Mining Division
Date Rec'd.

DEC 12 1952

BUREAU OF MINES
Denver, Colorado

DEC 1 0 1952

Mr. Fred A. Brooks
Brooks-Young Mining Company
Box 63
Idaho Springs, Colorado

Re: Docket No. [illegible]-2112X (Lead-Zinc)
Brooks-Young Mining Company
Summit County, Colorado

Dear Mr. Young:

On April 18, 1952 we sent to our Denver Regional Office a proposed exploration project contract covering the subject application. On November 24, the proposed contract was returned to this office, without having been executed. It was held in the Denver Office for those several months at your request, pending transactions concerning the ownership of the property.

On October 24 the Denver Office wrote you a letter informing that some definite action should be taken on the contract not later than November 24, 1952 or the docket would be closed.

Since you have taken no action on the contract to date, nor answered the aforementioned letter, we regret to advise you that the subject docket has been closed and removed from the active file.

If, in the future, you wish to present a new application covering part or all of the work proposed in the subject application, the closed docket will be available for reference.

Sincerely yours,

C. O. Mittendorf

Administrator

HFKeller/hmj
(12-10-52)
Copy to: Adm. Reading File
Op. Committee
Docket
Mr. Keller (2)
Region IV (2)
Mr. Kinkle
Mr. Bishop

R. DB.

Home

224 New Customhouse
Denver 2, Colorado

November 24, 1952

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract Idm-E-298, Docket DMEA 2112, Brooks-Young Mining Company

Enclosed are six copies of Contract Idm-E-298. All copies have been signed by the Acting Administrator, DMEA, and were forwarded to this office for the operator's signature on April 18, 1952.

Mr. Brooks of the Brooks-Young Mining Company was in this office several times during the summer months. At that time he stated that his nephew had bought out Mr. Young's interest in the company and was attempting to buy out Mr. Schoonover. Mr. Brooks requested that we hold the contract in this office pending completion of these transactions.

We have not heard from Mr. Brooks for several months. On October 24, 1952, we wrote Mr. Brooks and informed him that if we did not hear from him within 30 days we would place this contract in our inactive file. Since this contract was signed by the Acting Administrator we are returning all copies to you.

If the applicant at some later date desires to enter into an exploration project contract we believe it would be advisable to prepare the contract on the short form. We will keep you informed of any developments concerning this application.

ENCLOSURES

W. H. King
W. H. King

JFS:jp
cc Contract
Chron
WMTraver
AHKoschmann (2)

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

DOCKET NO. DMEA 2112

COMMODITY Lead - Zinc

Idm-E-298

COPY

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

EXPLORATION PROJECT CONTRACT [1]

IT IS AGREED this 17th day of April, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Brooks-Young Mining Company, a partnership composed of Herbert T. Young, Fred W. Brooks, and Marian A. Schoonover, Idaho Springs, Colorado

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 Colorado, County of Summit, described as follows: [3] The following lode mining claims in the Peru mining district situated in the SE¼, Sec. 25, T. 5S., R.76W.; Leila, MS 1933A; Carroll, MS 1932A; Aldrich, MS 969A; Allen Emory, 8517.

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: None

~~(*b*) That the Operator is entitled to 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 Sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] lead and zinc in or upon the described land; and shall bring the project to completion within a period of Sixteen 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 fifty (50) percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $26,500.00, which is 50 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

/s/ C.O. Mittendorf

By _____

Acting Administrator,
Defense Minerals Exploration Administration

Brooks Young Mining Company
(Operator)

By _____ (Partner)

By _____ (Partner)

By _____ (Partner)

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]

U. S. GOVERNMENT PRINTING OFFICE 16—66328-1

EXPLORATION PROJECT CONTRACT
BROOKS-YOUNG MINING COMPANY
DOCKET NO. DMEA-2112

EXHIBIT "A"

Statement of the work

This project shall consist of exploratory work on the Allen Emory (Orphan Boy) vein and various vein intersections by drifting and raising. The work shall be performed in two stages with performance of the second stage contingent upon the results of the work performed under Stage I and, also, upon approval by the Government.

The proposed work is as follows:

Stage I

(a) Extend the main adit 400 feet northwesterly along the Allen Emory (Orphan Boy) vein.

(b) Explore the Aldrich vein intersection by 100 feet of drift.

(c) Explore the Allen Emory (Orphan Boy) vein by 150 feet of raise.

The location and extent of the work is shown on the attached map, but the work may be modified in location and extent upon approval of the Government as field conditions dictate.

Stage II

Extend the main adit and drifts an additional 400 feet in aggregate length to further explore the Allen Emory (Orphan Boy) vein and other vein intersections.

The location and extent of specific work under Stage II to be determined if and when it is approved by the Government.'

Estimated Costs

STAGE I

(1) Independent Contracts

None

(2) Labor and Supervision

Labor

2 Miners paid at average rate of $16 per foot of advance. Estimated 3 feet advance per day @ $16	$ 48.00 per day	
1 Trammer @ $1.50 per hour including overtime	13.00 per day	
1 Topman @ $1.50 per hour including overtime	13.00 per day	
Total labor cost per day	$ 74.00	
Total Labor cost, $74.00 X 217 days $16,080.00		

Supervision

1 Superintendent @ $450/mo. x 8 months	$ 3,600.00*	
1 Bookkeeper, part-time $40/mo. x 8 mo.	320.00*	
Total Supervision	$ 3,920.00*	
Total Cost Labor and Supervision for Stage I		$20,000.00*

(3) Operating Materials and Supplies

Explosives, dynamite fuse and caps	$ 2,900.00	
Steel and bits, including maintenance and replacements	760.00	
Rails and track accessories	1,000.00	
Air and water pipe	340.00	
Timber	1,000.00	
Fuel and lubricants	1,400.00	
Total Cost Supplies and Materials Stage I		$7,400.00*

(4) Operating Equipment

To be rented

None

To be purchased

1 Army-type weasel for transportation and snowplowing, if required	$ 1,500.00*

To be furnished by Operator

Item	Value	Monthly Depreciation
1 compressor, 265 cfm	$7,200.00	$ 120.00*
1 Jackhammer	375.00	6.25*
1 Stoper	750.00	12.50*
1 Drifter	925.00	15.25*
3 Mine cars	660.00	11.00*
1 Slusher	1,440.00	24.00*
1 3/4-ton truck	1,500.00	25.00*
Miscellaneous Equipment	780.00	13.00*
		$227.00*

Total depreciation - 9 months @ $227.00	$ 2,043.00*

(5) Rehabilitation and Repairs

None

(6) New Buildings, Improvements, Installations

Snowsheds	600.00*

(7) Miscellaneous

Assaying and engineering	600.00*

(8) Contingencies

Contingency, approximately 5% 1/	$ 1,607.00
Total estimated cost for Stage I	$33,750.00*
Government participation at 50%	$16,875.00

STAGE II

(1) Independent Contracts

None

(2) Labor and Supervision

Labor

Same classification as Stage I

$74.00 per day x 134 days (Rounded) $9,920.00

Supervision

1 Superintendent $450/mo. x 5 months	2,250.00*
1 Bookkeeper, part-time $40/mo. x 5 months	200.00*
Total Supervision	$2,450.00*

Total Cost Labor and Supervision for Stage II $12,370.00*

(3) Operating Materials and Supplies

Same items as Stage I

calculated on footage cost and applied to the 400 feet proposed for this stage 4,540.00*

(4) Operating Equipment

To be rented

None

To be purchased

None

1/ To provide for possible costs not included in the allowable maximums.

* Indicates allowable maximum under the contract.

To be furnished by Operator	
Same items as Stage I $227.00 x 5 months	$ 1,135.00*
(5) Rehabilitation and Repairs	
None	
(6) New Buildings, Improvements, Installations	
None	
(7) Miscellaneous	
Assaying and Engineering	300.00*
(8) Contingencies	
Contingency, approximately 5% 2/	905.00*
Total estimated cost for Stage II	$19,250.00
Government participation at 50%	$ 9,625.00
TOTAL ESTIMATED COST FOR STAGE I AND STAGE II	$53,000.00*
TOTAL GOVERNMENT PARTICIPATION, STAGE I AND STAGE II	$26,500.00*

2/ To provide for possible costs not included in the allowable maximums.

* Indicates allowable maximum under the contract.

224 New Customhouse
Denver 2, Colorado

October 24, 1952

Mr. Fred Brooks
P. O. Box 151
Idaho Springs, Colorado

Dear Mr. Brooks:

Will you please inform this office within the next 30 days as to what you plan regarding Contract Ida-2298 covering your application for exploration assistance, Docket DMEA 2112.

If we do not hear from you within 30 days it will be assumed that you are no longer interested in exploration assistance and your contract will be placed in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Administrator, DMEA
WMTraver
AHKoschmann (2)
Subject
Chron
Shaw

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

224 New Customhouse
Denver 2, Colorado

October 2, 1952

CONFIDENTIAL
FOR GOVERNMENT USE ONLY

Airmail
Special Delivery

Memorandum

To: W. R. Storms

From: Executive Officer, Field Team, Region IV

Subject: DMEA Information

In a telephone conversation with Mr. Mittendorf, Administrator, he informed me that when the DMEA program was set up, James Boyd made the statement to the committee that they expected a return of 1% on money invested in DMEA contracts.

The following year representatives appearing before the Committee intimated that no return would result from DMEA contracts. During the hearings this year, DMEA representatives made the statement that they expected a 10% return of money invested in DMEA contracts. The increase to 10% was the result of receipts from various mining companies which have made discoveries and shipped ore from which royalties were collected.

This information would indicate that there has been a difference of opinion in the matter of appraising deposits in connection with applications for DMEA assistance. It is possible that we have been too concerned about the return or pay-off of money advanced for this exploration work.

W. R. King

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FOR GOVERNMENT USE ONLY

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

CONFIDENTIAL
FOR GOVERNMENT USE ON

224 New Customhouse
Denver 2, Colorado

October 2, 1952

Airmail
Special Delivery

Memorandum

To: W. H. Storms

From: Executive Officer, Field Team, Region IV

Subject: DMEA Information

In a telephone conversation with Mr. Mittendorf, Administrator, he informed me that when the DMEA program was set up, James Boyd made the statement to the committee that they expected a return of 1% on money invested in DMEA contracts.

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W. E. King

CONFIDENTIAL
FOR GOVERNMENT USE ON

224 New Customhouse
Denver 2, Colorado

October 24, 1952

Mr. Fred Brooks
P. O. Box 151
Idaho Springs, Colorado

Dear Mr. Brooks:

Will you please inform this office within the next 30 days as to what you plan regarding Contract Idm-E298 covering your application for exploration assistance, Docket DMEA 2112.

If we do not hear from you within 30 days it will be assumed that you are no longer interested in exploration assistance and your contract will be placed in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Administrator, DMEA
WMTraver
AHKoschmann (2)
Subject
Chron
Shaw

224 New Customhouse
Denver 2, Colorado

September 8, 1952

Memorandum

To: Chairman, Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Docket DMEA 2112, Contract Idm-E298, Brooks-Young Mining Company (Lead-Zinc)

Mr. Brooks of the Brooks-Young Mining Company has visited this office several times relative to Contract Idm-E298. Mr. Brooks' nephew has bought out Mr. Young's interest in the company and has been attempting to buy out Mr. Schoonover. To date the arrangements have not been completed and Mr. Brooks has requested that we retain the contract in this office.

W. H. King

W. H. King

JFS:jp
cc Contract
Chron
WMTraver
AHKoschmann (2)

500

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

Mining Division
Date Rec'd
1952
BUREAU OF MINES
Denver, Colorado

AUG 29 1952

Mr. W. H. King, Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-2112 (Lead-Zinc)
Contract No. Idm-E298
Brooks-Young Mining Company
Summit County, Colorado

Dear Mr. King:

With our letter of April 18, 1952, we transmitted the original and five copies of the subject contract. Since that date we have received no correspondence from you concerning this contract.

If the contract is not to be executed, the original and five copies should be returned to this office. However, if the final signature of this contract is being delayed for some reason, known to your office, until some future date, we would appreciate it if you kept us informed as to the final disposal.

Sincerely yours,

ACTING Chairman, Operating Committee

APPROVED:

C. L. Johnson
Member, Bureau of Mines

D. M. Lemmon
Member, Geological Survey

J.F.S.

500

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

AUG 29 1952

Mr. W. H. King, Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-2112 (Lead-Zinc)
Contract No. Idm-E298
Brooks-Young Mining Company
Summit County, Colorado

Dear Mr. King:

With our letter of April 18, 1952, we transmitted the original and five copies of the subject contract. Since that date we have received no correspondence from you concerning this contract.

If the contract is not to be executed, the original and five copies should be returned to this office. However, if the final signature of this contract is being delayed for some reason, known to your office, until some future date, we would appreciate it if you kept us informed as to the final disposal.

