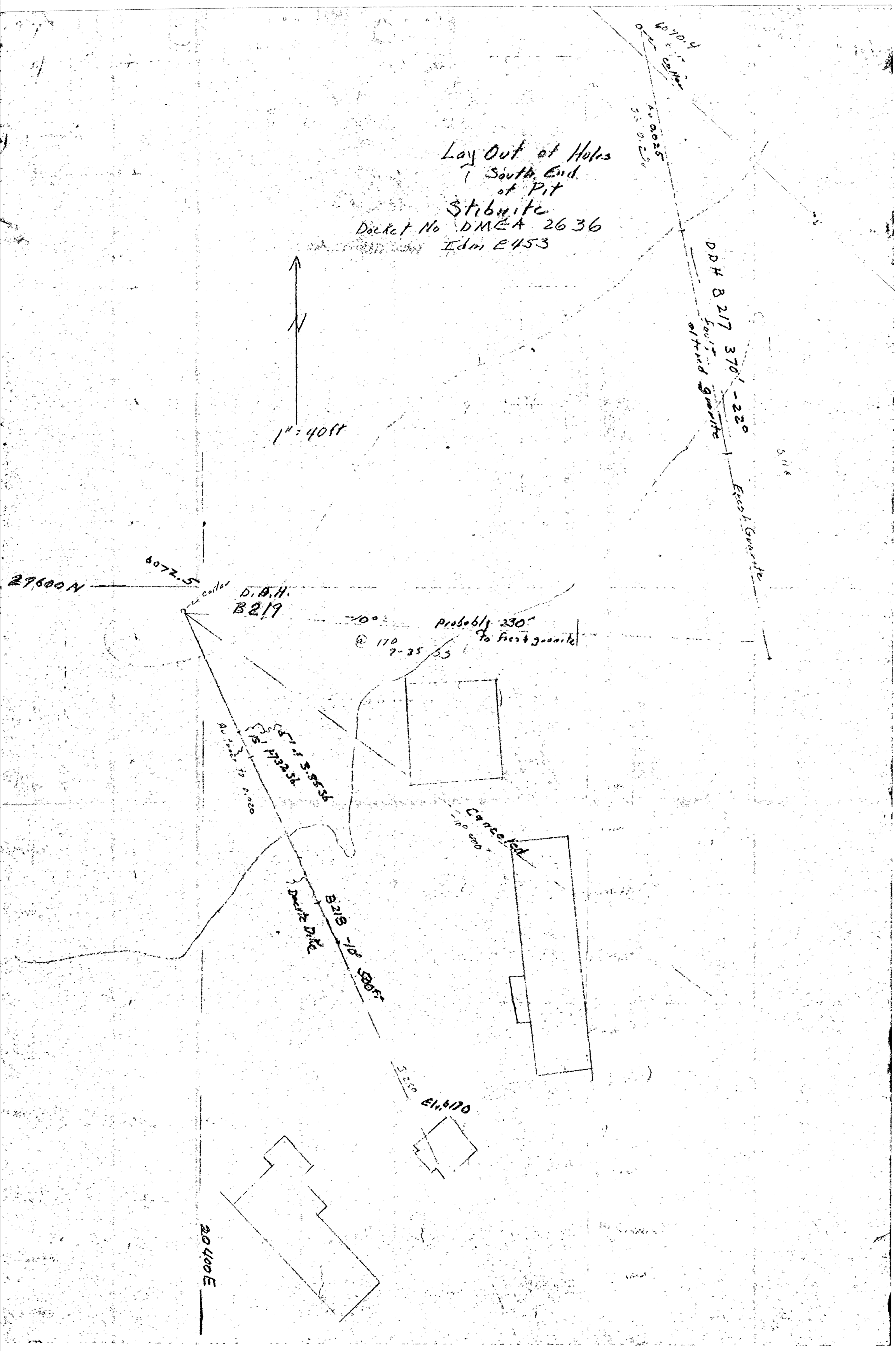
SCALE

0 50 100 200 300 400 500 600 Feet

CONTOUR INTERVAL IS 10 FEET

- Qm — Quartz Monzonite
- Qtz — Quartzite
- Stibnite
- Fault
- Fracture
- Approximate contact

Geology by Peter Joralemon
July 30, 1954


Lay Out of Holes
South End
of Pit
Stibnite
Docket No DMEA 2636
Idm E453
N
1" = 40ft
6070.4
collar
DDH B217 370' -220
Fault
altered Granite
Fresh Granite
6072.5
29,600 N
collar
D.D.H.
B219
-100
Probably 330'
to fresh granite
@ 170
Canceled
-100 000'
B218 -10 500ft
Deceite Dike
Elv. 6170
20 400 E

THE TOPOGRAPHIC MAPS OF THE UNITED STATES

The United States Geological Survey is making a series of standard topographic maps to cover the United States. This work has been in progress since 1882, and the published maps cover more than 47 percent of the country, exclusive of outlying possessions.

The maps are published on sheets that measure about 16½ by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, the areas that they represent are of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, miles, and kilometers. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale $\frac{1}{62,500}$ means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 62,500 of the same units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys and the resulting maps have for many years been of three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{31,680}$ (1 inch = one-half mile) or $\frac{1}{24,000}$ (1 inch = 2,000 feet), with a contour interval of 1 to 100 feet, according to the relief of the particular area mapped.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile), with a contour interval of 10 to 100 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, and the high mountain area of the northwest, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{125,000}$ (1 inch = nearly 2 miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles), with a contour interval of 20 to 250 feet.

The aerial camera is now being used in mapping. From the information recorded on the photographs, planimetric maps, which show only drainage and culture, have been made for some areas in the United States. By the use of stereoscopic plotting apparatus, aerial photographs are utilized also in the making of the regular topographic maps, which show relief as well as drainage and culture.

A topographic survey of Alaska has been in progress since 1898, and nearly 44 percent of its area has now been mapped. About 15 percent of the Territory has been covered by maps on a scale of $\frac{1}{500,000}$ (1 inch = nearly 8 miles). For most of the remainder of the area surveyed the maps published are on a scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). For some areas of particular economic importance, covering about 4,300 square miles, the maps published are on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile) or larger. In addition to the area covered by topographic maps, about 11,300 square miles of southeastern Alaska has been covered by planimetric maps on scales of $\frac{1}{125,000}$ and $\frac{1}{250,000}$.

The Hawaiian Islands have been surveyed, and the resulting maps are published on a scale of $\frac{1}{62,500}$.

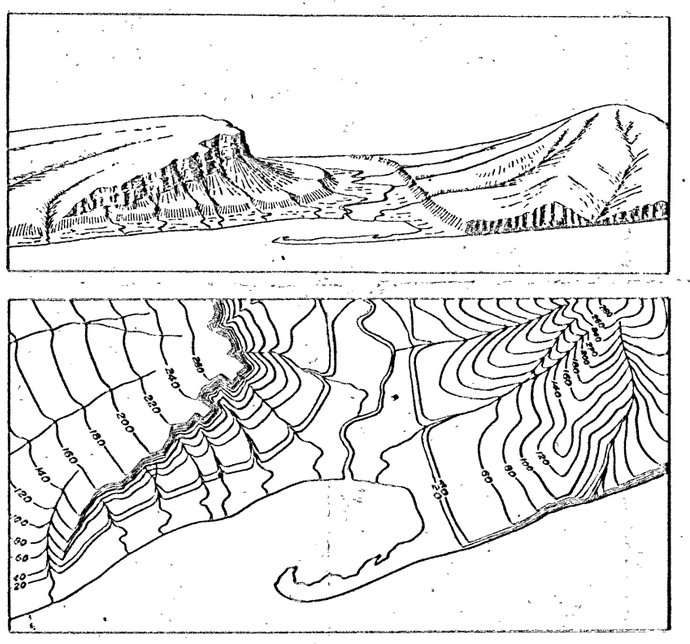
A survey of Puerto Rico is now in progress. The scale of the published maps is $\frac{1}{30,000}$.

The features shown on topographic maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and boundaries. The symbols used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams by double lines. The larger streams, lakes, and the sea are accentuated by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on a few maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The datum or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet above mean sea level. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope, lines that are close together indicate a steep slope, and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.



The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined tableland that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. In order that the contours may be read more easily certain contour lines, every fourth or fifth, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road intersections, summits, surfaces of lakes, and benchmarks—are also given on the map in figures, which show altitudes to the nearest foot only. More precise figures for the altitudes of benchmarks are given in the Geological Survey's bulletins on spirit leveling. The geodetic coordinates of triangulation and transit-traverse stations are also published in bulletins.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Public roads suitable for motor travel the greater part of the year are shown by solid double lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

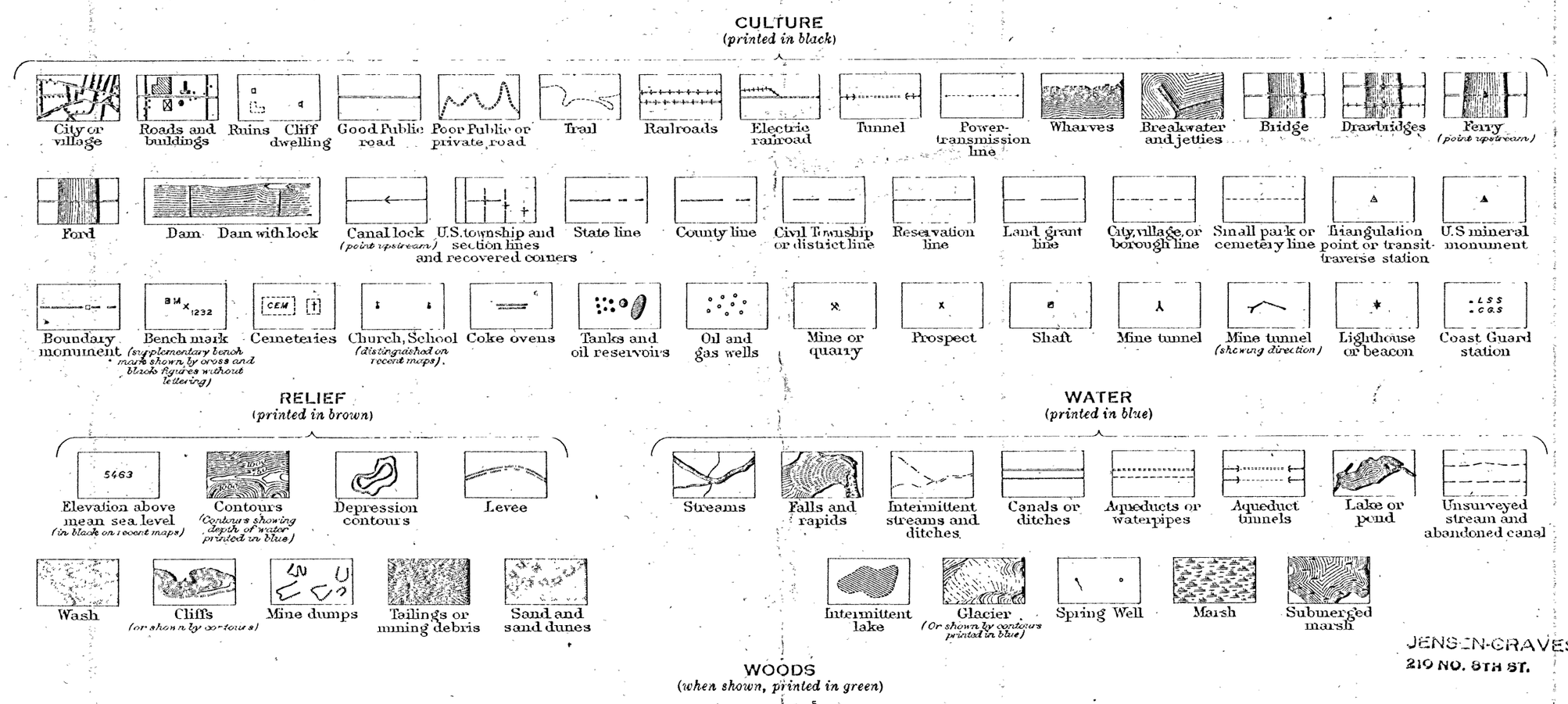
Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