Sincerely yours,

H Keller

ACTING Chairman, Operating Committee

APPROVED:

C. W. Johnson
Member, Bureau of Mines

D. M. Leonard
Member, Geological Survey

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

Field copy

Mr. J. H. East, Jr.
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 2112(Lead-Zinc)
Brooks-Young Mining Company

Dear Mr. East:

We are transmitting, herewith, the original and five copies of the subject contract covering the proposed exploration work on the Allen Emory (Orphan Boy) Mine. This contract incorporates the cost and proposed work recommended by your office and which has been modified as to text to conform with the new contract form.

If this contract meets with your approval, kindly present it to the applicant for approval and signature as indicated on the contract form, and distribute all copies in the usual manner. If modifications are required prior to signing by the applicant, return all copies to this office along with the proposed changes and your comment.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures-6
APPROVED:
W. H. Hedges
Member, Bureau of Mines

D.M. Lemmon
Member, Geological Survey

DEMoulds/hmj/meh/ 4-15052
CC to: Adm. Reading File
Docket File Copy
Region IV
Mr. Bishop
Mr. Moulds
Mr. McKnight

224 New Customhouse
Denver 2, Colorado

April 10, 1952

Memorandum

To: C. O. Mittendorf

From: Executive Officer, Field Team, Region IV

Subject: Docket DMA 2112, Brooks Young Mining Company (Lead-Zinc)
Box 63, Idaho Springs, Colorado

The final report prepared in connection with the field examination of the Brooks Young Mining Company property was forwarded to you with our letter of December 27, 1951. The application was for Government assistance on exploration work to cost $45,509.00. As a result of the examination, a modified exploration program estimated to cost $53,000 was recommended, and the Government's participation would be $26,500.00. It would therefore be necessary for your office to prepare the contract. Please give this matter your consideration.

J. H. East

J. H. East, Jr.

cc: Koschmann (2)
Traver
Sub
Chron

W.H.K.

WHK:bh

J.H.S.

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

REGIONAL OFFICE REGION IV MAR 31 1952 APR 18 1952 BUREAU OF MINES DENVER

Mr. J. H. East, Jr.
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 2112(Lead-Zinc)
Brooks-Young Mining Company

Dear Mr. East:

We are transmitting, herewith, the original and five copies of the subject contract covering the proposed exploration work on the Allen Emory (Orphan Boy) Mine. This contract incorporates the cost and proposed work recommended by your office and which has been modified as to text to conform with the new contract form.

If this contract meets with your approval, kindly present it to the applicant for approval and signature as indicated on the contract form, and distribute all copies in the usual manner. If modifications are required prior to signing by the applicant, ~~return all copies to this office along with the proposed changes and your comment.~~

Sincerely yours,

Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures-6
APPROVED:

J. H. Hedges
Member, Bureau of Mines

D. M. Lemmon
Member, Geological Survey

Over delegated authority

224 New Customhouse
Denver 2, Colorado

December 27, 1951

Memorandum

To: Administrator, Defense Minerals Exploration Administration, Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2112, Brooks-Young Mining Company, (Lead-Zinc), Summit County, Colorado, Box 63, Idaho Springs, Colorado

Enclosed are the original and one copy of Form 3b and a copy of a memorandum to the Secretary to the Operating Committee pertaining to the above docket.

J. W. Ewart, Jr.

A. H. Koschmann

JWT:oc
cc: DMA Subject, Chron.
AHKoschmann

DMA Form 3b.

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMA Docket No. 2112

Change: From		To	
I 1	☐	I 1	☐
I 2	☐	I 2	☐
I 3	☒	I 3	☒
I 4	☐	I 4	☐
I 5	☐	I 5	☐
I 6	☐	I 6	☐
III 1	☐	III 1	☐
III 2	☐	III 2	☐
III 3	☐	III 3	☐
III 4	☒	III 4	☒ Washington, D.M.E.A.

Add:

II 7 $ 45,509

II 8 $ 53,000

II 8a % 50

Initials of person preparing sheet J.W.T.

Date sheet prepared 12/27/51

Mining Division
Region IV

December 27, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2112, Brooks-Young Mining Co., (Lead-Zinc), Box 63, Idaho Springs, Colorado

Attached are the original and seven copies of the "Engineering Report" by the Bureau of Mines, also the original and seven copies of the "Summary, Conclusions and Recommendations" by the Geological Survey and Bureau of Mines examining team, pertaining to the above docket.

The original application was for Government assistance in exploration work estimated to cost $45,709.

The examining engineer recommends a modified program to be accomplished in four stages, at an estimated cost of $31,600. Work on the fourth stage to be entirely contingent on the success of work in the first three stages.

We concur in the recommendations for the modified program.

The brochure is also enclosed.

Paul T. Allmann

JWT:oc
cc: DMA Subject, Chron.
Koschmann

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

224 New Customhouse
Denver 2, Colorado

December 27, 1951

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, DMEA, Region IV

Subject: Final Report, DMA Docket 2112, Brooks-Young Mining Company, (Lead-Zinc), Summit County, Colorado, Box 63, Idaho Springs, Colorado

Enclosed are the original and two copies of the Final Report pertaining to the subject docket. The brochure is enclosed also.

This project was originally submitted as Code 210, but in the manner recommended for Government participation now exceeds the maximum amount authorized for processing in Region IV.

The application was for Government assistance in exploration work estimated to cost $45,509. Work proposals consisted of 850 feet of drifting along the Allen Emory vein, and 200 feet of raising.

In lieu thereof the examining team recommend a modified exploration program estimated to cost $5[illegible],000. Work would be accomplished in four stages, the fourth stage would be entirely contingent on the success of work in the first three stages.

Stage (a) Extend the lower adit 400 feet along the Allen Emory vein to prospect it and any vein intersections as field conditions indicate.

(b) Drive about 150 feet of raises, probably divided between three locations on the Allen Emory vein.

(c) Explore the Ulrich vein with 100 feet of drift if its exposure in the Allen Emory drift indicates actual or potential value.

(d) If results of the first 400 feet of drifting and raising on the Allen Emory vein are favorable, extend the lower adit another 400 feet along the Allen Emory vein.

The Allen Emory vein is a persistent structure with pinches and swells. Present reserves are estimated at 2,000 tons of measured ore and 6,000 tons of indicated, or inferred ore.

The examining team consider that the probability of finding other ore shoots by extending the lower adit along the vein, or an intersecting vein is favorable. Therefore, they recommend that the project be approved on the modified basis.

We concur in the recommendations of the examining team.

Government participation would be 50 per cent, or $26,500.

J. H. Ewing
J. H. Ewing, Jr.

A. F. Goschneann
A. F. Goschneann

JHEwing

cc: DMA Subject, Chron.
Administrator, DMEA, Attention: Code 210
cc: PEAlbaugh w/copy of final report
AHKoeshmann w/copy of final report
WMTrauer w/copy of final report

October 8, 1951

Memorandum

To: John M. Smith, Acting Chief
Administrative Management Division
Defense Minerals Administration

From: Regional Director, Region IV

Subject: Brooks-Young Mining Company application

This will acknowledge your letter dated October 1, 1951, regarding the Brooks-Young Mining Company application. It is noted that you state that the loan of $45,509 is in excess of the authority granted me.

The minerals are lead, zinc, silver, and copper, and the Government's participation will be in the amount of $22,754.50, which is within my authority to sign the contract.

My authority to sign contracts up to and including $25,000 for Government participation has not been rescinded. If for some reason the Defense Minerals Administration wishes to handle this application, we will forward you the other copies as requested. If there is not some reason for your handling this application, we will appreciate your processing the application forwarded you and return to us with the docket numbers.

J. H. East, Jr.

Copy to: C. O. Mittendorf
JHE:ftm

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 10/4/51

REFERRED TO:

1. Allsman
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: PLEASE FIND OUT ABOUT THIS APPLICATION AND DISCUSS WITH ME. BRING THE EXTRA COPIES REFERRED TO. (Letter from J. Smith, Actg. Chf., Adminis. Management Div., W. O., Re: application of Brooks-Young Mining Co.)

Check (X) before the items needing attention.

JHE
Initials of sender.

GPO 16—51162-1

allan—
Pls find
out about
this application
and discuss with
me. Bring the
copies referred to.
Thx. JHE

Isn't prop 45,509 = 50%
1/2 of 45,509 = 22,754.50
Our file is attached
here.

W.H.K.

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

October 1, 1951

REGION IV
1951

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Brooks-Young Mining Company application.

My dear Mr. East:

This will acknowledge your memorandum dated September 28, 1951, covering the trasmittal of application for exploration project aid of the Brooks-Young Mining Company.

It is noted that this application is in the amount of $45,509, which amount is in excess of the type of case under which you have delegation of authority to process in Region IV.

This application will be docketed and referred to the appropriate commodity branch. It will be appreciated if you will forward all other copies of this application to be included in the main docket.

Sincerely yours,

John M. Smith,

John M. Smith, Acting Chief
Administrative Management Division

45,509.
22,754.

WMT/dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
November 27, 1951

Mining Division
Date Rec'd.
NOV 28 1951
BUREAU OF MINES
Denver, Colorado

Mr. H. T. Young
P. O. Box 63
Idaho Springs, Colorado

RE: DMA 2112, Brooks-Young Mining Company
Summit County, Colorado

Dear Mr. Young:

Under separate cover we are forwarding by franked mail the following:

1 - Montezuma U. S. G. S. quadrangle map.
1 - Allen Emory mine tracing, dated October 10, 1950.
Scale: 1" = 50'.
1 - Photostat claim map of sec. 25, T. 5 S., R. 76 W.
1 - Aldrich lode and mill site plat - photostat. Scale: 1" = 200'.
1 - Leila lode and mill site plat - photostat. Scale: 1" = 200'.
1 - Carroll lode and mill site plat - photostat. Scale: 1" = 200'.
1 - Allen Emory lode plat - photostat. Scale: 1" = 200'.

The use of these maps in connection with the above-captioned Defense Minerals Administration docket is very much appreciated.

Very truly yours,

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

cc PTAllsman
DMA 2112
DMA Chron.

RFA New Customhouse
Denver 2, Colorado

October 15, 1951

Memorandum

To: W. M. Traver, Jr. (with brochure)

(Through Chief, Mining Division, Region IV)

A. H. Koschmann

From: DMA Field Team, Region IV

Subject: DMA Docket Z112, Brooks-Young Mining Company, Allen Henry and Aldrich, Lead-Zinc Claims, Farn Mining District, Summit County, Colorado

Enclosed herewith is application of the subject docket for an exploration loan of $45,303.80, with a review by the Coordinating Committee.

The proposed work consists of extending the present drift on the Allen Henry claim approximately 850 feet, with two 100 foot raises if approved by the Field Team.

Field examinations by the Geological Survey and the Bureau of Mines are required to determine the geological probability of discovery and the feasibility of the proposed project.

If the project is approved, please submit with the report the details for Exhibit A of the exploration project contract.

J. H. Eastman, Jr.

J. H. East, Jr.

for Ocden Jones

A. H. Koschmann

Enclosure

MDM:lf

cc: DMA docket, chrono, Koschmann,

Form 9-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 10/19/51

REFERRED TO:

1. ~~Allsman~~ PTC
2. Cost
3.
4.

Examination being made by PTC

FOR:

.....	Action	.....	Recommendation
.....	Approval	.....	Record
.....	Comment		of .....
.....	Conference	.....	Referring
.....	Consideration		to .....
.....	Filing	.....	Reply for signature of .....
.....	Instructions		
.....	Investigation	.....	Rewriting
.....	Initials	.....	Signature
.....	Mailing	.....	Suggestions
.....	Previous correspondence	.....	Your information

REMARKS: Letter from John M. Smith, Brooks Young Mining Co., re: DMA 2112, application of Brooks Young.

Check (X) before the items needing attention.

JHE
Initials of sender.

GPO 16—51162-1

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

REGIONAL DIRECTOR
OFFICE
REGION IV
OCT 18 1951
BUREAU OF MINES
DENVER, COLORADO

October 15, 1951

Mr. J. H. East, Jr.
Regional Director, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Brooks-Young Mining Company

Dear Mr. East:

This will acknowledge your memorandum dated October 8, 1951 regarding the Brooks-Young Mining Company application.

At the time this application was received the only indication of the amount of the application was $45,509. It could not be determined by this office that the government's participation would amount to an amount less than $25,000 and, therefore, you were requested to forward additional copy of the application to this office.

Under the circumstances, since you have determined that the government's participation will be less than $25,000, it is a proper case to be completed under your delegation of authority.

We forwarded on October 9, in the usual manner, for field investigation the copy of application for Brooks-Young Mining Company under an assigned docket number DMA-2112. Instead of returning the investigation to this office for completion of the exploration project contract, the application should remain in your office to be worked through to completion.