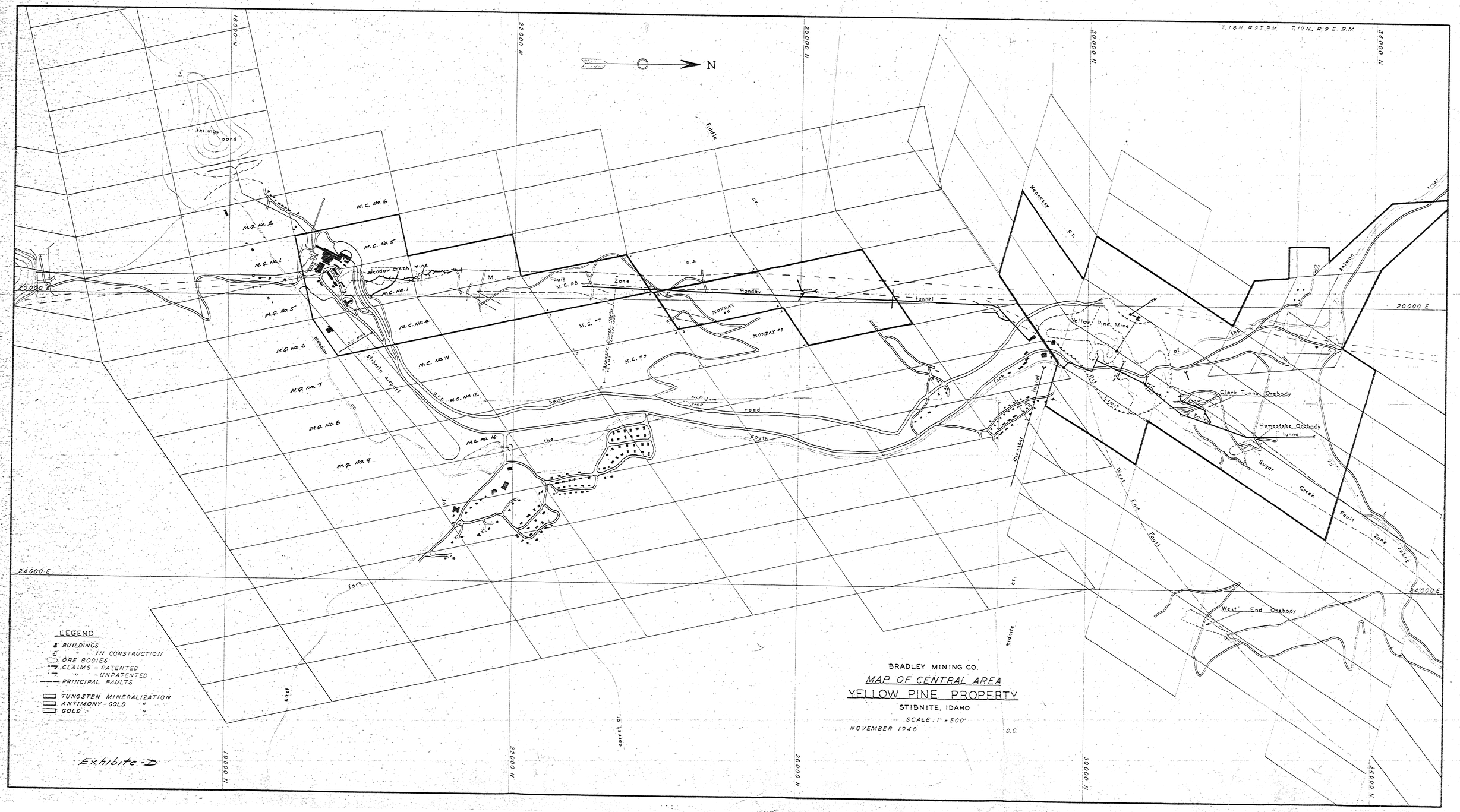
THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

STANDARD SYMBOLS



JENSEN-GRAVES COMPANY
210 NO. 8TH ST. BOISE, IDAHO


N
T.18 N. R.9 E. B.M.
T.19 N. R.9 E. B.M.
18000 N
22000 N
26000 N
30000 N
34000 N
20000 E
24000 E
Tailings pond
M.C. No. 6
M.Q. No. 2
M.C. No. 5
M.Q. No. 1
Meadow Creek Mine
M.C. No. 1
M.Q. No. 5
M.C. No. 4
M.Q. No. 6
Meadow
Stibnite airport
M.C. No. 11
M.Q. No. 7
M.Q. No. 8
M.Q. No. 9
M.C. No. 12
M.C. No. 16
haul
road
South
the
fork
East
garnet cr.
Fiddle
cr.
S.J.
Fault
M.C. #8
Zone
Monday
tunnel
MONDAY #6
MONDAY #7
M.C. #7
M.C. #9
Hennessy
cr.
Yellow Pine Mine
Shaft
Ref.
Clark Tunnel Orebody
Homestake Orebody
tunnel
Sugar
Creek
Cinnabar
tunnel
West
End
Fault
West End Orebody
Midnite
cr.
Salmon
River
Fault
Zone
LEGEND
BUILDINGS
" IN CONSTRUCTION
ORE BODIES
CLAIMS - PATENTED
" - UNPATENTED
PRINCIPAL FAULTS
TUNGSTEN MINERALIZATION
ANTIMONY - GOLD "
GOLD "
BRADLEY MINING CO.
MAP OF CENTRAL AREA
YELLOW PINE PROPERTY
STIBNITE, IDAHO
SCALE: 1" = 500'
NOVEMBER 1948
D.C.
Exhibite-D

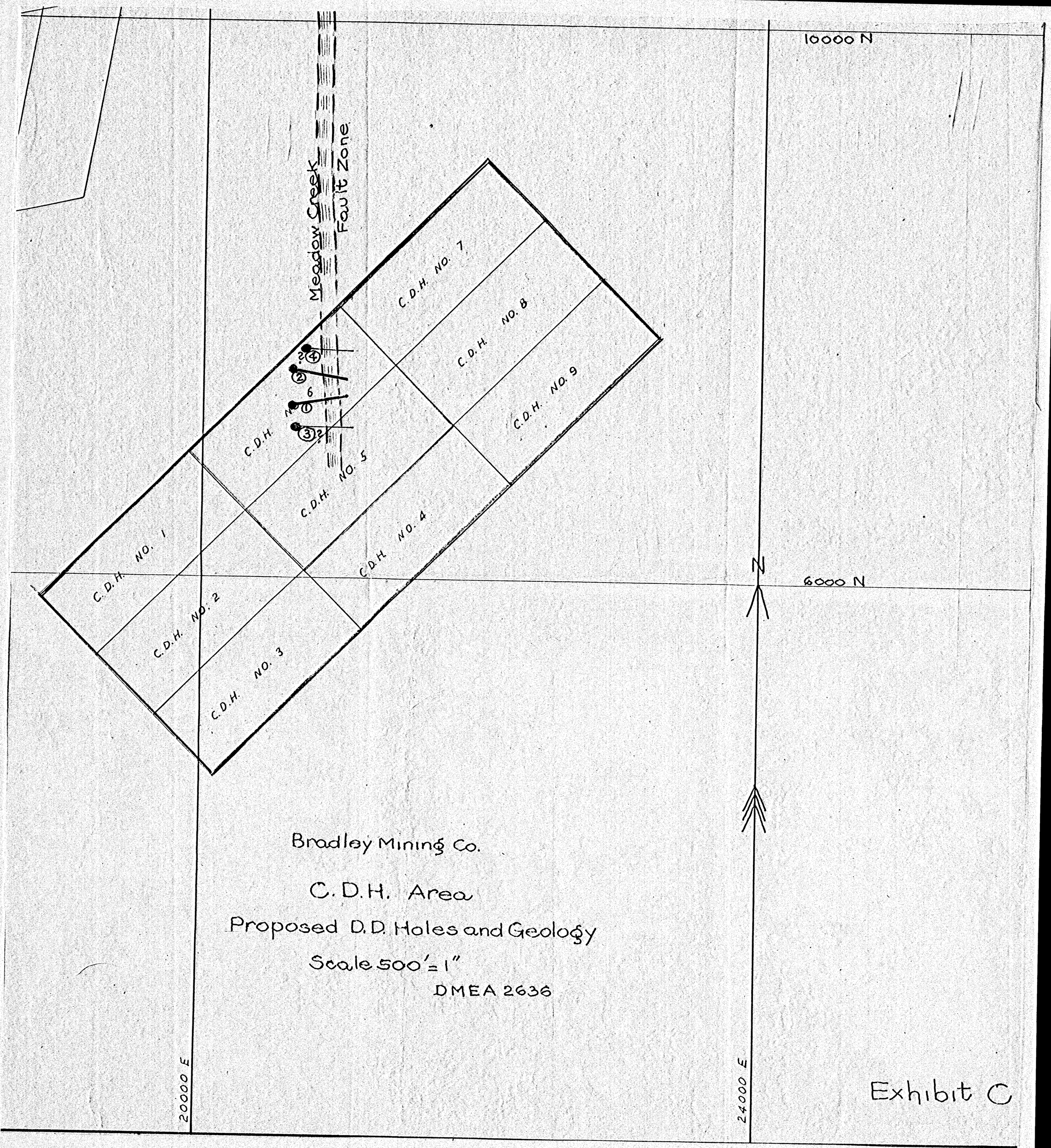
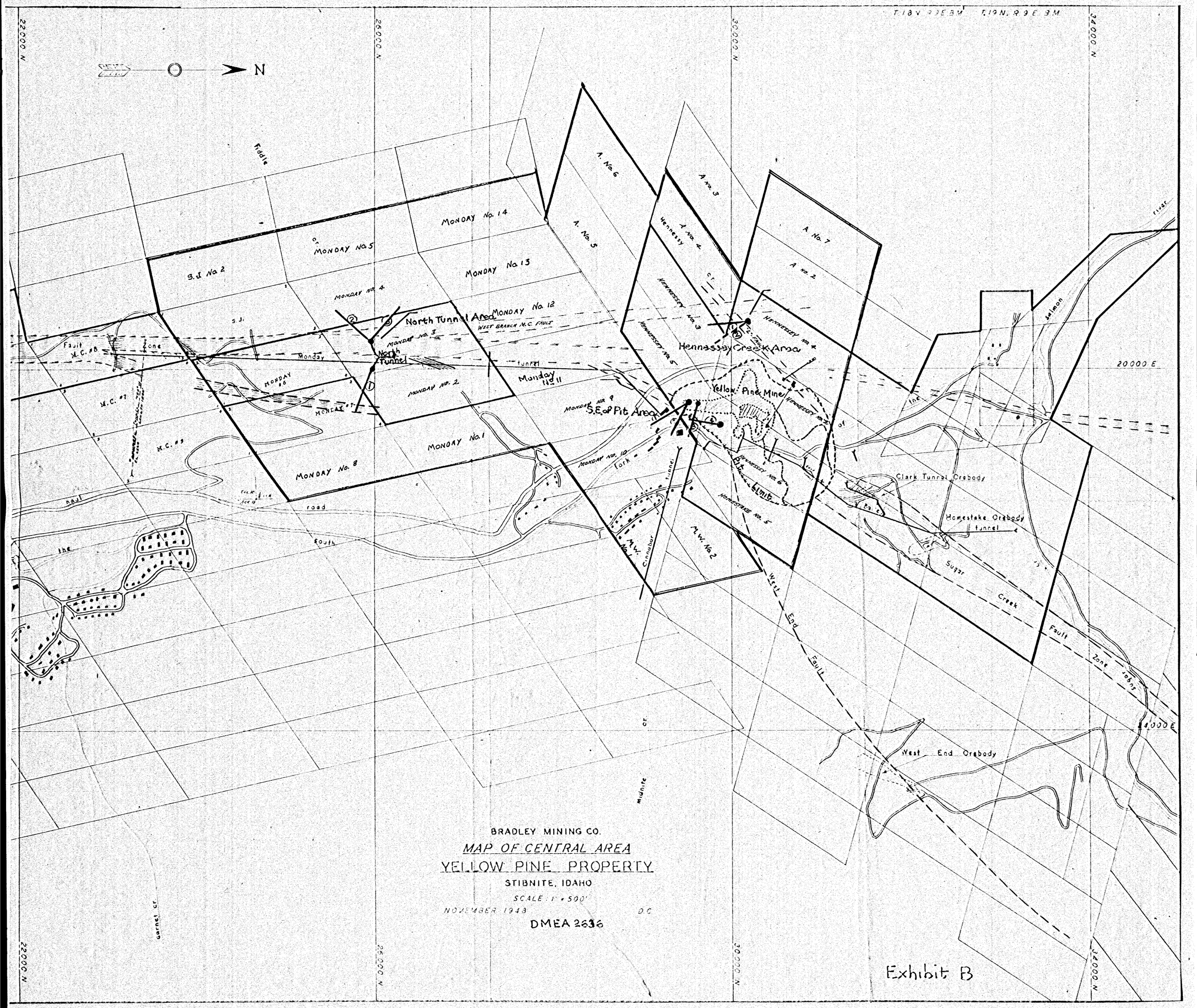

10000 N
Meadow Creek
Fault Zone
C.D.H. NO. 7
C.D.H. NO. 8
C.D.H. NO. 9
C.D.H. NO. 6
C.D.H. NO. 5
C.D.H. NO. 4
C.D.H. NO. 1
C.D.H. NO. 2
C.D.H. NO. 3
6000 N
N
20000 E
24000 E
Bradley Mining Co.
C.D.H. Area
Proposed D.D. Holes and Geology
Scale 500' = 1"
DMEA 2636

Exhibit C


N
22000 N
26000 N
30000 N
34000 N
20000 E
24000 E
Fiddle
Monday No. 14
Monday No. 5
S.J. No. 2
Monday No. 13
Monday No. 4
North Tunnel Area
Monday No. 12
West Branch M.C. Fault
Monday No. 3
North Tunnel
Monday No. 2
Monday No. 11
Monday No. 1
Monday No. 8
Monday No. 9
S.E. of Pit Area
Monday No. 10
Fork
Fault
M.C. #8
Zone
M.C. #7
M.C. #9
road
haul
South
the
A. No. 6
A. No. 5
A. No. 4
A. No. 3
A. No. 7
A. No. 2
Hennessy
Hennessey No. 3
Hennessey No. 5
Hennessey No. 4
Hennessey Creek Area
Yellow Pine Mine
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Limit
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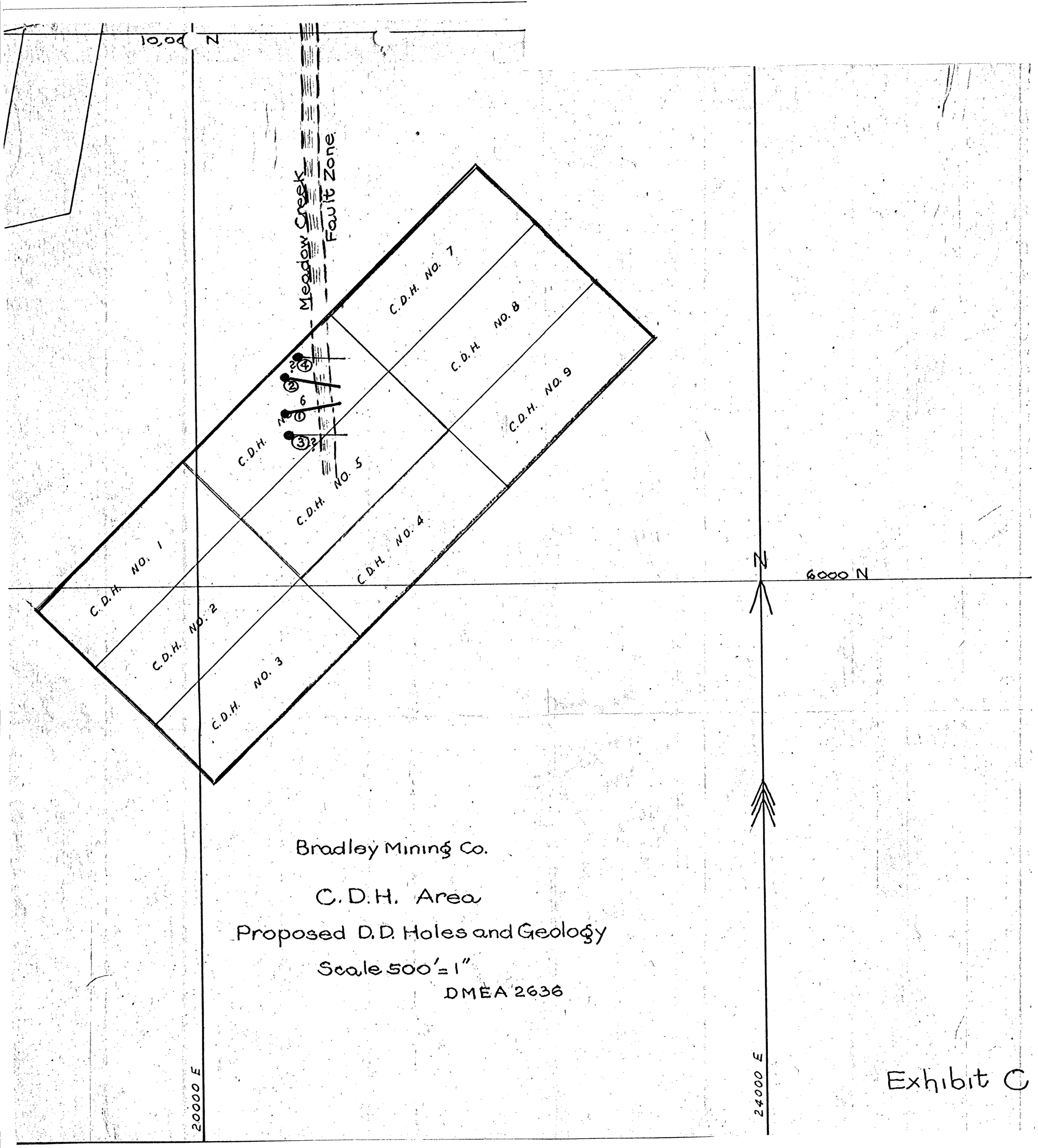
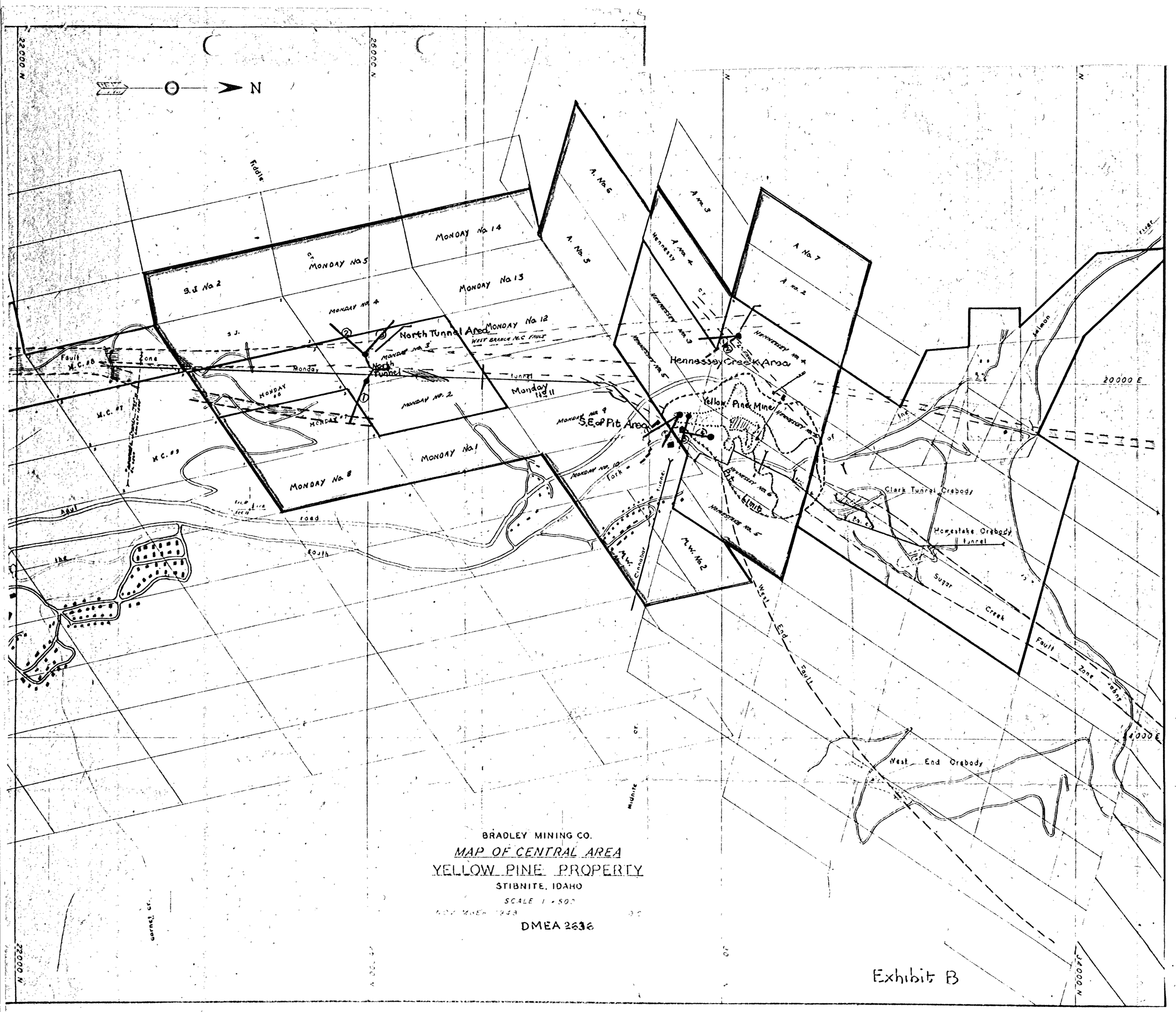
Clark Tunnel Orebody
Homestake Orebody
tunnel
Sugar
Creek
Fault
Zone
Johns
M.W. No. 2
M.W. No. 1
Cinnabar
tunnel
West
End
Fault
West End Orebody
Midnite
Garnet cr.
salmon
river
BRADLEY MINING CO.
MAP OF CENTRAL AREA
YELLOW PINE PROPERTY
STIBNITE, IDAHO
SCALE: 1" = 500'
NOVEMBER 1948
D.C.
DMEA 2636
Exhibit B


10,000 N
Meadow Creek Fault Zone
C.D.H. NO. 7
C.D.H. NO. 8
C.D.H.
C.D.H. NO. 9
C.D.H. NO. 6
C.D.H. NO. 5
C.D.H. NO. 4
C.D.H. NO. 1
C.D.H. NO. 2
C.D.H. NO. 3
N
6000 N
20000 E
24000 E
Bradley Mining Co.
C.D.H. Area
Proposed D.D. Holes and Geology
Scale 500'=1"
DMEA 2636
Exhibit C



BRADLEY MINING CO.

MAP OF CENTRAL AREA

YELLOW PINE PROPERTY

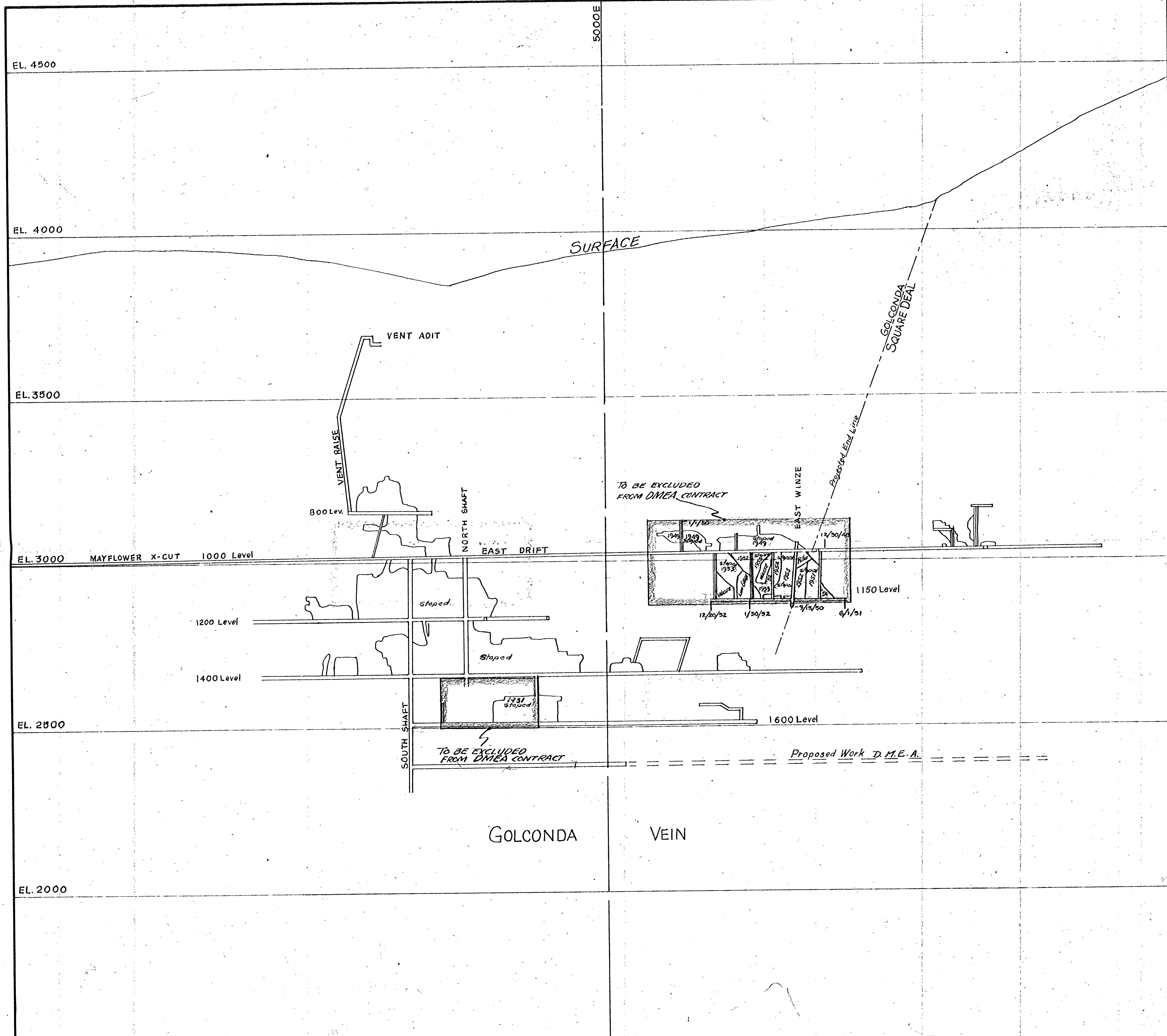
STIBNITE, IDAHO

SCALE 1" = 500'

NOV MAR 1948

DMEA 2636

Exhibit B



LONGITUDINL SECTION SHOWING STOPING GOLCONDA LEAD MINES SHOSHONE COUNTY, IDAHO

OCTOBER, 1952

SCALE 1" = 200'