Sincerely yours,

John M. Smith

John M. Smith, Acting Chief
Administrative Management Division

pte

JME

OCT 9 1951

DMA

OCT 8 1951 Re: DMA-2112

REGIONAL DIRECTOR'S OFFICE REGION IV OCT 12 1951 BUREAU OF MINES DENVER, COLORADO

Mr. Herbert T. Young
Brooks-Young Mining Company
Box 63
Idaho Springs, Colorado

Dear Mr. Young:

Your application for an exploration loan on property in the Peru Mining District, Summit County, Colorado, has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration.

Further information is required for a complete appraisal of your proposed work and for this reason we are forwarding your application to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

JJS
TH
Wom

ELNewcomb:emp
G 10-4-51

Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

Mailed

Sept. 24, 1951

Received from Cardwell Blue Print & Supply Company
8 white photostats from Brooks-Young Mining Company

for

Defense Minerals Administration
224 New Customs House
Attn: Mr. McMillan

IF ONE LABEL ONLY IS ADDRESSED—USE THAT ONE

IF BOTH LABELS ARE ADDRESSED—**USE ABOVE LABEL ONLY AND DESTROY THE OTHER LABEL**

224, New Customhouse
Denver 2, Colorado

September 28, 1951

Memorandum

To: Defense Minerals Administration, Attention: Code 210

From: Executive Officer, DMA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate are DMA Form 3a and Form MP-103 pertaining to the following application for exploration loan:

Brooke-Young Mining Co., Allen Emery, Summit County, Colorado.

J. H. East, Jr.

J. H. East, Jr.

Enclosures

oj

cc: DMA Code 210
DMA Docket File
DMA Chronological
AHKoschmann

MA Form 3a

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Abstract

I. Check One:

1 ☐ 2 ☐ 3 ☒ 4 ☐ 5 ☐ 6 ☐

II. Fill in each item:

1. _____ 2. _____ 2a. _____

3. Brooks-Young Mining Co.

Box 63, Idaho Springs, Colorado

_____ (Code)

4. Allan Ferry

5. Country U. S. A. State Colorado County Summit

_____ (Code) _____ (Code)

6. Lead, Zinc, Copper

7. $ 45,509.00

8. $ _____ % 50

9. Est. Ann. Increase - _____ Unit of Measure - _____

10. $ _____

11. _____

III. Check one:

1 ☐ 2 ☐ 3 ☐ 4 ☒ By DMA Field Team, Region IV

Initials of person preparing sheet W.D.M.

Date sheet prepared 9/21/51

File -
210

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Amount $.....
Participation (Government %)
.....

Name and address of applicant

Brooks-Young Mining Co.
Box 63
Idaho Springs, Colorado

Date September 24, 1951

If you have already filed MF-100, give date filed ....., type of assistance requested .....,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Brooks-Young Mining Co.
(Name of company)

By Herbert T. Young
(Signature of authorized official)

September 24, 1951
(Date)

Partner
(Title)

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—64067-2

Form MF-103 Revised

1. (a) The real property involved in this exploration project consists of four lode claims—the Allan Emory, the Aldrich, the Carrol and the Leila; and one location—the Little Court.

The actual exploration work would be on two patented claims, the Allan Emory and the Aldrich.

Mining is being carried on at present on the Allan Emory claim and the objective of the proposed exploration work is to drive a tunnel on the Allan Emory vein to the end line to open up possible ore deposits not already developed by the present mining operation.

(b) Sole owners

(c) The exploration would be conducted on the Allan Emory lode claim pat. survey no. 3517 and on the Aldrich lode claim pat. survey no. 969A—Peru mining district S.E. ¼, Sec.25, T. 5s, R. 76w, Summit County, Colorado. On the Allan Emory the work would be done on the N.W. 850 ft of the claim from the present breast of the lower tunnel to the N.W. end line of the claim. The Aldrich claim is a cross claim to the Allan Emory and would only be connected with the exploration work at the junction of the two veins or claims.

(1) Both areas are the same.

(2) Sole owners.

2. (a) Lead, zinc, silver, and copper.

(b) The Allan Emory is a true fissure vein 10 to 15 feet wide carrying a mineralized streak averaging from two to three

2. (b) cont.

feet in width. The deposit is probably of hypothermal origin with supergene enrichment indicated in the case of silver and copper.

The lead and zinc ore bodies appear to be of a higher grade above the lower tunnel but do not show any certain zone or characteristic change from the surface downward. The ore streak slowly changes from high grade to low grade and from a wide streak to a narrow one in an irregular manner.

The mineralized streak might be roughly classified as tabular in shape but due to the areas of low grade it makes the bodies of commercial grade ore irregular.

The vein is dipping about 18degrees from vertical with the strike of the vein fairly regular.

The country rock is a very hard granite,either monzonite or quartz porphy, making very good walls for mining.But due to the width of the vein and the fact that only the streak of ore is removed where possible, the walls are poor in some areas and a considerable amount of timbering has to be done.

The reasons we have for expecting to find commercial ore bodies through this exploration work are as follows:

1. The part of the vein now being mined shows considerable ore of a commercial grade.

2. A cross vein on the Aldrich claim, roughly 150 ft. ahead of our present workings shows good lead, zinc, and silver

2. (b) cont.

ore on the dump of a caved-in 21 ft. shaft.

3. Two high grade cross vein streaks of ore are found in a tunnel parallel to our vein and the cross veins would intersect or junction with our vein about 500 to 700 ft. ahead of the breast of our lower tunnel.

4. Good surface lead and zinc ore is found in a tunnel on another claim that would junction about 200 ft. ahead of the present workingson the Allan Emory claim .

Form MF-103
Revised

3. (a) Proposed Work:

It is proposed to drive the lower tunnel of the Allan Emory claim on the vein, from the present breast to end line of the claim--a distance of approximately 850 ft. and to drive two 100 ft. raises if required and approved by the DMA field team.

The total cost of the exploration work would amount to $45,509. A breakdown of the total maximum estimated expenditures would be as listed below:

1.	Contract labor (drilling crew)	
	$14. per foot of drift work (850 ft.)	$11,900
	$16. per foot of timbered raise (200 ft.)	$ 3,200
2.	Supplies, materials, assaying, accounting, etc. $6.42 per ft.	$ 6,741
3.	Wages allowed owners (3 at $450. per mo.)	$16,200
4.	Depreciation allowed owners for machinery $439. per mo.	$ 5,268
5.	Snow cat or Army weasel and conversion	$ 1,500
6.	Repairs to buildings	$ 400
7.	Snow sheds	$ 300
	Total	$45,509

(b) An immediate start on the project will be made providing the exploration loan is approved in time to set up for operations this winter. The total working time for the project is twelve months, spread over a maximum period of two years. It is planned to do most of the work during the winter months of each year when bad weather and snow hinders the shipping of

Form-MF-103
Revised

3. (b) cont.

ore from our present mining operations. This would allow us to keep our regular labor force the year around and to keep the exploration work entirely separated from our mining operations now in progress.

Form NF-103
Revised

4. See inclosure no. 3.

Form MF-105
Revised

5. Existing buildings at the mine consist of a combined compressor house, dry room, work shop, and supply room; and an ore bin with a capacity of 80 tons.

An estimated cost of $400. would be necessary to convert one section of the main building into living quarters, so the crew could live at the mine during bad weather.

Form MF-103
Revised

6. It will be necessary to construct snow sheds from the portal to the dump--a distance of approximately 75 ft.--at a maximum cost of $300.

Form MP-103
Revised

7. (a) We have no rented equipment.

(b) It is planned to buy an Army weasel at an estimated cost of $1500. for winter transportation. This sum includes the cost of converting it to our needs with a small snow blade, heated cab, and other minor changes.

(c) The following list of equipment is to be furnished by us, with monthly depreciation listed:

1 Denver-Gardner compressor and buda motor	$150.	per mo
1 Ingersoll-Rand jackhammer	30.	" "
1 Denver Gardner stoper	30.	" "
1 MA 30 drill machine	40.	" "
1 Ingersoll-Rand slusher and drag	70.	" "
2 ore cars and 1 timber cart	11.	" "
1 truck--½ Army type	60.	" "
1 receiver tank, water tanks, hoses, and fittings	8.	" "
Hand tools, misc. equipment, steel, bits, pipe fittings, hardware, ect.	40.	" "
900 ft. 2 inch pipe (300 ft. in supply)	20.	" "
1200 ft. of rail (850 ft. 20 lbs., 350 ft. of 8 lb.--700 ft. supply)	20.	" "
Total depreciation	$439.	per mo

Form MF-103
Revised

8. A contract labor drill crew at $14. per ft. on a 5 by 7 ft. tunnel work and $16. a ft. on a 4 by 8 ft. raise work. This includes all drilling, mucking, and blasting with all supplies and equipment furnished.

Three owners acting as managers, supervisors, timbermen, repairmen, compressor watchmen, and general labor--maximum wages $450. per month each.

Form MF-103
Revised

9. The estimated cost of the following items is figured on the basis of cost per foot of tunnel work when ever possible.

Powder caps and fuse	$1.60 per ft.
Bits and steel	1.10 " "
Compressor gas, oil, and grease	1.20 " "
Truck and snow cat or vessel gas, oil	.60 " "
Timber for ~~irons~~ Ties, lagings, stulls, and drill planks	.15 " "
Fuel dry room	.16 " "
Accounting	.200 " "
Misc. hardware, track spikes, fish plates, bolts, nails, etc.	.20 " "
Misc. equipment repairs	.21 " "
Total	$6.48 per ft.

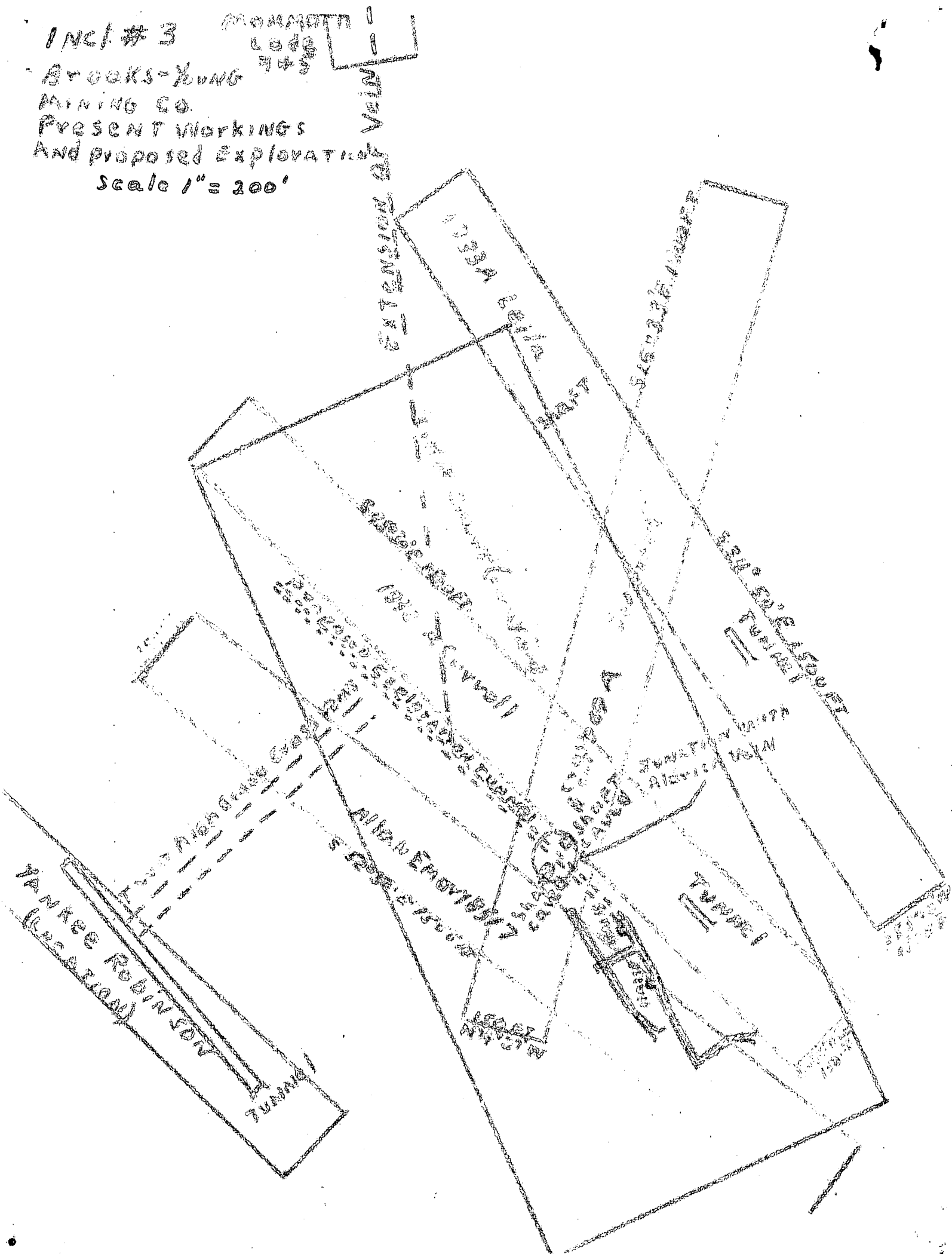
Form NW-103
Revised

10. (a) We are prepared to invest $82,753 in this project if the allowances for our labor and depreciation of our equipment are approved and will be considered part of our share. The difference between these allowances and one-half of the total cost we will pay in cash.