R.A. KERR

Docket No DMEA 2636

Figure 1

SIMPLIFIED GEOLOGIC MAP SHOWING DIAMOND DRILL HOLES, STIBNITE AREA

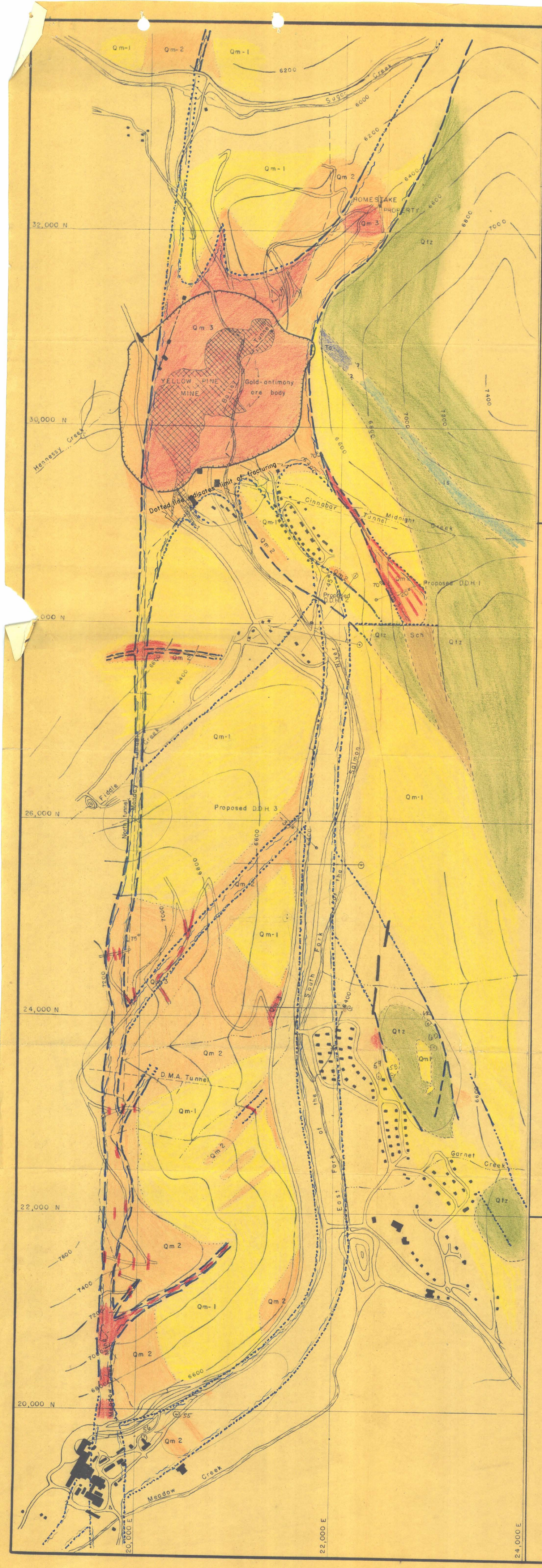
BRADLEY MINING Co

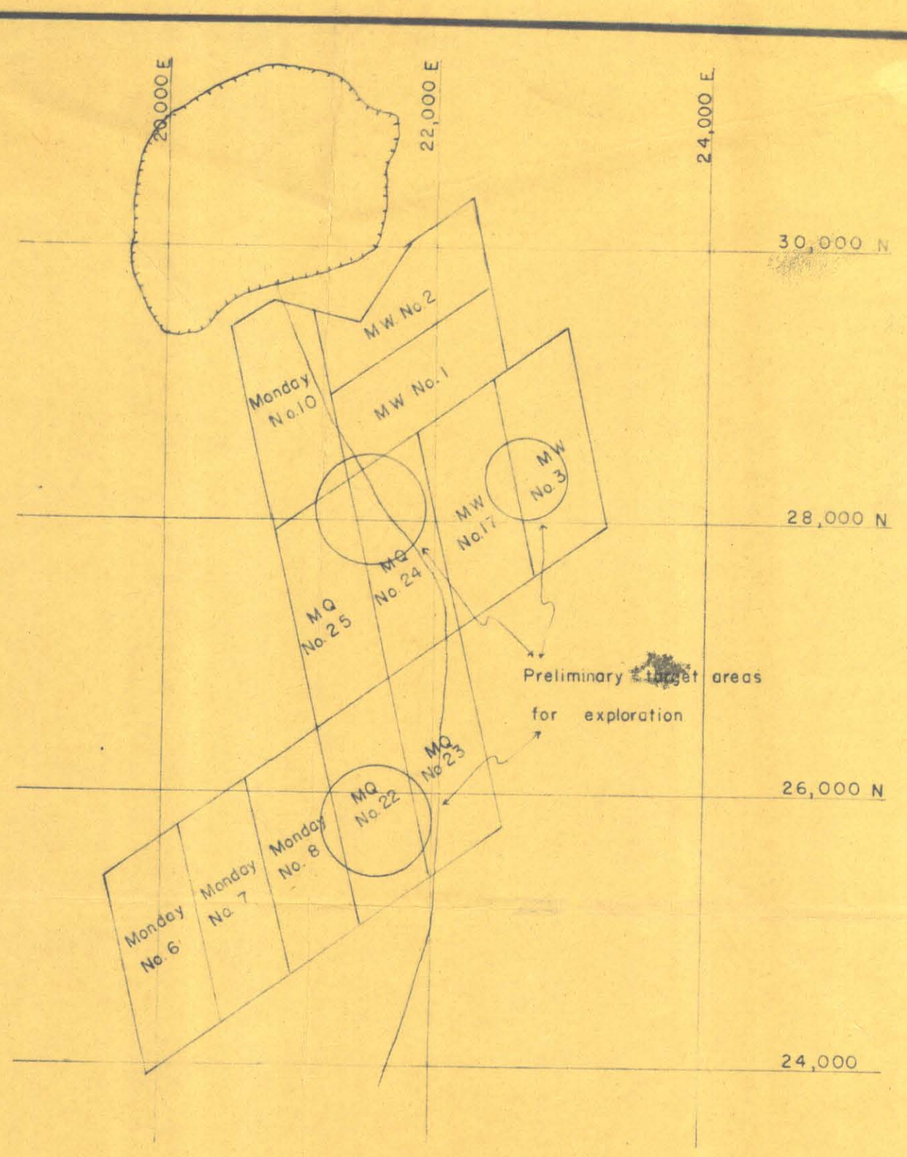
Valley County, Idaho

Scale 1" = 500'

Modified from Plate 33, U.S.G.S. Bull. 969 F

Figure 1





MAP SHOWING CLAIMS INCLUDED IN EXPLORATION PROJECT

0 1000 2000 3000 feet

EXPLANATION

Ta	Tactite
Qm-1	Fresh quartz monzonite
Qm-2	Quartz monzonite, limonite on fractures
Qm-3	Quartz monzonite, sericitized, limonite on fractures
Qtz	Quartzite
Ls	Limestone
Sch	Mica schist
	Fault
	Inferred fault
	Fault zone
	Contact
	Gradational contact

GEOLOGIC MAP OF STIBNITE AREA
BRADLEY MINING COMPANY
STIBNITE, IDAHO

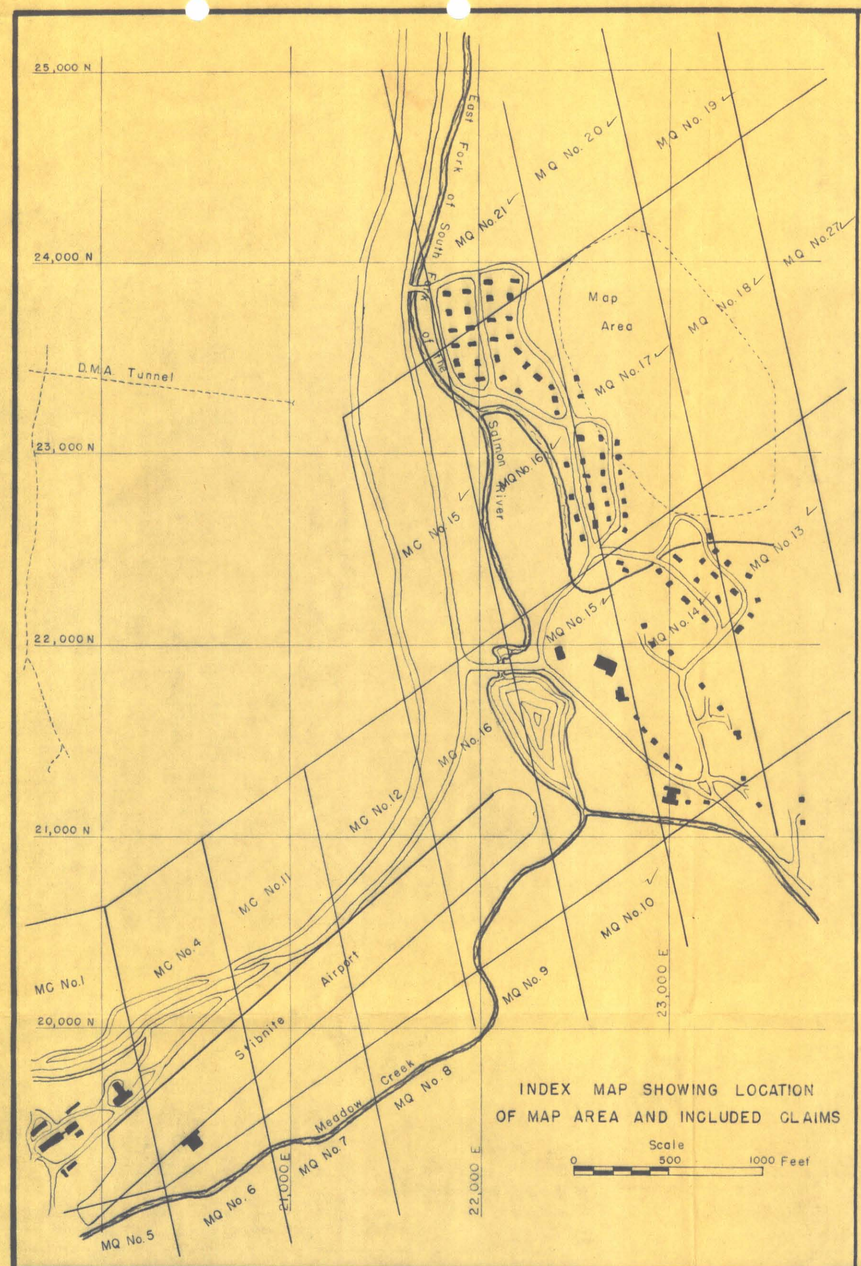
SCALE

0 500 1000 1500 2000 2500 3000 FEET

CONTOUR INTERVAL 200 FEET

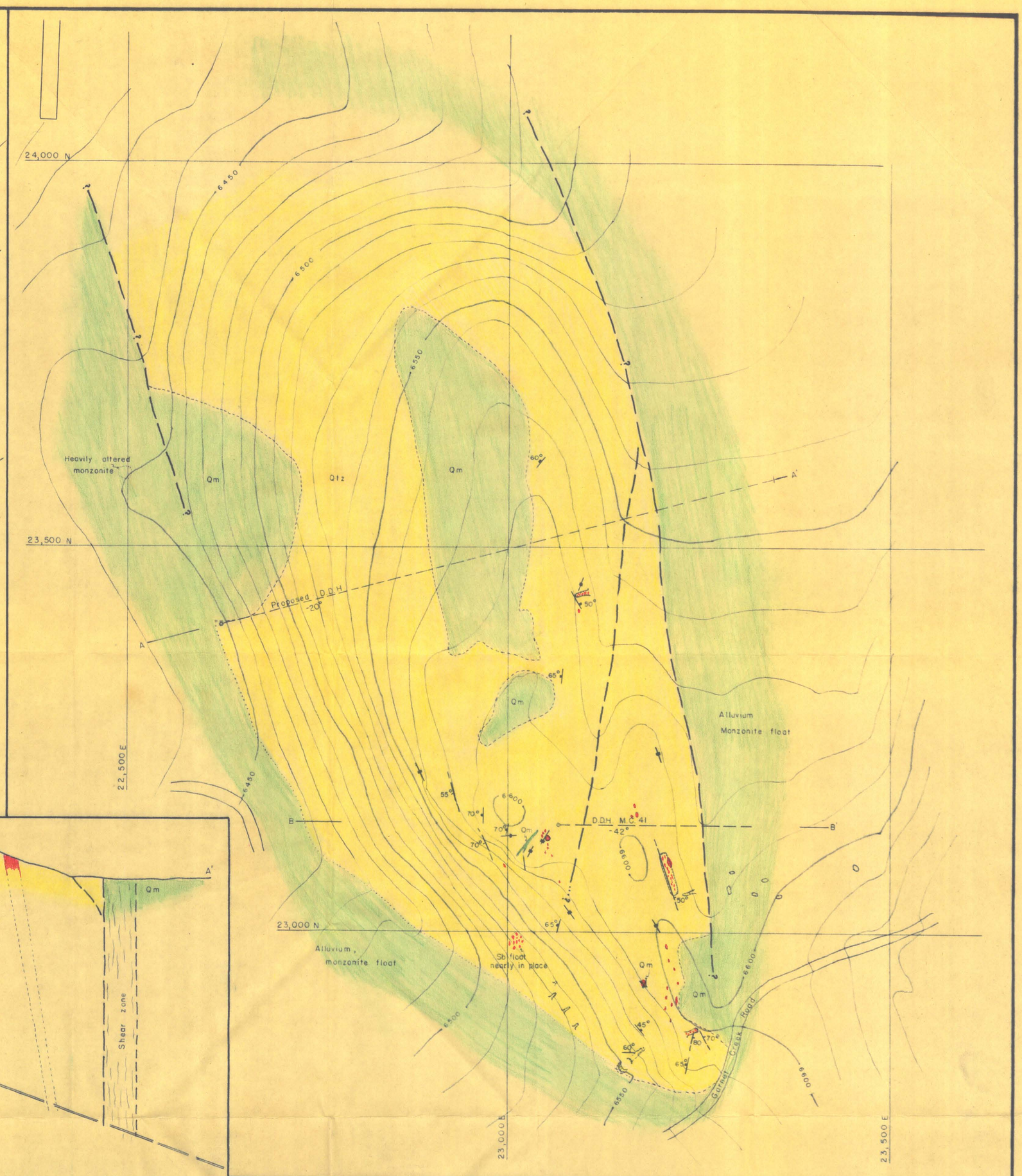
Geology and topography by J.R. Cooper et al, 1943

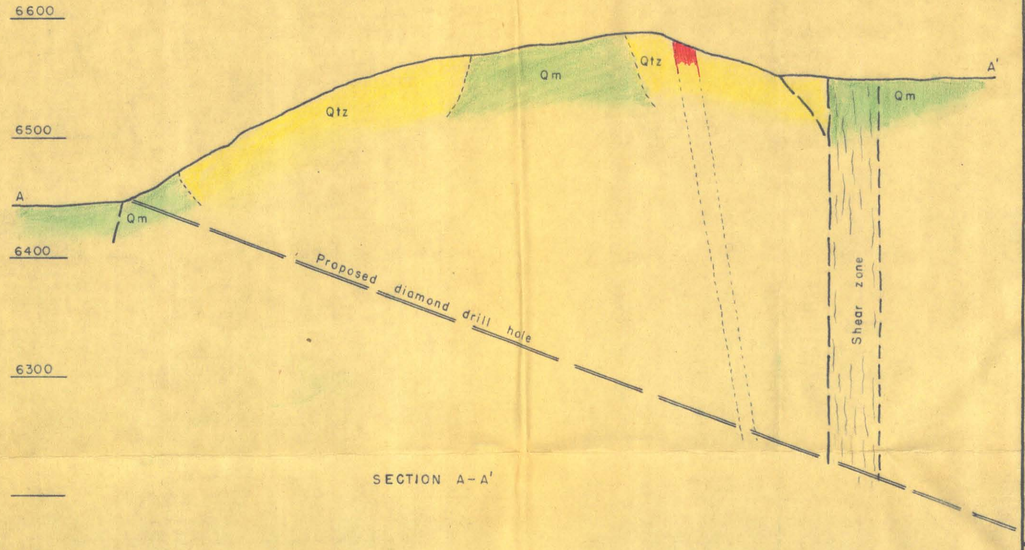
Modified by Peter Jonalemon, August 1954



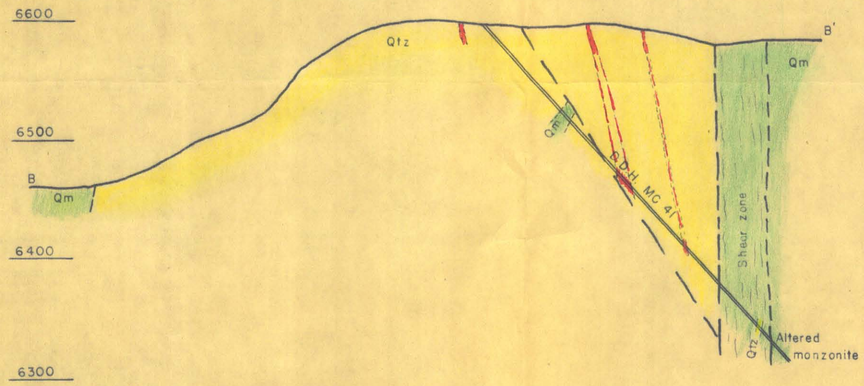
INDEX MAP SHOWING LOCATION OF MAP AREA AND INCLUDED CLAIMS

Scale 0 500 1000 Feet





SECTION A-A'



SECTION B-B'

GEOLOGIC MAP OF SCOUT RIDGE AREA
BRADLEY MINING COMPANY
STIBNITE, IDAHO

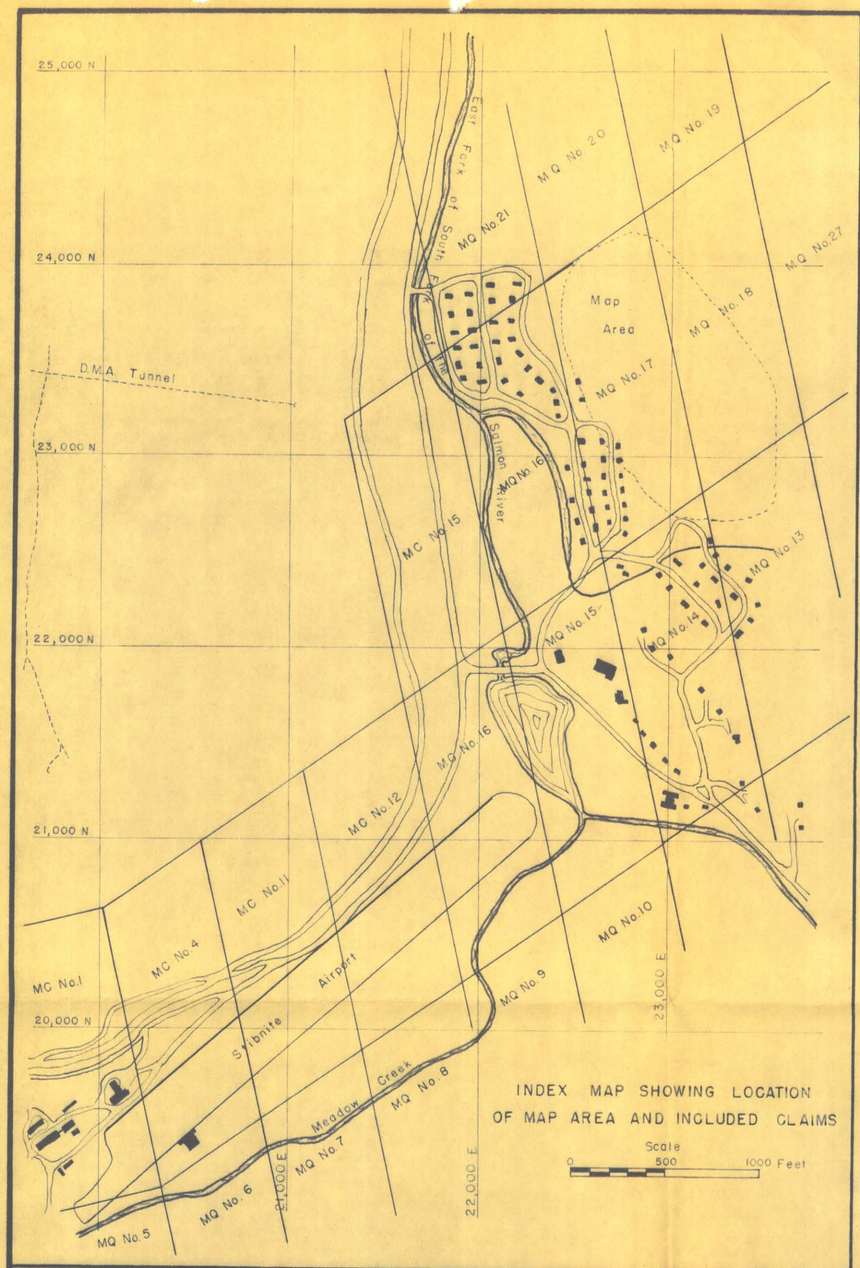
SCALE

0 50 100 200 300 400 500 600 Feet

CONTOUR INTERVAL IS 10 FEET

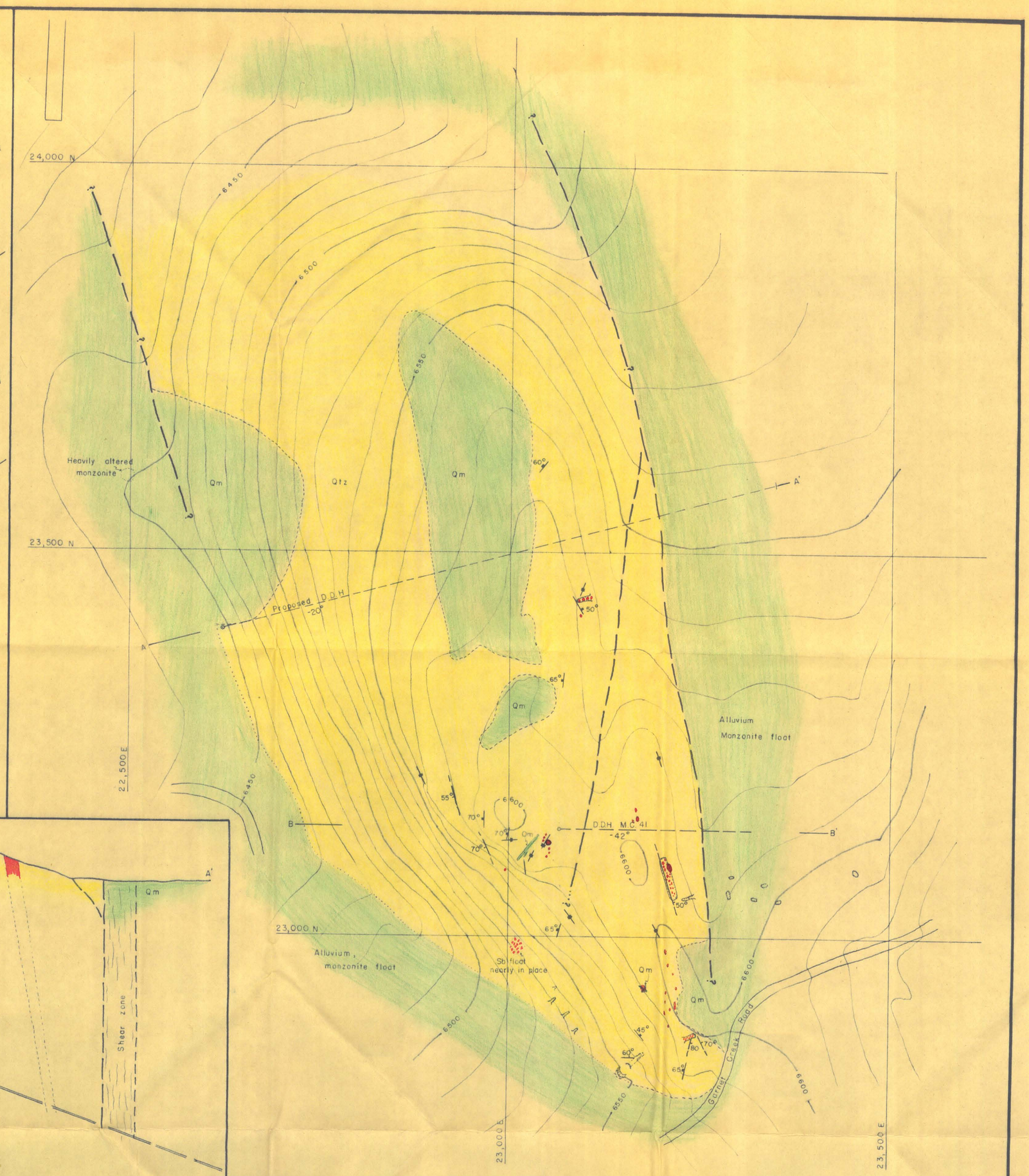
Qm	Quartz Monzonite	50°	Fault
Qtz	Quartzite	80°	Fracture
	Stibnite		Approximate contact

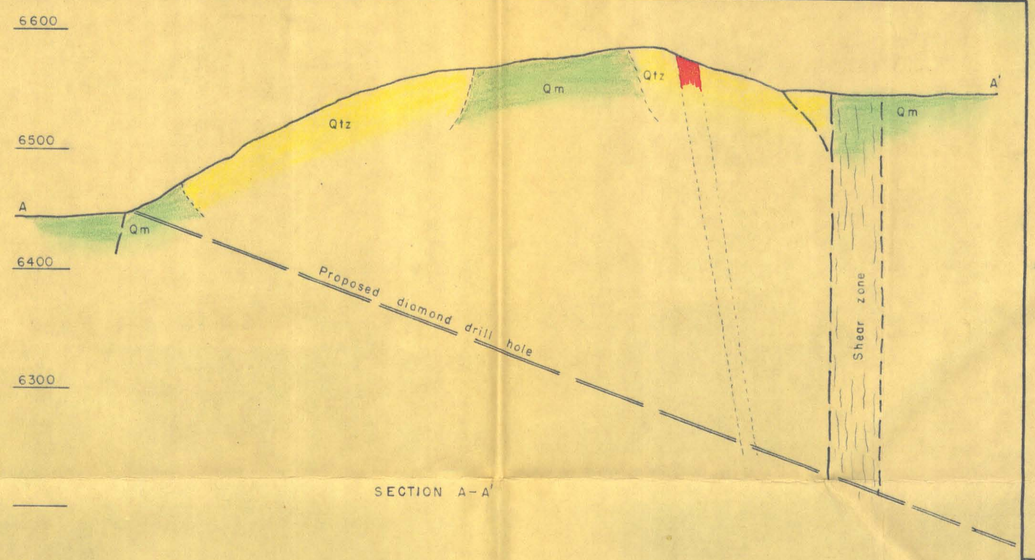
Geology by Peter Jordemon
July 30, 1954



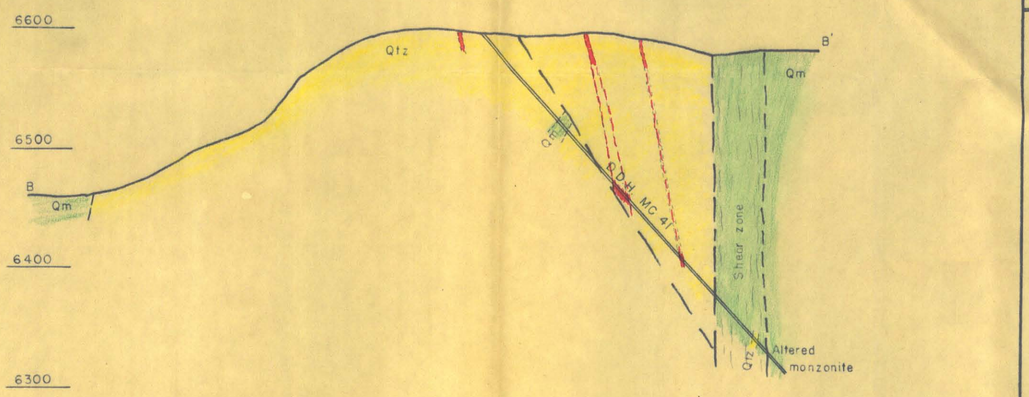
INDEX MAP SHOWING LOCATION OF MAP AREA AND INCLUDED CLAIMS

Scale 0 500 1000 Feet





SECTION A-A'



SECTION B-B'

GEOLOGIC MAP OF SCOUT RIDGE AREA
BRADLEY MINING COMPANY
STIBNITE, IDAHO

SCALE 0 50 100 200 300 400 500 600 Feet

CONTOUR INTERVAL IS 10 FEET

Qm — Quartz Monzonite

Qtz — Quartzite

Stibnite

Fault (50°)