(b) Yes, this amount is sufficient to pay our part of the cost of the project.

INCL #3

Brooks-Young Mining Co.
Present Workings
And proposed Exploration
Scale 1" = 200'



Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

Brooks-Young Mining Co.
Box 63
Idaho Springs, Colorado

Name and address of applicant

Date September 24, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Herbert T. Young Idaho Springs, Colo.	partner	$1600.	$41,500		Not	Applicable	
Fred W. Brooks Idaho Springs, Colo.	partner	$1600	$1000		"	"	
Marian A. Schoonover Idaho Springs, Colo	partner	$1600.	$10,000		"	"	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

(Not Applicable) For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

(See inclosure no. 1)

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	lead zinc silver	none	66.9 wet short tons	359.2 w. short tons	300 wet tons
2. Quantity of product processed (specify unit of measure and type of process)	none	none	none	none	none
3. Quantity and grade of product sold or shipped (specify units of measure)	lead zinc silver	none	66.9	359.2 wet s. tons	300

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	3470	medium	$23.50	$20.00	$10.00
Indicated (probable)	6000	medium to low	$24.00	$16.50	$10.00

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Brooks-Young Mining Co. (Name of company)

By Herbert T. Young (Signature of authorized official)

September 24, 1951 (Date)

Partner (Title)

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—63792-1

Form MP--160

GENERAL TECHNICAL DATA

1. Materials produced:

   (a) Chief mine products are lead, zinc, and silver.

   (b) Byproducts are iron, gold, and copper.

2. Name and type of mine--The Brooks-Young Mining Company--Composed of four lode claims and one location. Lode claims are the Leila--pat. survey no. 1933A, the Carroll--pat. survey no. 1932A, the Aldrich--pat. survey no. 969A, and the Allan Emory--pat. survey no. 8517, also known as the Orphan Boy--survey 968A. The location is known as the Little Court.

   (a) 38 linear feet of shafts.

   (b) 135 linear feet of drifts and 68 linear feet of cross cuts.

   (c) 710 linear feet of tunnels or adits.

   (d) One inclined raise 114 feet and two vertical raises--one 65 linear feet and one 42 linear feet.

   (The above figures showing extent of workings are all on the Allan Emory Lode claim which is the only claim being worked at the present time. Workings on the other claims include three tunnels with a total linear footage of 223 feet and two small shafts completely caved in and filled up.) The mine is not flooded and while it is very wet it has not a pumping problem.

   Productive capacity at present time is from ten to twenty tons per day.

3. (a) The mine is 50 miles east of Leadville, Colorado by road. The ore is shipped by truck direct from mine to smelter or mill at Leadville.

   (b) Peru mining district

   (c) S. E. ¼ Sec. 25--T.5s--R.76w

   (d) Summit county, Colorado

4. (a) Property is now in operation and is operated by Herbert T. Young, Fred W. Brooks, and Marian A. Schoonover (DBA Brooks-Young Mining Company).

   (b) Property is owner operated.

5. Mine has been in production for two years.

6. Experience of operators:

   (a) and (b) (Applicants and managers are the same)

   Herbert T. Young--graduate geologist from the University of Illinois--Seismologist for Shell Oil Company--US Air Force Officer for six years, including work as pilot, aerial photography officer, and administrative officer--three years stationary engineer for Progressive Hotels Inc. in Chicago, Illinois--four years mining development experience.

   Marian A Schoonover--thirty-five years farming experience--ten years oil drilling and leasing--two placer mining ventures.

   Fred W. Brooks--eight years mining experience--twelve years transportation and wholesale grain business--five years Hotel owner and manager--six years traveling salesman.

7. History:

(a) The mine was located and worked between 1870 and 1895 for high-grade silver contained in the lead and zinc ore.

Development consisted of two tunnels on the same vein on the Allan Emory claim 116 vertical feet apart. The upper tunnel was driven in 265 feet cutting two ore bodies--one about 50 feet in length and the other 105 feet. Width of ore in the shoots was ten inches near the surface to 43 inches in places in the tunnel floor. The ore was stoped out in the smaller ore shoot almost to the surface--a distance of about forty feet. Two test shafts or winzes were sunk on either side of the longest ore shoot--one was 8 feet deep and the other thirty feet deep with ore showing in the bottom of both.

The lower cross cut and drift tunnel 365 feet long was meant to cut the ore shoots at a lower depth. Work was stopped as far as we know by the silver panic around 1895. The only production report we have found showed a shipment of 125 tons that ran 55% lead and 10 to 40 ozs. of silver.

The mine was inspected and reopened in the summer of 1948. In 1949 a new road was built from the Shoe basin road to the lower tunnel portal--a distance of 2½ miles.

Equipment and buildings were set up and an inclined raise driven from the lower tunnel breast up to contact the ore shoots. The raise was driven up 114 feet or about 80 feet vertically. Ore was found about 65 feet vertically above the lower tunnel level and a sub-level drift was driven onore for 70 feet.

7. History--cont.

A raise from the sub-level drift was started to break into the upper tunnel but was not completed until August 1951.

In 1950 the lower tunnel was driven in 85 feet beyond the inclined raise and a new raise driven up contacting the ore about 55 feet vertically. That production was obtained was from this stope and sub-level drift driven from the new raise.

A cross-cut was driven in 60 feet from the lower tunnel to cut a parallel vein but did not show any ore of commercial value. It does show good prospects as it is fairly well mineralized and about 20 feet wide.

Gross production for 1950 was around twelve thousand dollars with a net return after hauling and treatment charges of $8761.60. Total tonnage was 359½ short wet tons. Estimated cost of mining the ore was $10 per ton.

(b) There are several other claims in Warden Gulch near our mine, but none have been worked for thirty or forty years and we have been unable to find any history or production reports on them.

Other mines within a mile or two from us in the Shoe basin (Argentine Mining area) and on the Montezuma side of the mountain have been good lead, silver, and zinc producers but there are too many to report on.

(c) None available.

10. Production: See inclosure no. 1

11. An increase in the monthly rate of production is contemplated by the use of new equipment and a larger labor force. The estimated maximum monthly production will be from thirty to fifty tons per day.

12. (a) The Allan Emory vein is a true fissure vein from 10 to 15 feet wide carrying a streak of ore averaging about 30 inches in width. The streak varies in width and grade of ore both in depth and on the strike of the vein. Mining at present is being done on the bodies of high grade ore found in the streak. About 150 feet ahead of the present workings on the Allan Emory vein is a junction with the Aldrich lode claim vein which shows good indications of ore on the dump of the 21 foot shaft now caved in. Ore on the dump is a fairly good grade of lead, zinc, and silver ore.

Because of the width of the vein a certain amount of trouble is encountered in mining the streak. The walls, being part of the vein instead of true walls, are poor and a fair amount of timbering is necessary for safety and to keep the ore free of waste rock.

The lower grade ore areas are made up of a very hard quartz rock which is hard to break without having trouble with the walls, while the high grade areas tend to be awfully soft with considerable goudge on one side or the other. The vein in places is quite wet with well-formed water courses containing vugs and cavities.

12. (a) cont.

In places considerable copper has been encountered, usually toward the surface. Assays as high as 5% copper have been taken but the average on ore mined so far would be less than 2% copper. Areas that are ahead of our workings show more copper and it may become one of the chief minerals produced.

No work has been done below the lower tunnel level, although two winzes or shafts have been considered. Due to lack of capital nothing has been done.

The ore shipped in 1930 ran an average of 14.6% lead, 5.9% zinc, 3.02 oz. silver, and .03 oz. gold.

(b) 1. See cross-section map in inclosure no. 2.

2. (Proven ore)

Above upper tunnel--west end--average width of ore streak is 24 inches--105 feet long--30 feet high. 650 short tons.
West end below upper tunnel and above stope--30 feet high--40 feet long--24 inches average width. 240 short tons.
Below stope on west end to lower tunnel--40 feet long--20 feet deep--18 inches average width. 120 short tons.
East of incline raise and from upper tunnel down--
1200 short tons.
Between vertical raise and incline raise--40 feet long--38 feet high 280 short tons.
Total proven ore reserve 2470 short tons.
(Figuring 10 cubic feet to 1 ton of ore in all the above computations.)

12. (b) 2. (Probable ore)

Because of the way the ore varies it is extremely hard to figure the probable ore reserve. At present time we figure 6000 tons, however we have no way of knowing or even making a good guess until more development work is done.

13. Access Roads:

We are shipping 60 miles by road to smelter and concentrating mill in Leadville. About 18 miles of that distance is gravel road in good condition with 2 miles in fair condition, the rest is macadam highway.

Most supplies are obtained in Idaho Springs, Colorado, a distance of about 40 miles--30 of which is a first class road and the other ten is gravel.

It is 6 miles to Montezuma, Colorado (residence point) on gravel road.

14. Water Supply:

About one to two inch flow of water from the mine suitable for all mining needs the year around.

15. Power:

All power used is gasoline motor and costs about $1. per hour.

16. Labor:

Usual mine payroll has three hired miners with three partners working also. Machineman and assistant are usual contract

16. Labor: cont.

laborers with a general laborer on straight pay.

17. Equipment and Facilities:

Ore bin--30 tons capacity--good condition.

Compressor house--18 ft. by 24 ft.--good condition.

Gardener-Denver compressor and Duda motor--285 cu. ft. per min. excellent condition.

Dodge army type weapons carrier--excellent condition.

Three ore cars--two in good shape--one in poor.

DA 30 drill machine and accessories--excellent shape.

Jack hammer and accessories--fair shape.

Gardener-Denver stoper--good shape.

Air receiver tank--good shape.

1000 ft. of pipe (two inch) good shape.

800 ft. of twenty lb. rail --excellent shape.

400 ft. of 8 lb. rail--fair shape.

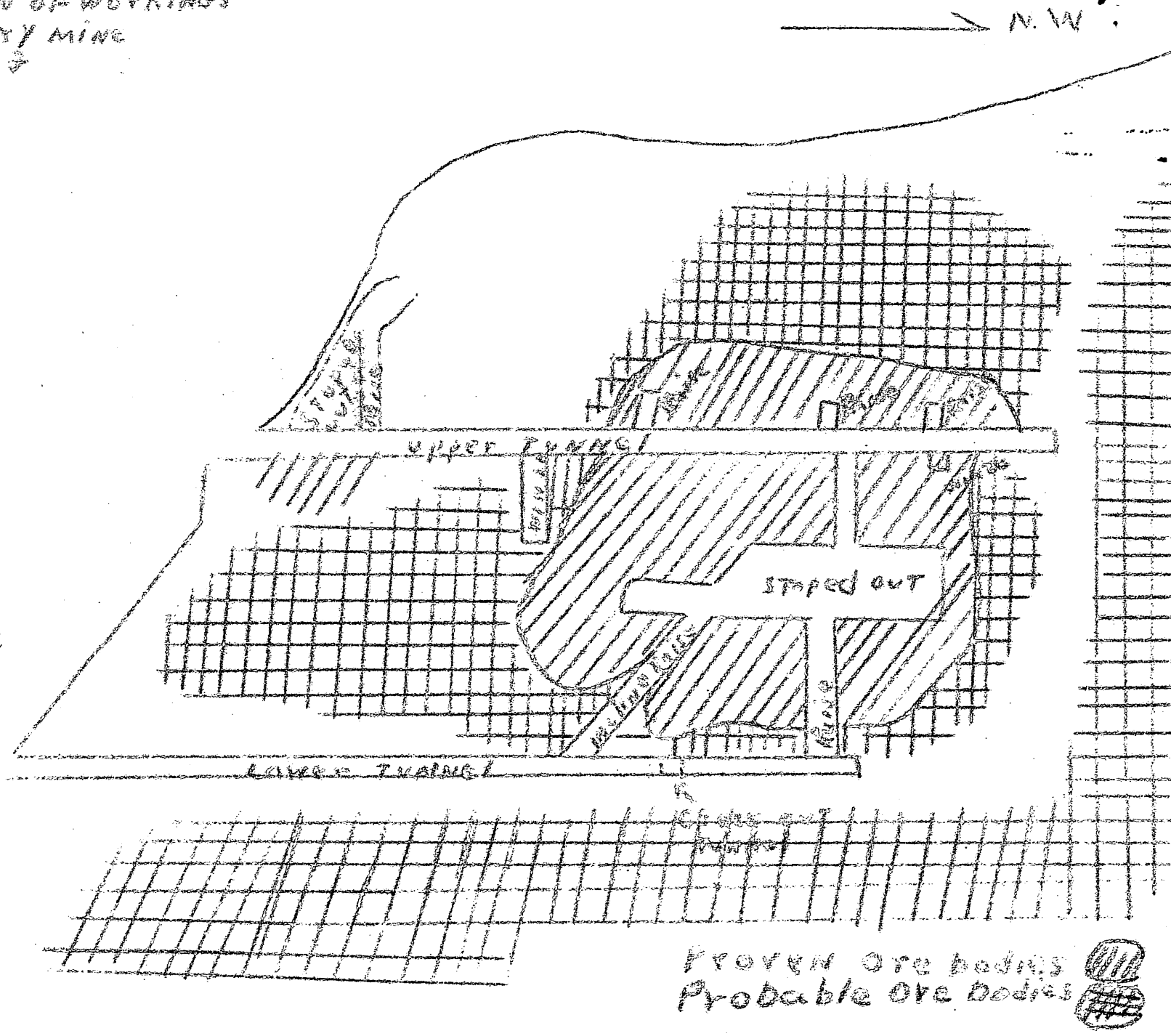
Steel, bits, tools, and other misc. equipment--good shape.