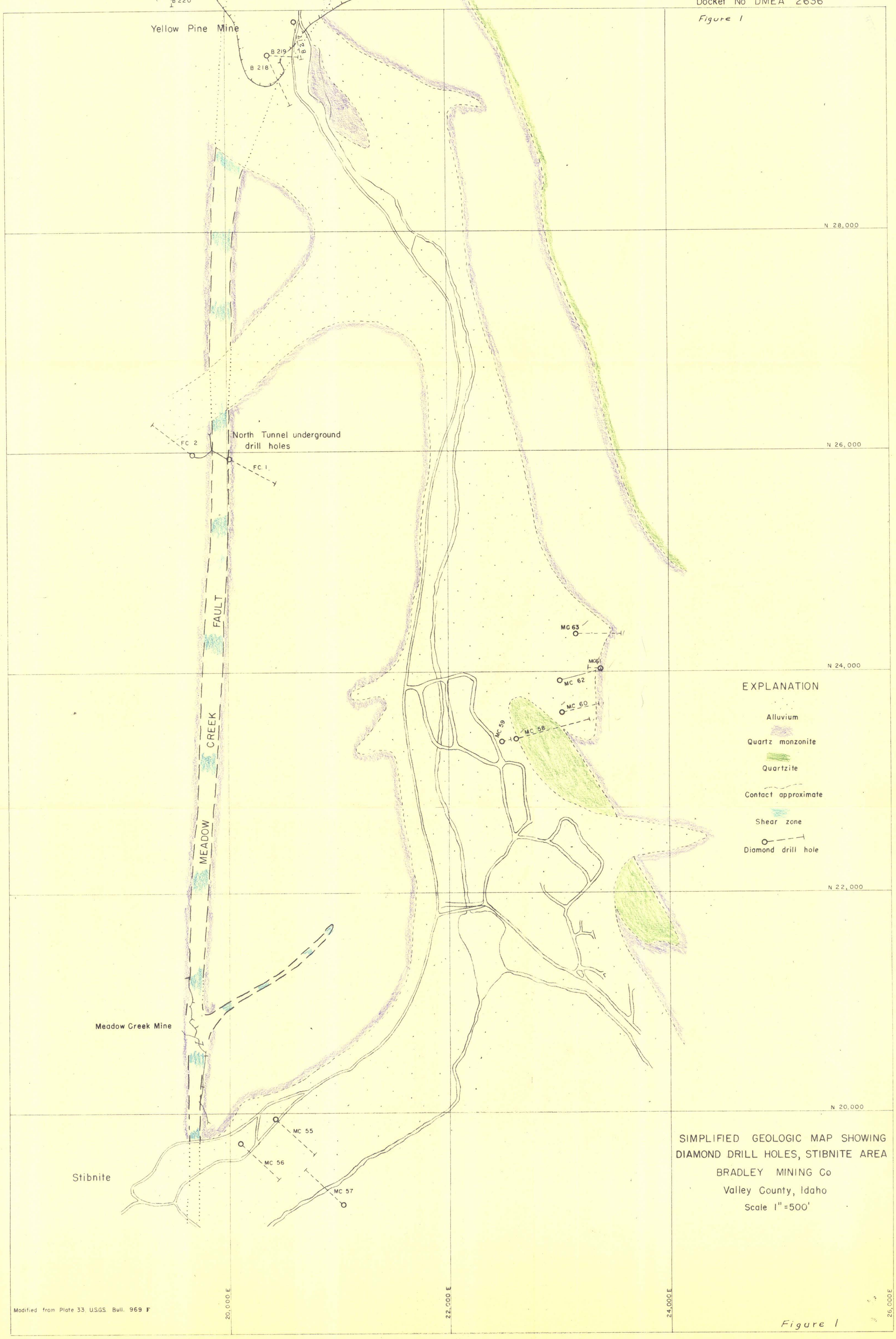
Fracture (80°)

Approximate contact

Geology by Peter Jordemon
July 30, 1954

Docket No DMEA 2636

Figure 1



SIMPLIFIED GEOLOGIC MAP SHOWING DIAMOND DRILL HOLES, STIBNITE AREA

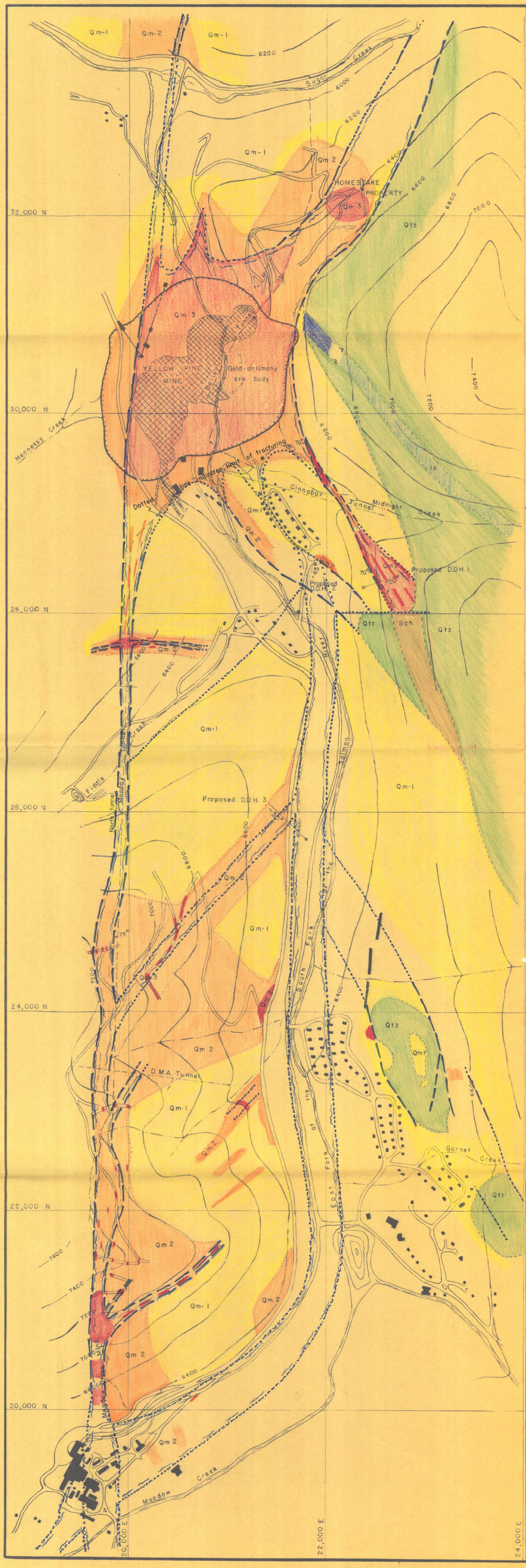
BRADLEY MINING Co

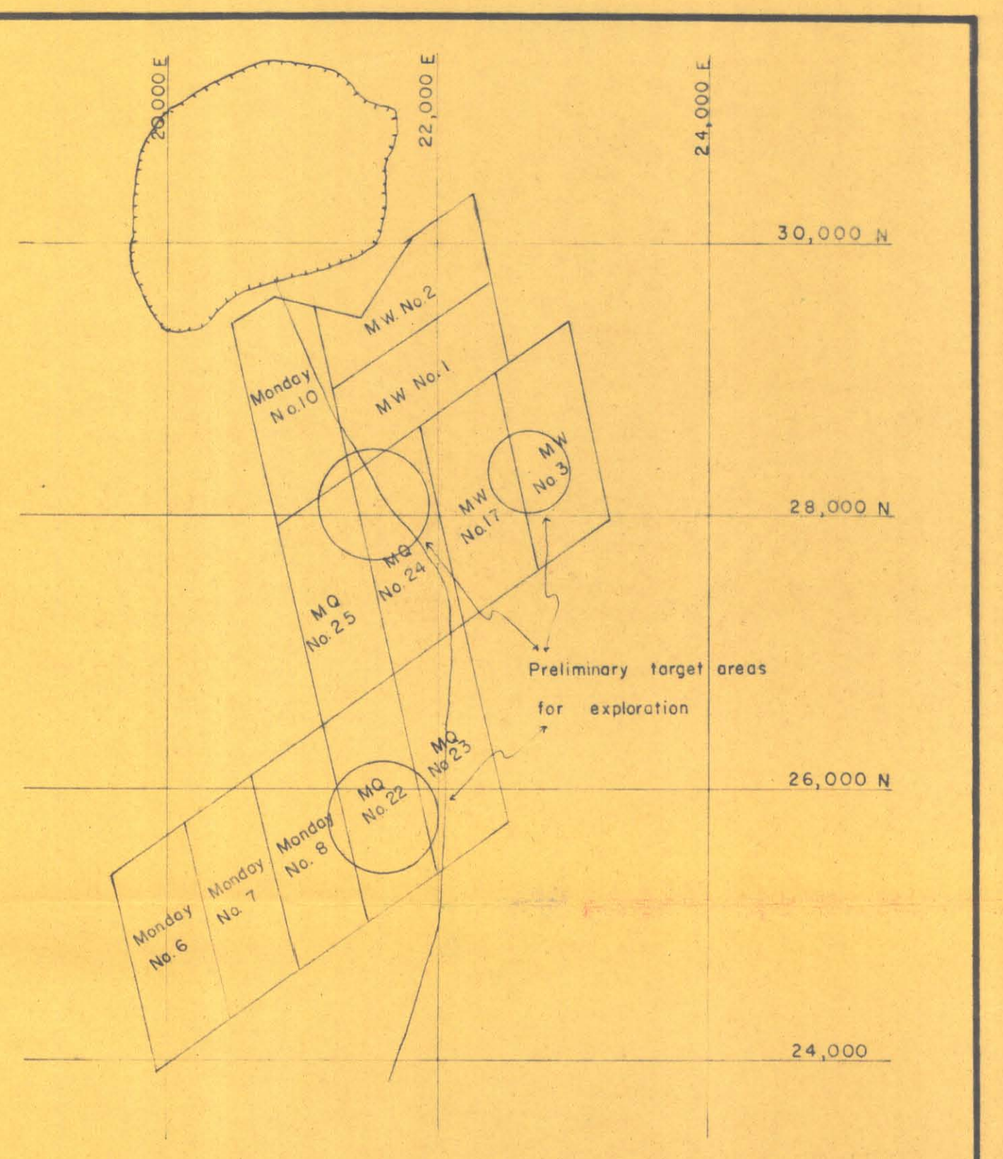
Valley County, Idaho

Scale 1" = 500'

Modified from Plate 33, U.S.G.S. Bull. 969 F

Figure 1





MAP SHOWING CLAIMS INCLUDED IN EXPLORATION PROJECT

0 1000 2000 3000 feet

EXPLANATION

- Ta — Tactite
- Qm-1 — Fresh quartz monzonite
- Qm-2 — Quartz monzonite, limonite on fractures
- Qm-3 — Quartz monzonite, sericitized, limonite on fractures
- Qtz — Quartzite
- Ls — Limestone
- Sch — Mica schist
- Fault
- Inferred fault
- Fault zone
- Contact
- Gradational contact