Slusher, drag, and accessories--new.

Powder house--fair shape.

Brooks-Young Mining Co.

Cross Section of workings
Allan Emory Mine
Tunnel #2



Inclosure no. 2

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Amount $.....
Participation (Government %)
.....

Name and address of applicant

Brooks-Young Mining Co.
Box 63
Idaho Springs, Colorado

Date September 24, 1951

If you have already filed MF-100, give date filed ....., type of assistance requested .....,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Brooks-Young Mining Co. (Name of company)

By Herbert T. Young (Signature of authorized official)

September 24, 1961 (Date)

Partner (Title)

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—64067-2

1. (a) The real property involved in this exploration project consists of four lode claims--the Allen Emory, the Aldrich, the Carrol and the Leila; and one location--the Little Court.

The actual exploration work would be on two patented claims, the Allen Emory and the Aldrich.

Mining is being carried on at present on the Allen Emory claim and the objective of the proposed exploration work is to drive a tunnel on the Allen Emory vein to the end line to open up possible ore deposits not already developed by the present mining operation.

(b) Sole owners

(c) The exploration would be conducted on the Allen Emory lode claim pat. survey no. 8517 and on the Aldrich lode claim pat. survey no. 9694--Peru mining district S.T. 2, Sec.23, T. 5s, R. 76w; Summit County, Colorado. On the Allen Emory the work would be done on the N.W. 800 ft of the claim from the present breast of the lower tunnel to the N.W. end line of the claim. The Aldrich claim is a cross claim to the Allen Emory and would only be connected with the exploration work at the junction of the two veins or claims.

(1) Both cross ore the same.

(2) Sole owners.

2. (a) Lead, zinc, silver, and copper.

(b) The Allen Emory is a true fissure vein 10 to 15 foot wide carrying a mineralized stream averaging from two to three

2. (D) cont.

foot in width. The deposit is probably of hydrothermal origin with supergene enrichment indicated in the case of silver and copper.

The lead and zinc ore bodies appear to be of a higher grade above the lower tunnel but do not show any certain zone or characteristic change from the surface downward. The ore streak slowly changes from high grade to low grade and from a wide streak to a narrow one in an irregular manner.

The mineralized streak might be roughly classified as tabular in shape but due to the areas of low grade it makes the bodies of commercial grade ore irregular.

The vein is dipping about 15degrees from vertical with the strike of the vein fairly regular.

The country rock is a very hard granite,either monzonite or quartz porphy, making very good walls for mining.But due to the width of the vein and the fact that only the streak of ore is removed where possible, the walls are poor in some areas and a considerable amount of timbering has to be done.

The reasons we have for expecting to find commercial ore bodies through this exploration work are as follows:

1. The part of the vein now being mined shows considerable ore of a commercial grade.

2. A cross vein on the Aldrich claim, roughly 100 ft. ahead of our present workings shows good lead, zinc, and silver

2. (b) cont.

ore on the dump of a second-in 51 ft. shaft.

3. Two high grade cross vein stringers of ore are found in a tunnel parallel to our vein and the cross veins would intersect or junction with our vein about 500 to 700 ft. ahead of the breast of our lower tunnel.

4. Good surface lead and zinc ore is found in a tunnel on another claim that would junction about 250 ft. ahead of the present workings on the Allen Perry claim .

Form MP-103
Revised

3. (a) Proposed Work:

It is proposed to drive the lower tunnel of the Allen Emory claim on the vein, from the present crosscut to end line of the claim--a distance of approximately 800 ft. and to drive two 100 ft. raises if required and approved by the BM field team.

The total cost of the exploration work would amount to $48,339. A breakdown of the total ~~contract~~ estimated expenditures would be as listed below:

1.	Contract labor (drilling crew)	
	$14. per foot of drift work (800 ft.)	$11,200
	$16. per foot of timbered raise (500 ft.)	$ 8,200
2.	Supplies, materials, assaying, accounting, etc. $6.42 per ft.	$ 5,141
3.	Wages allowed owners ($ at $400. per mo.)	$16,200
4.	Depreciation allowed owners for machinery $450. per mo.	$ 5,350
5.	Show out or Army tunnel and conversion	$ 1,500
6.	Repairs to buildings	$ 400
7.	Snow sheds	$ 300
	Total	$48,339

(b) An immediate start on the project will be made providing the exploration loan is approved in time to get up for operations this winter. The total working time for the project is twelve months, spread over a maximum period of two years. It is planned to do most of the work during the winter months of each year when bad weather and snow hinders the shipping of

Form-MP-103
Revised

3. (b) cont.

ore from our present mining operations. This would allow us to keep our regular labor force the year around and to keep the exploration work entirely separated from our mining operations now in progress.

Form MP-103
Rev1203

4. See Inclosure no. 3.

Form MP-167
Revised

5. Existing buildings at the mine consist of a combined compressor house, dry room, rock shop, and supply room; and an ore bin with a capacity of 60 tons.

An estimated cost of $400. would be necessary to convert one section of the main building into living quarters, so the crew could live at the mine during bad weather.

Form EP-105
Revised

6. It will be necessary to construct snow sheds from the portal to the dump—a distance of approximately 75 ft.—at a maximum cost of $300.

Form MP-108
Revised

7. (a) We have no rented equipment.

(b) It is planned to buy an Army vessel at an estimated cost of $1000. for water transportation. This sum includes the cost of converting it to our needs with a small crane blade, heated cab, and other minor changes.

(c) The following list of equipment is to be furnished by us, with monthly depreciation listed:

1 Denver-Gardner compressor and belt motor	$160.	per mo
1 Ingersoll-Rand jackhammer	60.	" "
1 Denver Gardner stoper	50.	" "
1 DM 20 drill machine	60.	" "
1 Ingersoll-Rand slusher and drag	70.	" "
2 ore cars and 1 timber cart	11.	" "
1 track--3 Army type	60.	" "
1 receiver tank, water tanks, hoses, and fittings	6.	" "
Hand tools, misc. equipment, steel, bits, pipe fittings, hardware, etc.	40.	" "
900 ft. 2 inch pipe (300 ft. in supply)	20.	" "
1000 ft. of rail (650 ft. 10 lbs., 350 ft. of 8 lb.--700 ft. supply)	20.	" "
Total depreciation	$600.	per mo

Form [illegible]-108
Revised

C. A contract labor drill crew at $34. per ft. on a 6 by 7 ft. tunnel cost and $16. a ft. on a 4 by 6 ft. raise cost. This includes all drilling, muckin , and blasting with all supplies and equipment furnished.

Three owners acting as managers, supervisors, blasters, repairmen, compressor watchmen, and general labor--receive wages $650. per month each.

Form [illegible]-105
Revised

9. The estimated cost of the following items is figured on the basis of cost per foot of usual work than ever possible.

Tender cars and fuel	$1.00 per ft.
Bits and steel	1.10 " "
Compressor gas, oil, and grease	1.00 " "
Track and car cut or coaal gas, oil	.05 " "
Timber for ~~trees~~ Ties, lagging, studio, and drill plants	.10 " "
Coal dry room	.10 " "
Accounting	.20 " "
Misc. hardware, track spikes, fish plates, bolts, nails, etc.	.40 " "
Misc. equipment repairs	.21 " "
Total	$6.40 per ft.

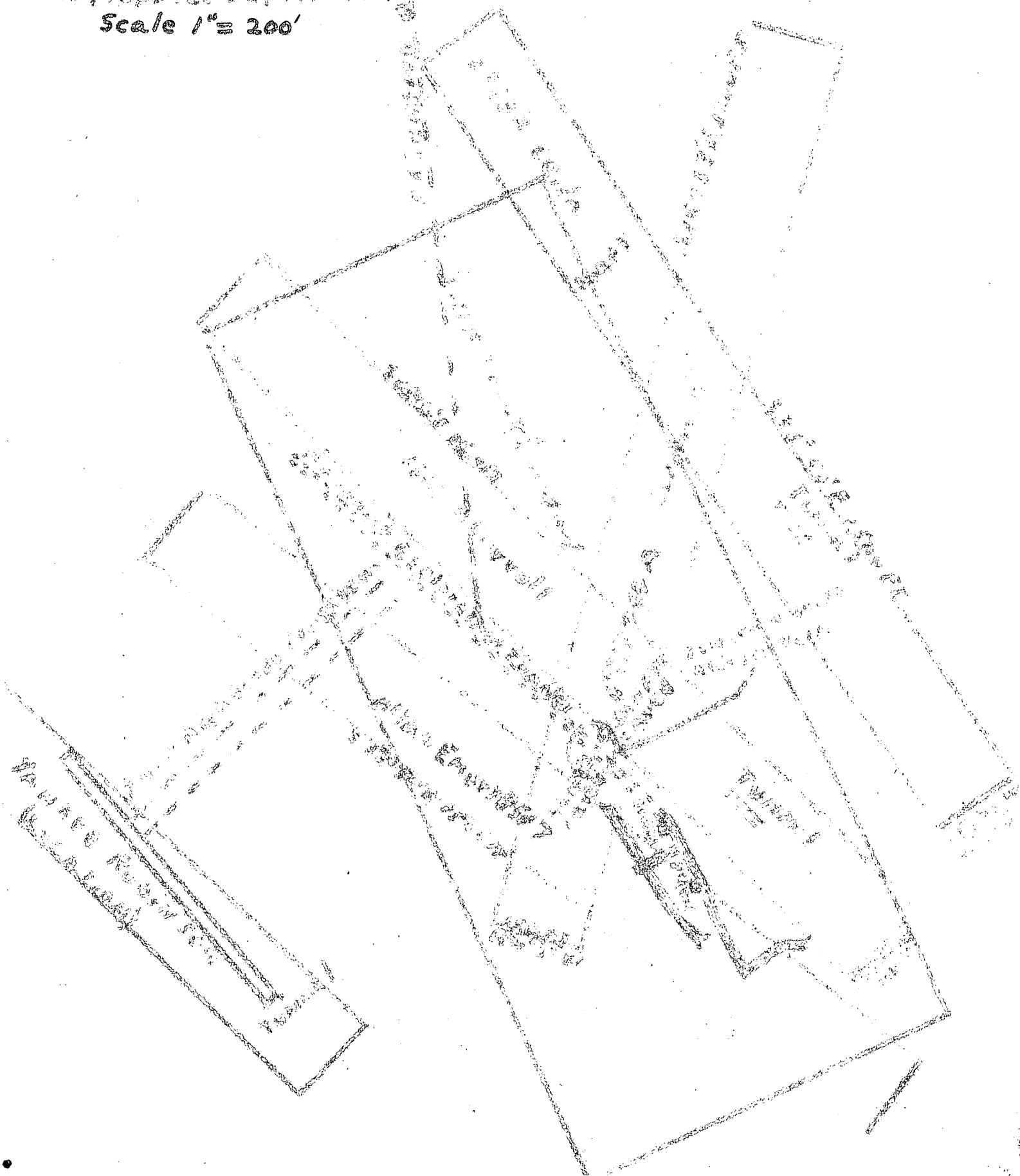
10. (a) We are prepared to invest $[illegible],765 in this project if the allowance for our labor and depreciation of our equipment are approved and will be considered part of our share. The difference between these allowances and one-half of the total cost we will pay in cash.

(b) Yes, this amount is sufficient to pay our part of the cost of the project.

Incl. # 5

Existing Plan
Showing
Present Workings
And Proposed Excavations

Scale 1" = 200'



Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

Brooks-Young Mining Co.
Box 63
Idaho Springs, Colorado

Name and address of applicant

Date September 24, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Herbert T. Young Idaho Springs, Colo.	partner	$1600.	$41,500		Not Applicable		
Fred W. Brooks Idaho Springs, Colo.	partner	$1600	$1000		"	"	
Marian A. Schoonover Idaho Springs, Colo	partner	$1600.	$10,000		"	"	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues: (Not Applicable) For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production: (See inclosure no. 1)

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	lead and silver	none	66.9 wet short tons	359.2 w.short tons	300 wet tons
2. Quantity of product processed (specify unit of measure and type of process)	none	none	none	none	none
3. Quantity and grade of product sold or shipped (specify units of measure)	lead and silver	none	66.9	359.2 wet s. tons	300

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(b) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	2470	medium	$28.50	$20.00	$10.00
Indicated (probable)	6000	medium to low	$24.00	$16.50	$10.00

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Brooks-Young Mining Co.
(Name of company)

By Herbert T. Young
(Signature of authorized official)

September 24, 1951
(Date)

Partner

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—63792-1

Form MP--100

GENERAL TECHNICAL DATA

1. Materials produced:

   (a) Chief mine products are lead, zinc, and silver.

   (b) Byproducts are iron, gold, and copper.

2. Name and type of mine--The Brooks-Young Mining Company--Composed of four lode claims and one location. Lode claims are the Leila--pat. survey no. 1053A, the Carroll--pat. survey no. 1052A, the Aldrich--pat. survey no. 960A, and the Allan Emory--pat. survey no. 8517, also known as the Orphan Boy--survey 968A. The location is known as the Little Court.

   (a) 33 linear feet of shafts.

   (b) 136 linear feet of drifts and 63 linear feet of cross cuts.

   (c) 710 linear feet of tunnels or adits.

   (d) One inclined raise 114 feet and two vertical raises--one 65 linear feet and one 42 linear feet.

   (The above figures showing extent of workings are all on the Allan Emory Lode claim which is the only claim being worked at the present time. Workings on the other claims include three tunnels with a total linear footage of 253 feet and two small shafts completely caved in and filled up.) The mine is not flooded and while it is very wet it has not a pumping problem.

   Productive capacity at present time is from ten to twenty tons per day.

3. (a) The mine is 39 miles east of Leadville, Colorado by road. The ore is shipped by truck direct from mine to smelter or mill at Leadville.

(b) Peru mining district

(c) S. E. ¼ Sec. 25--T.6s--R.76w

(d) Summit county, Colorado

4. (a) Property is now in operation and is operated by Herbert T. Young, Fred W. Brooks, and Marian A. Schoonover (DBA Brooks-Young Mining Company).

(b) Property is owner operated.

5. Mine has been in production for two years.

6. Experience of operators:

(a) and (b) (Applicants and managers are the same)

Herbert T. Young--graduate geologist from the University of Illinois--Seismologist for Shell Oil Company--US Air Force Officer for six years, including work as pilot, aerial photography officer, and administrative officer--three years stationary engineer for Progressive Hotels Inc. in Chicago, Illinois--four years mining development experience.

Marian A Schoonover--thirty-five years farming experience--ten years oil drilling and leasing--two placer mining ventures.

Fred W. Brooks--eight years mining experience--twelve years transportation and wholesale grain business--five years Hotel owner and manager--six years traveling salesman.

7. History:

(a) The mine was located and worked between 1870 and 1895 for high-grade silver contained in the lead and zinc ore.

Development consisted of two tunnels on the same vein on the Allen Henry claim 116 vertical feet apart. The upper tunnel was driven in 505 feet cutting two ore bodies--one about 60 feet in length and the other 165 feet. Width of ore in the shoots was ten inches near the surface to 43 inches in places in the tunnel floor. The ore was stoped out in the smaller ore shoot almost to the surface--a distance of about forty feet. Two test shafts or winzes were sunk on either side of the longest ore shoot--one was 8 feet deep and the other thirty feet deep with ore showing in the bottom of both.

The lower cross cut and drift tunnel 335 feet long was meant to cut the ore shoots at a lower depth. Work was stopped as far as we know by the silver panic around 1895. The only production report we have found showed a shipment of 125 tons that ran 55% lead and 10 to 40 ozs. of silver.

The mine was inspected and reopened in the summer of 1948. In 1949 a new road was built from the Ohio Basin road to the lower tunnel portal--a distance of 2½ miles.

Equipment and buildings were set up and an inclined raise driven from the lower tunnel breast up to contact the ore shoots. The raise was driven up 114 feet or about 80 feet vertically. Ore was found about 65 feet vertically above the lower tunnel level and a sub-level drift was driven onore for 70 feet.

7. History--cont.

A raise from the sub-level drift was started to break into the upper tunnel but was not completed until August 1951.

In 1950 the lower tunnel was driven in 25 feet beyond the inclined raise and a new raise driven up connecting the ore about 25 feet vertically. Most production was obtained was from this stope and sub-level drift driven from the new raise.

A cross-cut was driven in 60 feet from the lower tunnel to cut a parallel vein but did not show any ore of commercial value. It does show good prospects as it is fairly well mineralized and about 20 feet wide.

Gross production for 1950 was around twelve thousand dollars with a net return after hauling and treatment charges of $3761.60. Total tonnage was 300½ short wet tons. Estimated cost of mining the ore was $10 per ton.

(b) There are several other claims in Harden Gulch near our mine, but none have been worked for thirty or forty years and we have been unable to find any history or production reports on them.

Other mines within a mile or two from us in the Shoo Basin (Argentine Mining area) and on the Montezuma side of the mountain have been good lead, silver, and zinc producers but there are too many to report on.

(c) None available.

10. Production: See inclosure no. 1

11. An increase in the monthly rate of production is contemplated by the use of new equipment and a larger labor force. The estimated maximum monthly production will be from thirty to fifty tons per day.

12. (a) The Allen Henry vein is a true fissure vein from 10 to 15 feet wide carrying a streak of ore averaging about 30 inches in width. The streak varies in width and grade of ore both in depth and on the strike of the vein. Mining at present is being done on the bodies of high grade ore found in the streak. About 150 feet ahead of the present workings on the Allen Henry vein is a junction with the Aldrich lode claim vein which shows good indications of ore on the dump of the 21 foot shaft now caved in. Ore on the dump is a fairly good grade of lead, zinc, and silver ore.

Because of the width of the vein a certain amount of trouble is encountered in mining the streak. The walls, being part of the vein instead of true walls, are poor and a fair amount of timbering is necessary for safety and to keep the ore free of waste rock.

The lower grade ore areas are made up of a very hard quartz rock which is hard to break without having trouble with the walls, while the high grade areas tend to be awfully soft with considerable goudge on one side or the other. The vein in places is quite wet with well-formed water courses containing vugs and cavities.

12. (c) cont.

In places considerable copper has been encountered, usually toward the surface. Assays as high as 8% copper have been taken but the average on ore mined so far would be less than 2% copper. Areas that are ahead of our workings show more copper and it may become one of the chief minerals produced.

No work has been done below the lower tunnel level, although two winzes or shafts have been considered. Due to lack of capital nothing has been done.

The ore shipped in 1929 ran an average of 14.6% lead, 5.9% zinc, 3.02 oz. silver, and .03 oz. gold.

(b) 1. See cross-section map in inclosure no. 2.

2. (Proven ore)

Above upper tunnel—west end—average width of ore streak is 24 inches—155 feet long—30 feet high. 650 short tons.

East end below upper tunnel and above stope—30 feet high—40 feet long—24 inches average width. 240 short tons.

Below stope on west end to lower tunnel—40 feet long—20 feet deep—18 inches average width. 120 short tons.

East of incline raise and from upper tunnel down—

1030 short tons.

Between vertical raise and incline raise—40 feet long—35 feet high 200 short tons.

Total proven ore reserve 2470 short tons.

(Figuring 10 cubic feet to 1 ton of ore in all the above computations.)

12. (b) W. (Probable ore)

Because of the way the ore varies it is extremely hard to figure the probable ore reserve. At present time we figure 6000 tons, however we have no way of knowing or even making a good guess until more development work is done.

13. Access Roads:

We are shipping 30 miles by road to smelter and concentrating mill in Leadville. About 12 miles of that distance is gravel road in good condition with 8 miles in fair condition, the rest is mountain bigness.

Most supplies are obtained in Idaho Springs, Colorado, a distance of about 40 miles--30 of which is a first class road and the other ten is gravel.

It is 6 miles to Montezuma, Colorado (residence point) on gravel road.

14. Water Supply:

About one to two inch flow of water from the mine suitable for all mining needs the year around.

15. Power:

All power used is gasoline motor and costs about 01. per hour.

16. Labor:

Usual mine payroll has three hire' miners with three partners working also. Machineman and assistant are usual contract

16. Labor: cont.

laborers with a general laborer on straight pay.

17. Equipment and Facilities:

Ore bin--20 tons capacity--good condition.

Compressor house--16 ft. by 24 ft.--good condition.

Gardener-Denver compressor and Ings motor--285 cu. ft. per min. excellent condition.

Dodge army type weapons carrier--excellent condition.

Three ore cars--two in good shape--one in poor.

IA 30 drill machine and accessories--excellent shape.

Jack hammer and accessories--fair shape.

Gardener-Denver stoper--good shape.

Air receiver tank--good shape.

1000 ft. of pipe (two inch) good shape.

800 ft. of twenty lb. rail --excellent shape.

400 ft. of 9 lb. rail--fair shape.

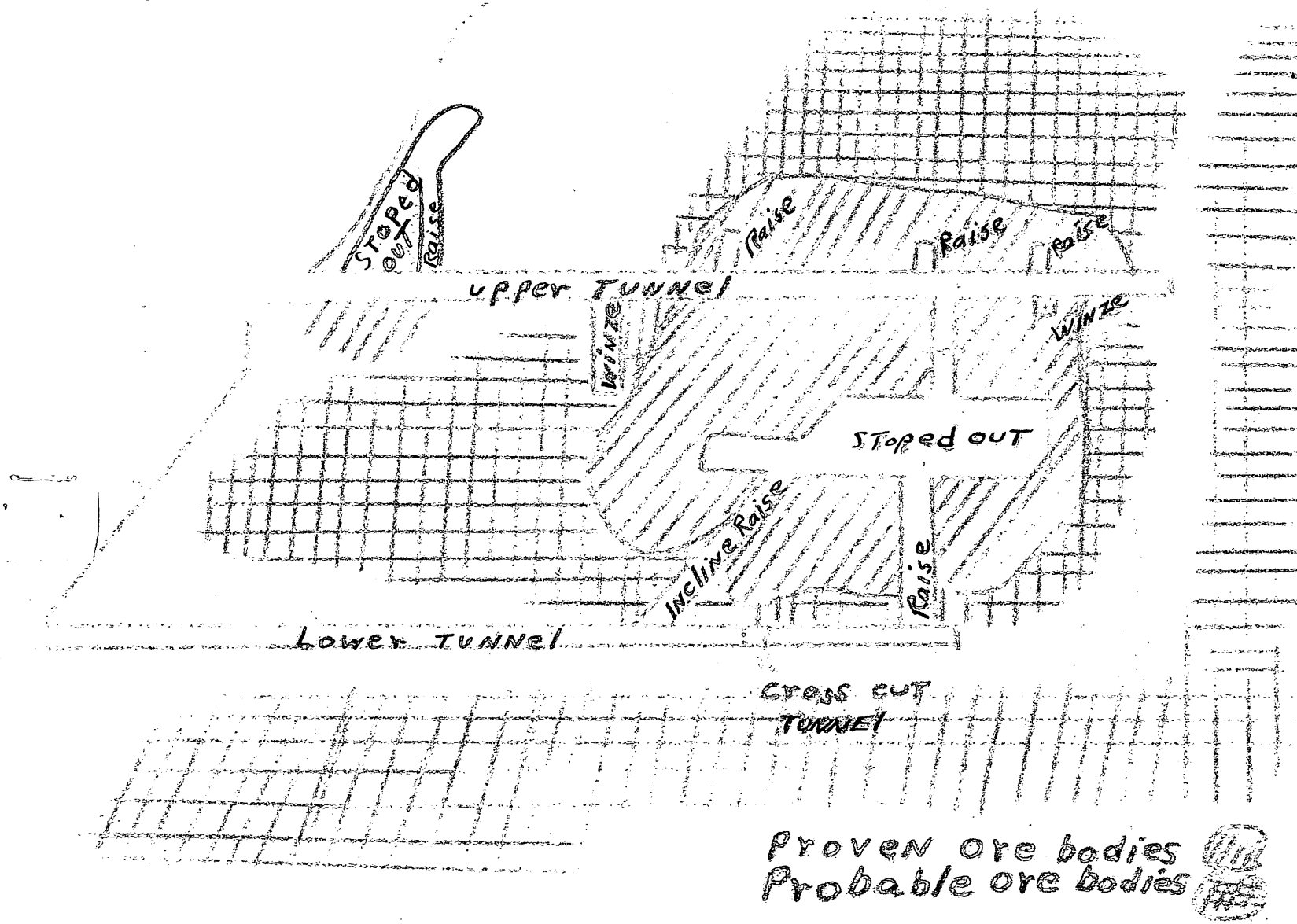
Steel, bits, tools, and other misc. equipment--good shape.