GEOLOGIC MAP OF STIBNITE AREA
BRADLEY MINING COMPANY
STIBNITE, IDAHO

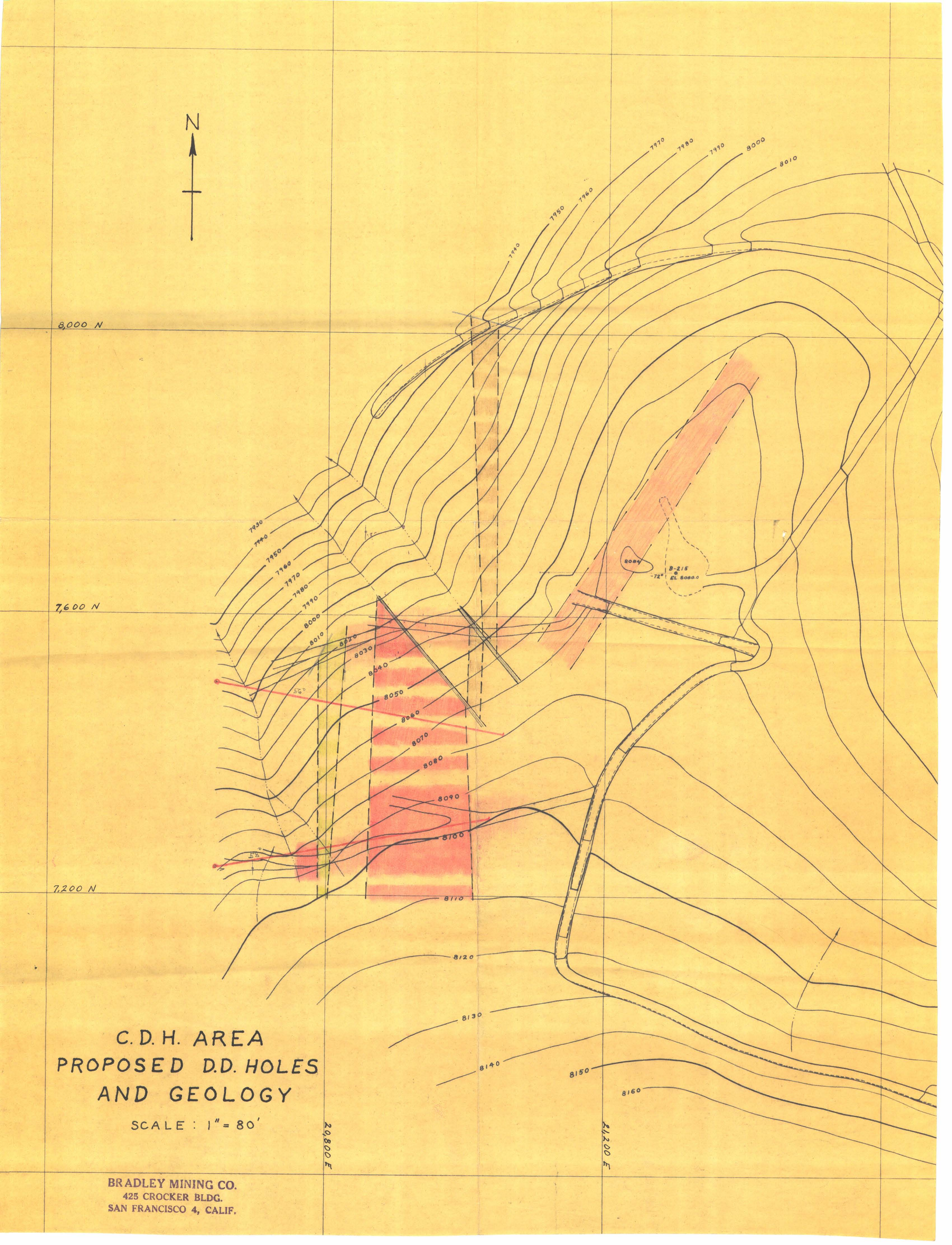
SCALE

0 500 1000 1500 2000 2500 3000 FEET

CONTOUR INTERVAL 200 FEET

Geology and topography by J.R. Cooper et al, 1943

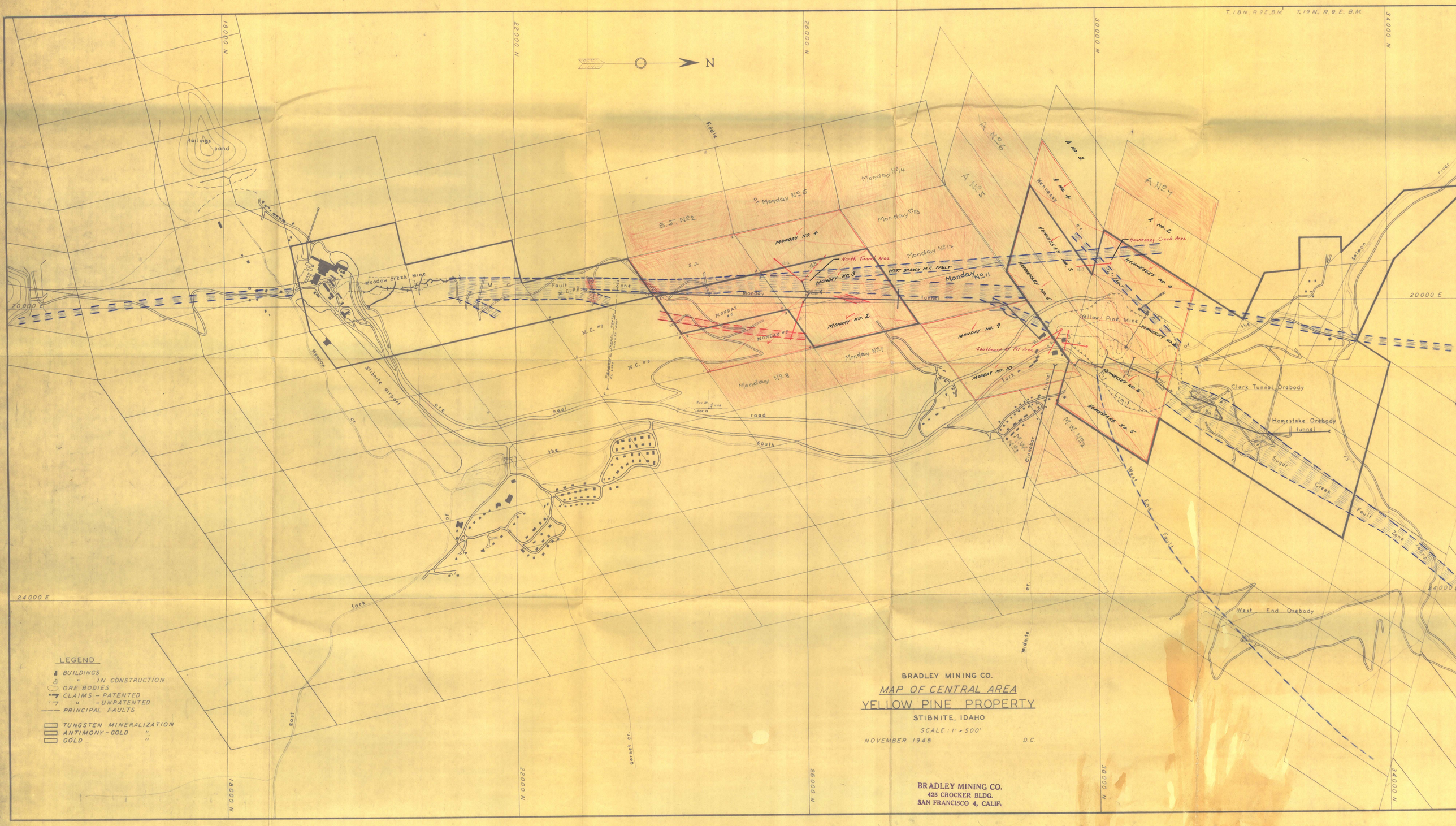
Modified by Peter Jordemon, August 1954

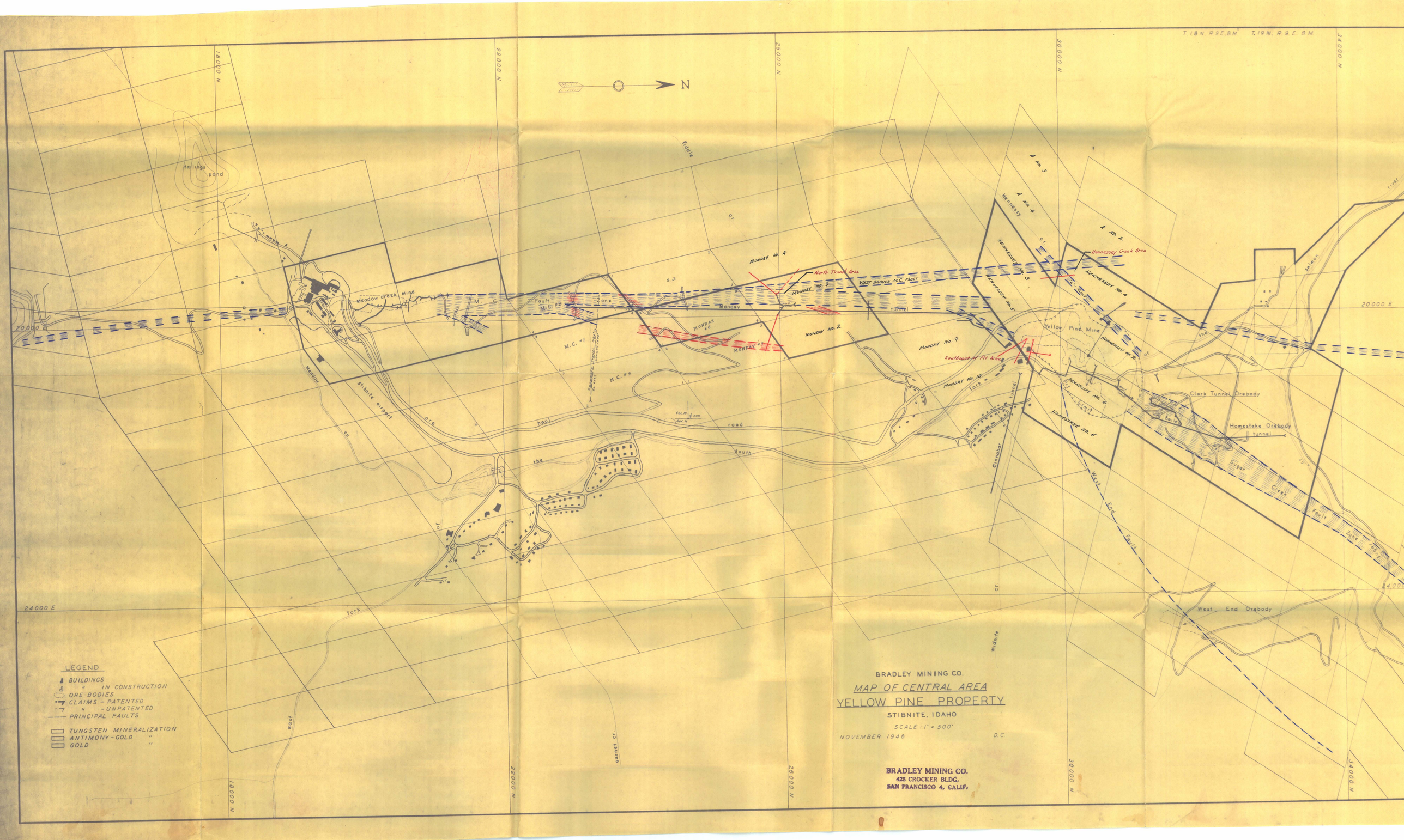


C.D.H. AREA
PROPOSED D.D. HOLES AND GEOLOGY

SCALE : 1" = 80'

BRADLEY MINING CO.
425 CROCKER BLDG.
SAN FRANCISCO 4, CALIF.


T. 18 N. R. 9 E. B.M.
T. 19 N. R. 9 E. B.M.
N
18000 N
22000 N
26000 N
30000 N
34000 N
20000 E
24000 E
tailings pond
Meadow creek Mine
Meadow
Stibnite airport
ore haul road
the fork of
East fork
garnet cr.
Fiddle cr.
Midnite cr.
Cinnabar
Salmon river
M. C.
M.C. #7
M.C. #9
Fault Zone
Monday
Monday No. 1
Monday No. 2
Monday No. 3
Monday No. 4
Monday No. 5
Monday No. 6
Monday No. 7
Monday No. 8
Monday No. 9
Monday No. 10
Monday No. 11
Monday No. 12
Monday No. 13
Monday No. 14
S. J.
S. J. No. 2
A. No. 2
A. No. 3
A. No. 4
A. No. 5
A. No. 6
Hennessy
Hennessey No. 3
Hennessey No. 4
Hennessey No. 5
Hennessey No. 6
Homestake No. 5
M.M. No. 2
M.M. No. 1
North Tunnel Area
West Branch M.C. Fault
Southeast of Pit Area
Hennessey Creek Area
Yellow Pine Mine
Limit
Clark Tunnel Orebody
Homestake Orebody
tunnel
Sugar Creek
Fault Zone
West End Fault
West End Orebody
LEGEND
BUILDINGS
" IN CONSTRUCTION
ORE BODIES
CLAIMS - PATENTED
" - UNPATENTED
PRINCIPAL FAULTS
TUNGSTEN MINERALIZATION
ANTIMONY - GOLD "
GOLD "
BRADLEY MINING CO.
MAP OF CENTRAL AREA
YELLOW PINE PROPERTY
STIBNITE, IDAHO
SCALE: 1" = 500'
NOVEMBER 1948
D.C.
BRADLEY MINING CO.
425 CROCKER BLDG.
SAN FRANCISCO 4, CALIF.


T.18N. R.9E.B.M.
T.19N. R.9E.B.M.
N
18000 N
22000 N
26000 N
30000 N
34000 N
20000 E
24000 E
Tailings pond
Meadow Creek Mine
Stibnite airport
ore haul road
the South Fork of East Fork
Fiddle Cr.
Garnet Cr.
Sugar Creek
Salmon River
Monday No. 4
North Tunnel Area
Monday No. 5
WEST BRANCH M.C. FAULT
Monday No. 2
Monday No. 9
Monday No. 10
Southeast Pit Area
Hennessey Creek Area
Hennessey No. 4
Hennessey No. 5
Hennessey No. 6
Hennessey No. 7
Yellow Pine Mine
Clark Tunnel Orebody
Homestake Orebody
tunnel
Homestake No. 5
West End Fault
West End Orebody
Fault Zone
Cinnabar
Widnite
LEGEND
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SCALE: 1" = 500'
NOVEMBER 1948
D.C.
BRADLEY MINING CO.
425 CROCKER BLDG.
SAN FRANCISCO 4, CALIF.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

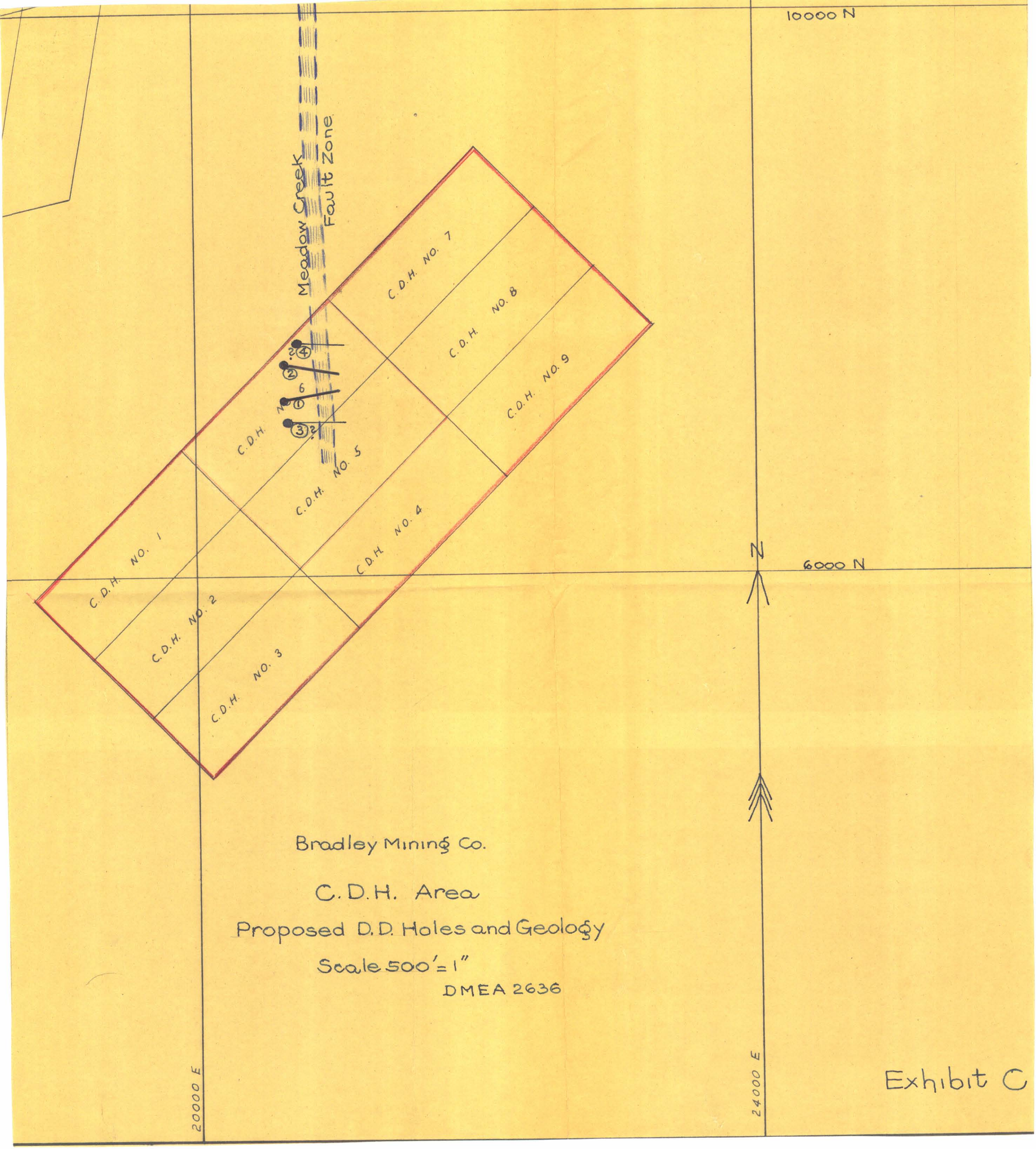
IDAHO
(VALLEY COUNTY)
YELLOW PINE QUADRANGLE
15-MINUTE SERIES

Topography by C.A. Stonesifer and J.M. Holmes
Surveyed in 1935-1937

Polyconic projection. 1927 North American datum
5000 yard grid based on U.S. zone system, F
10000 foot grid based on Idaho (West) rectangular coordinate system

YELLOW PINE, IDAHO
Edition of 1943

N4445-W11515/15



Bradley Mining Co.

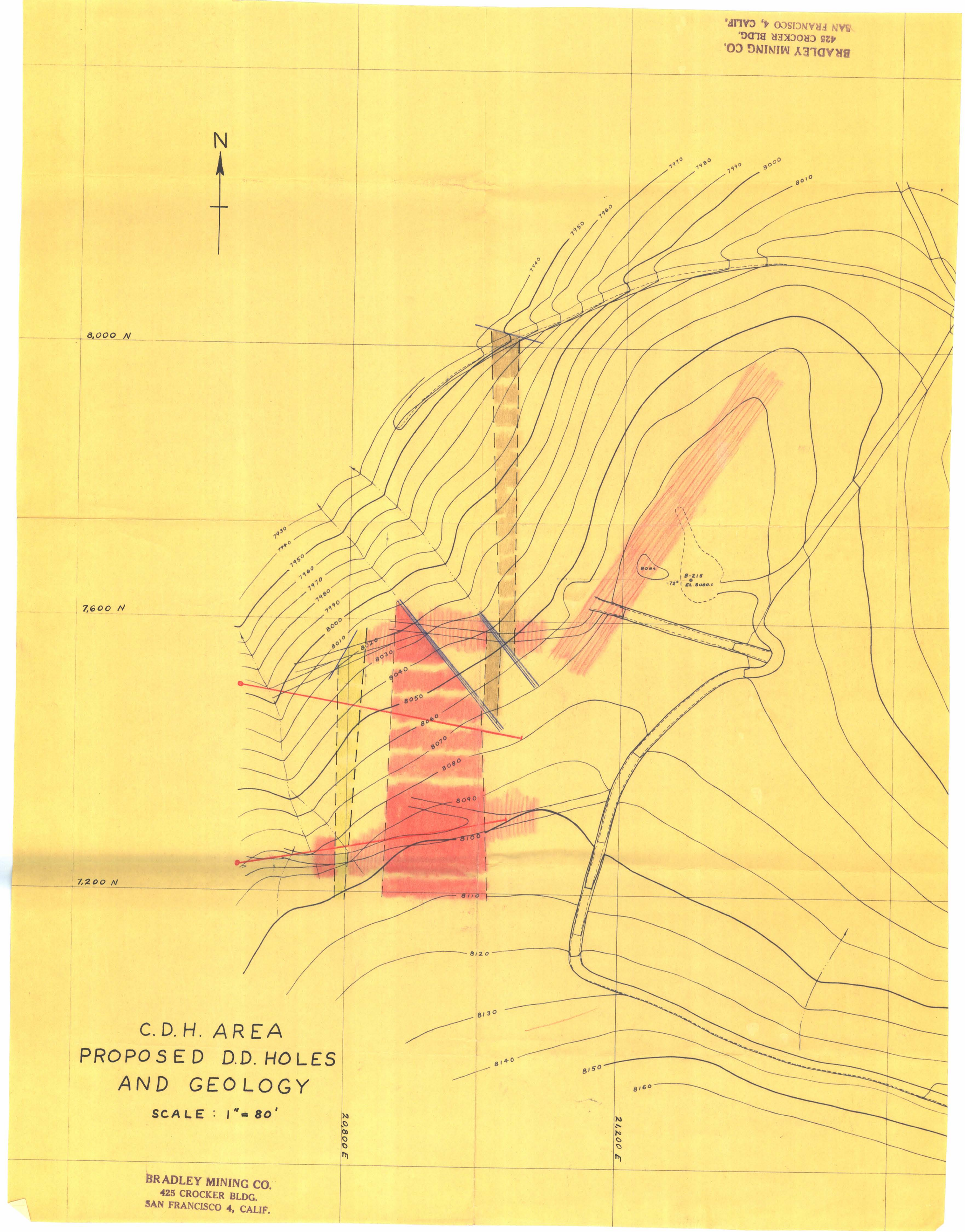
C.D.H. Area

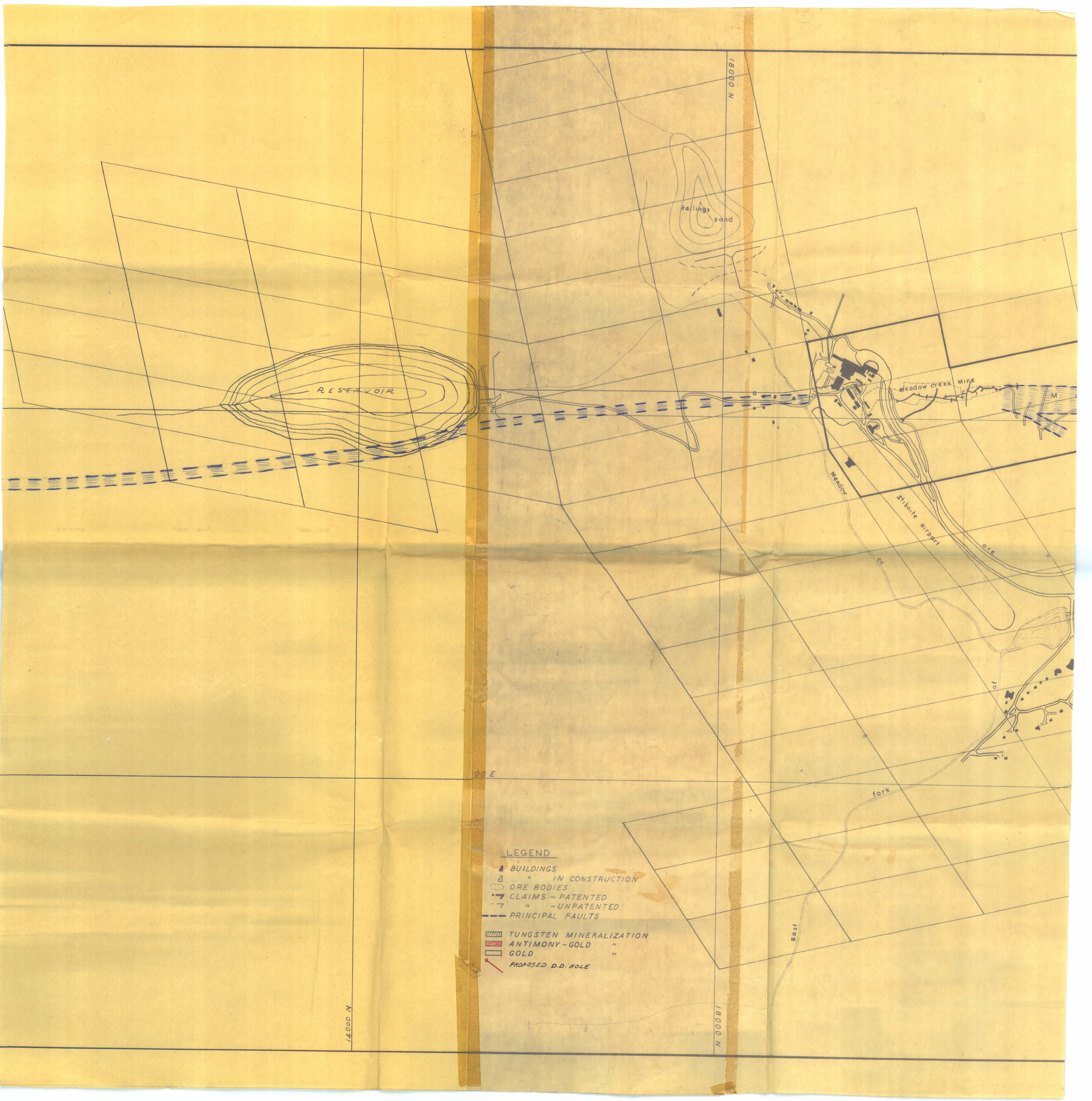
Proposed D.D. Holes and Geology

Scale 500' = 1"

DMEA 2636

Exhibit C


BRADLEY MINING CO.
425 CROCKER BLDG.
SAN FRANCISCO 4, CALIF.
N
8,000 N
7,600 N
7,200 N
20,800 E
21,200 E
7930
7940
7950
7960
7970
7980
7990
8000
8010
8020
8030
8040
8050
8060
8070
8080
8090
8100
8110
8120
8130
8140
8150
8160
8084
B-215
-72°
EL. 8080.0
C.D.H. AREA
PROPOSED D.D. HOLES
AND GEOLOGY
SCALE : 1" = 80'
BRADLEY MINING CO.
425 CROCKER BLDG.
SAN FRANCISCO 4, CALIF.


RESERVOIR
tailings pond
Meadow Creek Mine
Stibnite airport
Meadow Cr.
East fork
N 18000
N 14000
00 E
LEGEND
BUILDINGS
" IN CONSTRUCTION
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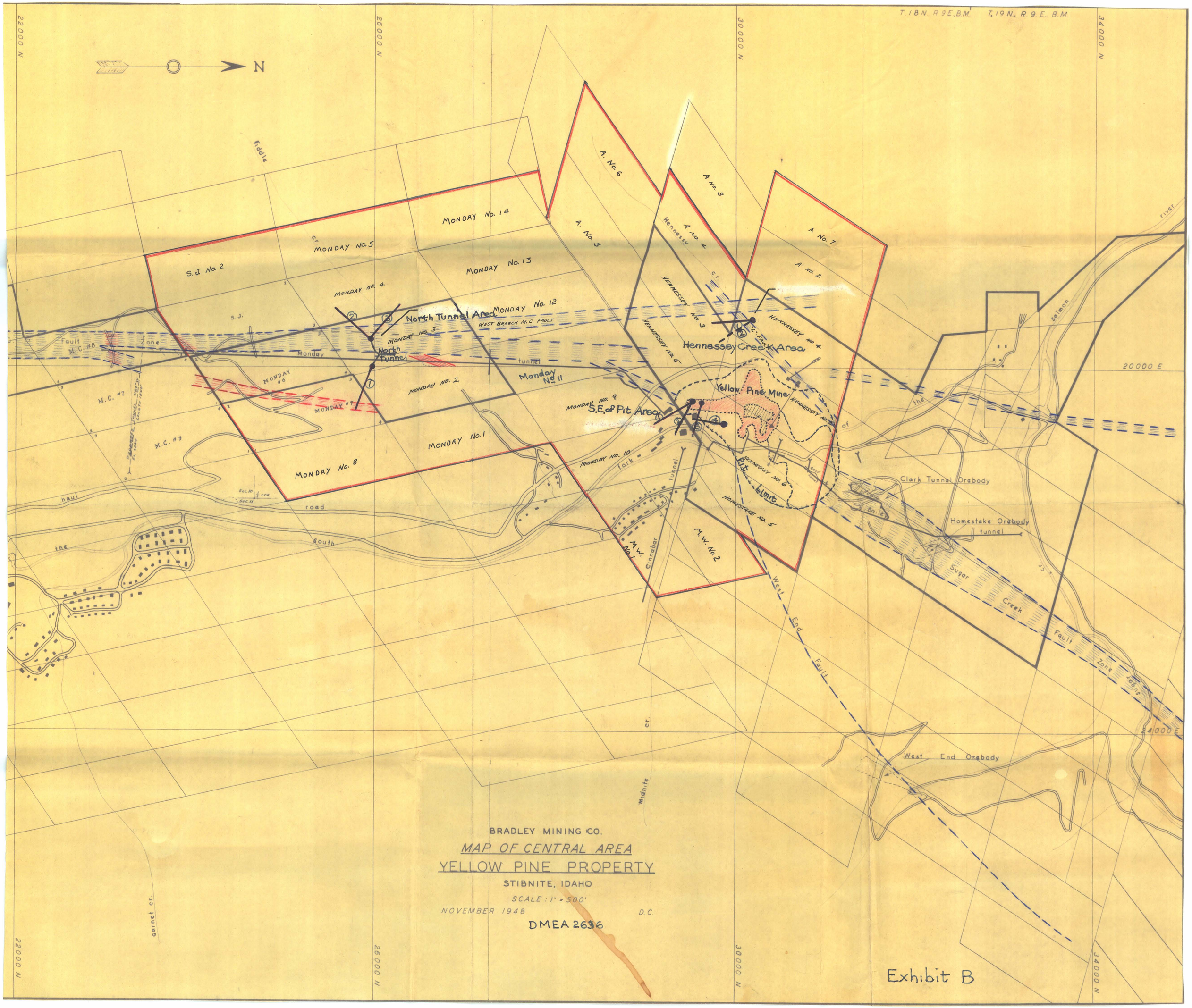
ANTIMONY - GOLD "
GOLD "
PROPOSED D.D. HOLE



BRADLEY MINING CO.

MAP OF CENTRAL AREA

YELLOW PINE PROPERTY

STIBNITE, IDAHO

SCALE: 1" = 500'

NOVEMBER 1948 D.C.

DMEA 2636

Exhibit B