Slusher, drag, and accessories--new.

Powder house--fair shape.

Brooks-Young Mining Co.

Cross Section of Workings
Allan Emory Mine
Incl. #2



Inclosure no. 2

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

224 New Customhouse
Denver 2, Colorado

December 27, 1951

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, DMEA, Region IV

Subject: Final Report, DMA Docket 2112, Brooks-Young Mining Company, (Lead-Zinc), Summit County, Colorado, Box 63, Idaho Springs, Colorado

Enclosed are the original and two copies of the Final Report pertaining to the subject docket. The brochure is enclosed also.

This project was originally submitted as Code 210, but in the manner recommended for Government participation now exceeds the maximum amount authorized for processing in Region IV.

The application was for Government assistance in exploration work estimated to cost $45,509. Work proposals consisted of 850 feet of drifting along the Allen Emory vein, and 200 feet of raising.

In lieu thereof the examining team recommend a modified exploration program estimated to cost $53,000. Work would be accomplished in four stages, the fourth stage would be entirely contingent on the success of work in the first three stages.

Stage (a) Extend the lower adit 400 feet along the Allen Emory vein to prospect it and any vein intersections as field conditions indicate.

(b) Drive about 150 feet of raises, probably divided between three locations on the Allen Emory vein.

(c) Explore the Aldrich vein with 100 feet of drift if its exposure in the Allen Emory drift indicates actual or potential value.

(d) If results of the first 400 feet of drifting and raising on the Allen Emory vein are favorable, extend the lower adit another 400 feet along the Allen Emory vein.

The Allen Emory vein is a persistant structure with pinches and swells. Present reserves are estimated at 2,000 tons of measured ore and 6,000 tons of indicated, or inferred ore.

The examining team concludes that the probability of finding other ore shoots by extending the lower adit along the vein, or on intersecting veins is favorable. Therefore, they recommend that the project be approved on the modified basis.

We concur in the recommendations of the examining team.

Government participation would be 50 per cent, or $26,500.

J. H. Eccl, Jr.

A. H. Koschmann

J. H. Koschmann

J/Tsm

cc: PTAllsman w/copy of final report
AHKoschmann w/copy of final report
WMTraver w/copy of final report

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

December 27, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2112, Brooks-Young Mining Co., (Lead-Zinc), Box 63, Idaho Springs, Colorado

Attached are the original and seven copies of the "Engineering Report" by the Bureau of Mines, also the original and seven copies of the "Summary, Conclusions and Recommendations" by the Geological Survey and Bureau of Mines examining team, pertaining to the above docket.

The original application was for Government assistance in exploration work estimated to cost $45,509.

The examining engineer recommends a modified program to be accomplished in four stages, at an estimated cost of $53,000. Work on the fourth stage to be entirely contingent on the success of work in the first three stages.

We concur in the recommendations for the modified program.

The brochure is also enclosed.

for W. H. King
Paul T. Allsman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
December 17, 1951

Mining Division
Date Rec'd.
DEC 19 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA-2112, Brooks-Young Mining Company, Orphan Boy Mine, Summit County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations" by W. B. Meek and C. M. Harrer and the "Engineering Report" by Harrer on the above docket.

The examining team proposes a revision of the applicants' project which Harrer estimates will cost $34,000.00. The revised project comprises extending the present Allen Emory lower adit 400 feet, driving 150 feet of raises at favorable locations, and drifting 100 feet on the Aldrich vein which it is expected will be intersected within the first 150 feet of adit driving. Subsequent exploration by an additional 400 feet of adit extension, estimated to cost $19,000.00, is made contingent on the outcome of the first program. Perhaps this might better be eliminated in order to keep within the amount the Region IV Field Team is permitted to approve, and then made as an entirely new second loan later if it appears advisable.

I question if the purchase of a snow weasel at a cost of $1,500.00 is the solution of continuous winter operations in Shoe Basin. It might prove more economical to rent a tractor to keep the roads open as long as possible and condition a part of the building at the mine as living quarters for the crew during the most severe weather.

I agree with the examiners in so far as the first phase of their revised project is concerned and recommend its approval.

The brochure and review submitted by the Field Team with their instructions to make the examination are also enclosed.

for W. M. Traver Jr.
W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

November 27, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 2112, Brooks-Young Mining Company, (Lead, Zinc), Summit County, Montezuma, Colorado

Attached are 8 copies of the geologic report by Ward B. Meek covering subject docket. The Allan Emory vein, from which some ore has been produced and which is to be the chief object of exploration, is a strong and persistent vein in quartz-monzonite. Several cross-veins are believed to cut the Allan Emory vein. Fragments of high grade lead ore were found on the dumps of test pits and a shallow shaft in one, the Aldrich cross-vein, not far from where it must intersect the Allan Emory vein at the surface. Meek believes that the probability of finding ore shoots in the Allan Emory drift is encouraging, and also that the Aldrich cross-vein merits exploration. He recommends a modified four-point program, to be undertaken in consecutive stages.

I concur with his recommendation.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-2112, Brooks-Young Mining Company

Orphan Boy Mine

Summit County, Colorado

Lead-Zinc-Copper

W. B. Meek, Geologist
U. S. Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

December 17, 1951

BROOKS-YOUNG MINING COMPANY
ORPHAN BOY MINE
SUMMIT COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By W. B. Meek
Geologist
U. S. Geological Survey

and

G. M. Harrer
Mining Engineer
Bureau of Mines

BROOKS-YOUNG MINING COMPANY
ORPHAN BOY MINE
SUMMIT COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By W. B. Meek and C. M. Harrer

The Brooks-Young Mining Company has applied for a loan of $45,809.00 to explore the strike extension of the Allen-Emory (Orphan Boy) vein and several transverse veins with 850 feet of drift and 200 feet of raise.

The property is about 1½ miles east of Montezuma, in the Peru Mining District, Summit County, Colo.

The mine is at an altitude of about 12,000 feet and is inaccessible by truck at least five months of each year. The operators plan to use a "weasel" to transport workers and supplies when the road is closed by snow. In this manner exploration will be carried on throughout the winter months regardless of weather.

The mine is otherwise readily accessible to mill and smelter facilities of the Resurrection Mining Company and the American Smelting and Refining Company, at Leadville, Colo.

The Brooks-Young Mining Company produced 800 tons of mill ore during the period 1949-50-51 which averaged 0.03 ounce gold and 3.0 ounces silver per ton, and 16 percent lead, 6 percent zinc, and 0.5 percent copper.

It is estimated that the net profit per ton of ore at present prices is approximately $22.79 and it will require ore assaying better than 0.01 ounce gold and 1.0 ounces silver per ton, and 7.0 percent lead and 5.0 percent zinc for operations to break even.

Present reserves are estimated at 2,000 tons of measured ore and 6,000 tons of indicated and inferred ore. About one half of the vein material between the upper and lower adits is considered as measured ore.

The Allen Emory or Orphan Boy vein is a persistent structure with pinches and swells. The probability of finding other ore shoots by extending the lower adit along the vein is favorable.

There is a lesser possibility of finding ore in several transverse veins which the extended drift should intersect.

The original plan to extend the lower adit 850 feet along the vein is not approved. The following exploration program is proposed by the examining team:

(a) Extend the lower adit 400 feet northwesterly along the Allen Emory or Orphan Boy vein to prospect it and any vein intersections as field conditions dictate.

(b) Drive about 150 feet of raises, probably divided between three locations. The first should be at least 100 feet from the farthest known ore. One should probably follow the intersection of the Allen Emory and Aldrich veins.

(c) Explore the Aldrich vein with 100 feet of drift if its exposure in the Allen Emory drift indicates actual or potential value.

(d) If the results of the first 400 feet of drifting and the raising on the Allen Emory vein are favorable, extend the lower adit another 400 feet along the Allen Emory vein.

An exploration program combining items (a), (b), and (c) above is recommended for approval at a total cost of $34,000.00. This program can be accomplished in about nine months. Inclusion of item (d) is dependent on the success of the above program. It would cost an additional $19,000.00 and would require about five more months to complete.

BROOKS-YOUNG MINING COMPANY

(LEAD, ZINC), SUMMIT COUNTY

MONTEZUMA, COLORADO

DMA DOCKET 2112

Geology

By Ward E. Meek, Geologist
U. S. Geological Survey

BROOKS-YOUNG MINING COMPANY
MONTEZUMA, COLORADO

The Brooks-Young Mining Company has requested a loan of $45,809 with which to explore claims about 1½ miles east of Montezuma in Summit County, Colorado. This mine was formerly called the Orphan Boy, concerning which Lovering (1935, p.92) wrote briefly. The mine is located at an elevation of about 12,000 feet and is normally inaccessible by truck a large part of each year. The operators hope to be able to carry on mining activities most of the year by transporting workers and supplies in a weasel, and trucking out ore only when the roads are open.

Extent of the present workings is shown on Figure 2. Some 200 tons of ore were produced from 1875-1890. Recent production (1949-1951) resulted in the mining of 800 tons of ore, which, as shown by mill-smelter returns averaged as follows:

16 % lead	3.0 oz. silver per ton
6 % zinc	0.05 oz. gold per ton
0.5% copper	

About one-tenth of the vein material mined with the ore was sorted out and discarded as waste.

The Allen Emory vein, the only one being explored now, strikes N. 35° W. and dips 70°-77° NE. It is enclosed by quartz-monzonite which, near the vein, is altered and cut by stringers of vein material. While average width of the vein is about 2½ feet, the vein pinches to nearly nothing and swells to over 5 feet in width. In fact the vein is narrow and/or barren along most of the lower level although it is close to overlying ore.

Several transverse veins are believed to cut the Allan Emory although these intersections have not been reached in the mine. Three of them are exposed in the drift on the Yankee Robinson vein which is several hundred feet west of and higher than the Allan Emory to which it is sub-parallel. No drifting has been done on these transverse veins, but they have a general northeasterly strike and a northerly dip. Their widths vary from 6 inches to 4 feet although the economically mineralized portions are not over 1 foot wide. Neither enrichment, impoverishment, nor offsetting has occurred although the mineralization of the transverse veins cuts that of the Yankee Robinson vein.

Another transverse vein, the Aldrich, is not exposed in the Yankee Robinson tunnel, but it should be cut by the lower Allan Emory drift about 150 feet beyond the present breast. Fragments of high grade lead ore up to 6 inches wide were found on dumps from test pits and a shallow shaft in the Aldrich not far from where it must intersect the Allan Emory vein at the surface.

The ore from all of these veins is banded quartz containing galena, sphalerite, chalcopyrite, and pyrite.

ORE RESERVES

About one-half of the lower drift, or 125 feet, has developed ore above it. About one-half of the upper drift, or 120 feet, has developed ore both above and below. Raises and a stope indicate that the ore on these levels, 118 feet apart vertically, is connected. Hence the operators' estimate of 2470 tons of measured ore is reasonable. Their estimate of 6000 tons of indicated ore may be somewhat excessive.

It is probable that other good ore shoots will be found by extending the lower drift along the strike of the Allan Emory. The transverse veins appear less promising, but almost nothing is known about them.

CONCLUSIONS

The Allan Emory vein is a strong and persistent structure. Considering the small extent of the mine workings, the amount of ore developed is high (about 50% of the vein material exposed); the block between the surface and the present stope may also prove to contain ore when exploration raises are driven in it. As shown by actual smelter returns, the 300 tons of ore sold between 1949 and 1951 averaged as follows:

16 % lead	3 oz. silver per ton
6 % zinc	0.05 oz. gold per ton
0.5 % copper	

The probability of finding other ore shoots by extending the lower Allan Emory drift is encouraging.

Of the four transverse veins plotted from surface exposures and the nearby Yankee Robinson tunnel, the Aldrich vein, only some 150 feet ahead of the present breast, seems the most geologically favorable.

In spite of the encouraging results thus far obtained, it does not seem advisable to finance single phase drifting of the requested 850 feet on the lower Allan Emory level. A modified exploration program, progressing by stages, is presented for consideration.

A. Drift 400 feet on the lower Allan Emory level. This should go well beyond the transverse Aldrich vein.

B. Drive three 50 feet raises above this new drift starting at

least 100 feet beyond the present known ore. One raise should follow up the intersection of the Allan Emory and the Aldrich.

C. Drift 100 feet on the Aldrich vein if it seems promising.

D. If the results of the above work on the Allan Emory are favorable, an additional 400 feet of drifting may be considered.

According to Bureau of Mines estimates, projects A, B, and C should cost about $34,000; project D would cost about $19,000.

RECOMMENDATION

The outlook is promising for the Brooks-Young Mine to develop a moderate tonnage of ore containing up to 16% lead and 6% zinc.

It is recommended that the modified exploration program outlined above be considered for approval.

REFERENCE

Lovering, T. S., 1935, U. S. Geological Survey Prof. Paper 178, p. 92.

BROOKS-YOUNG MINING COMPANY
ORPHAN BOY MINE
SUMMIT COUNTY, COLORADO

Engineering Report

By G. M. Harrer
Mining Engineer
Bureau of Mines

BROOKS-YOUNG MINING COMPANY
ORPHAN BOY MINE
SUMMIT COUNTY, COLORADO

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BROOKS-YOUNG MINING COMPANY
ORPHAN BOY MINE
SUMMIT COUNTY, COLORADO

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

The Brooks-Young Mining Company is presently mining and shipping galena-sphalerite-chalcopyrite ore from the Allen Emery mine, formerly known as the Orphan Boy.

Herbert T. Young, one of the applicants and partner in the above company, and his two associates applied for a loan of $45,509.00 under the Defense Production Act of 1950 to explore the extensions of the Allen Emery vein and various vein intersections by drift and raises from the lower adit level of the mine.

H. T. Young was contacted by the author and W. B. Meek, of the U. S. Geological Survey, on October 30, 1951, and served as guide during the examination. Partners F. W. Brooks and M. A. Schoonover were introduced to us at the mine.

ACKNOWLEDGMENTS

Herbert T. Young, loan applicant and partner in the Brooks-Young Mining Company, conducted the examining team through all accessible mine workings and cooperated fully on all details. W. B. Meek, geologist, U. S. Geological Survey, participated in the examination. Production statistics were furnished by the Economics Division, Region IV, Bureau of Mines.

The mine is briefly discussed by T. S. Lovering in U. S. Geological Survey Professional Paper 178, on page 92, as the Orphan Boy.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Brooks-Young Mining Company property, known as the Allen Emory or Orphan Boy mine, is in the S. E. 1/4, sec. 25, T. 5 S., R. 76 W., Peru Mining District, Summit County, Colo. (fig. 1). The mine is on the east slope of Morgan Peak near the head of Warden Gulch about a mile east of Montezuma at about 12,000 feet altitude. The property is accessible to U. S. Highway 6-40 over 6 miles of good gravel road, part of which is county road 294 leading to Montezuma, and 2.2 miles of very steep and rough ore haul road. The nearest towns are Montezuma and Dillon, Colo. The property is 50 miles east of Leadville where the mills and smelters of the Resurrection Mining Company and the American Smelting and Refining Company are located. Most supplies are obtained at Idaho Springs, 40 miles distant by highway.

The topography in the immediate area is very rugged and the property is above timberline. Ample water is available for mining purposes.

HISTORY AND PRODUCTION

The Orphan Boy vein was discovered prior to 1875 and was worked intermittently from 1875 to 1890. Work was completely stopped by the silver panic of 1895. The mine was reopened by the present operators, Brooks-Young Mining Company, in 1948. Rehabilitation, exploration, and mining have been carried on continuously since. Production has totalled about 1,000 tons of shipping ore, 800 of which were produced during the period 1949-50-51 by the Brooks-Young Mining Company. Average value

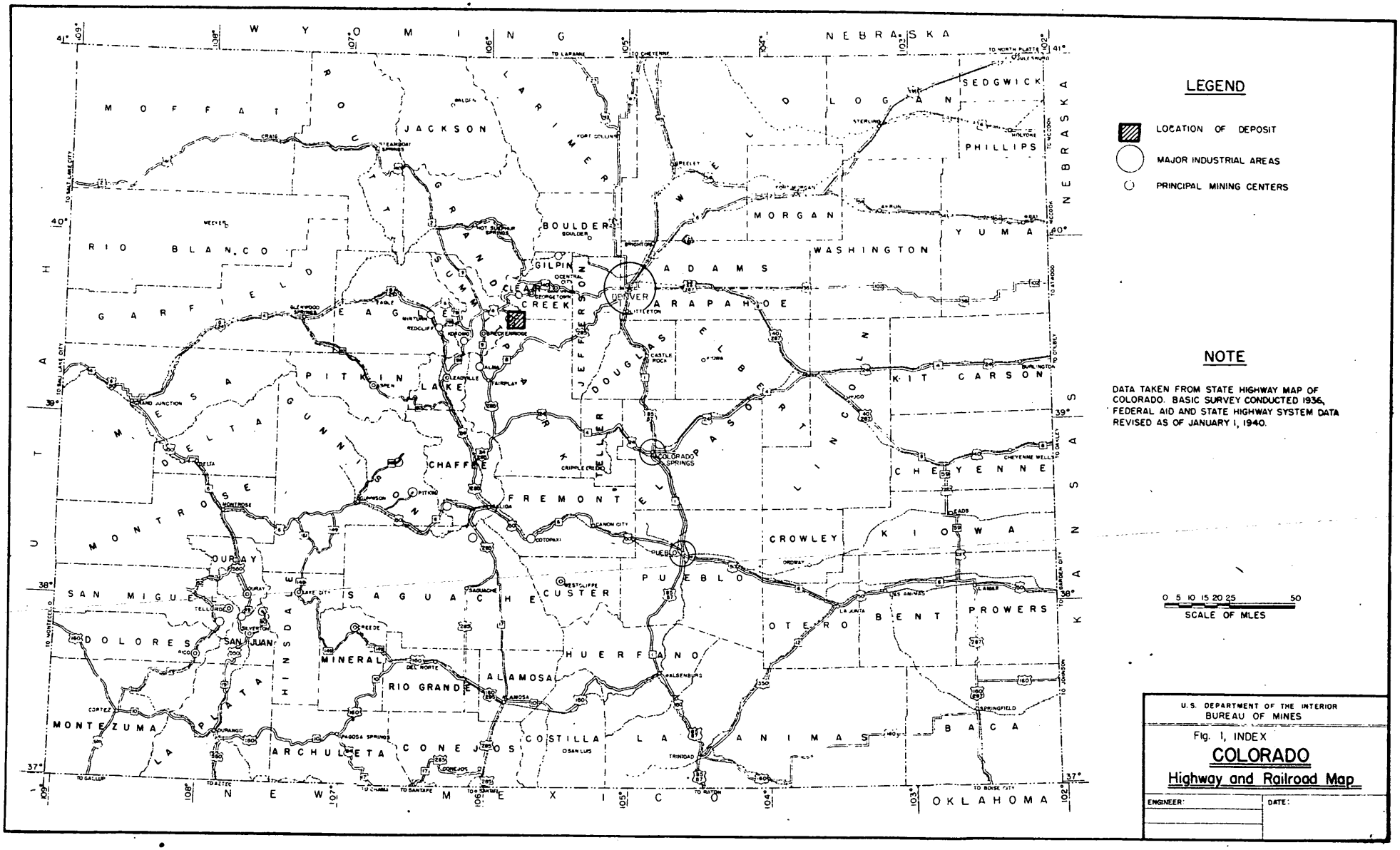


FIG.1-LOCATION MAP,ALLEN EMORY-ORPHAN BOY MINE,BROOKS-YOUNG MINING CO.,PERU MINING DIST.,SUMMIT CO.,COLO.,D.M.A.-2112

of the ore shipped during the above 3-year period was 0.03 ounce gold and 3 ounces silver per ton, 16 percent lead, 6 percent zinc, and 0.5 percent copper.

The mine is presently producing between 1 and 5 tons of ore per day which are shipped to the Resurrection Mining Company mill at Leadville.

OWNERSHIP AND EXTENT

The Brooks-Young Mining Company, of Idaho Springs, Colo., is a partnership between Herbert T. Young, Fred W. Brooks, and Marian A. Schoonover who own the following mining claims:

Name	Patent Survey No.	Acres
Leila	1933A	4.49
Carroll	1932A	4.57
Aldrich	969A	4.64
Allen Emory*	8517	5.165
Orphan Boy*	968A	---
Little Court	Unpatented	20.65
Total acres		39.515

*Overlapping and identical patents.

DESCRIPTION OF THE DEPOSITS

Ore occurs as galena-sphalerite-chalcopyrite with minor amounts of gold and silver in one known ore shoot (fig. 2 - section) which exhibits pinch and swell characteristics and no clear-cut walls between the ore and granitic country rock. The vein dips 70° to 80° to the northeast. Ore occurs within the shoot in varying concentrations of strategic metal content. The possibilities of the occurrence of a second ore shoot closer to the portal could not be investigated in the

upper level because of a cave. This was the source of about 200 tons of high-grade galena-silver ore prior to 1895. The Brooks-Young Mining Company expects to investigate this later. The main ore shoot is not exposed on the lower level, but pinches to a gouge-filled fissure just above the lower level (fig. 2 - section). The ore shoot exposes galena-sphalerite-chalcopyrite mineralization at all other faces and has been stoped in thicknesses ranging between 12 inches and 8 feet. Present stope faces expose 12 to 18 inches of mill ore, indicating that the shoot is pinching out or may be in a local thinning zone. Average thickness of the vein mined is about 30 inches. Average value of 800 tons of partly-sorted mill ore from the main ore shoot (fig. 2 - section) was 0.03 ounce gold and 3 ounces silver per ton, 16 percent lead, 6 percent zinc, and 0.5 percent copper.

The more or less absence of true walls results in irregular breakage, creating a special hazard from falling rocks. Mining is carried on in open stopes with stulls-supported platforms. Broken rock is moved to chutes by a slusher.

ORE RESERVES

An estimate of 2,000 tons of measured ore seems reasonable and checks the loan applicants' figure. Their estimate of 6,000 tons of indicated and inferred ore may be excessive. Ore reserves can be expected to average 0.03 ounce gold and 3 ounces silver per ton, 16 percent lead, 6 percent zinc, and 0.5 percent copper when carefully sorted. About one half of the upper adit has developed ore above and below it. The lower adit has developed ore above it over half its length. It is estimated that one tenth of the vein material mined is discarded as waste.

PRESENT STATUS

The Brooks-Young Mining Company is presently mining an irregular shoot of galena-sphalerite ore with minor amounts of chalcopyrite, silver, and gold (fig. 2). Ore is partially sorted and trucked to the Resurrection Mining Company mill at Leadville at the rate of 1 to 5 tons per day. Work is conducted solely to mine ore. Six men are now employed at the property as follows:

1 - Driller on contract at $100.00 per week guarantee plus a percent of the profits.

1 - Driller's helper at $12.00 per day plus overtime on Saturdays.

1 - Timberman at $14.00 per day plus overtime on Saturdays.

1 - Ore sorter (partner).

1 - Trammer (partner).

1 - Topman-compressorman, mechanic, et cetera (partner).

The surface plant consists of an 18- x 24-foot building which houses the compressor, shelters men while changing their clothes and during meals, and serves also as a workshop and supply room. An 80-ton ore bin is now in use.

Underground equipment consists of 20-pound track to the steping area with 2-inch airline in the adit and raises to the stopes. All the equipment listed for rental is owned by the Brooks-Young Mining Company partnership and is now in use.

Climatic conditions in this area will necessitate construction of snowsheds to permit winter operations.

Milling Equipment and Facilities

The Brooks-Young Mining Company is equipped to mine and ship partially-sorted mill ore to the Resurrection Mining Company custom mill, at Leadville. There are no milling or other facilities available.

PROJECT PROPOSALS, WITH COSTS

The applicants proposed to explore the Allen Emory or Orphan Boy vein and various vein intersections by 850 feet of drift and 200 feet of raise at a total cost of $45,509.00. The extension of the operating adit to the end line of the Allen Emory-Orphan Boy claim is not recommended as an exploration project.

The following alternate exploration program is proposed:

(a) Extend the main adit 400 feet northwesterly along the Allen Emory or Orphan Boy vein to prospect it and its possible intersections with the Aldrich and other veins. This part of the project should be subject to revision in extent, depending on field conditions encountered.

(b) Explore the Aldrich vein intersection with about 100 feet of drift as field conditions dictate.

(c) Explore the Allen Emory or Orphan Boy vein with about 150 feet of raise as field conditions dictate.

(d) If the above exploration program proves successful, extend the main adit and drifts an additional 400 feet to explore the Allen Emory or Orphan Boy fissure and other vein intersections.

The project will be accomplished on a single-shift basis. Advance in the drift and raises is expected to average 3 feet per day, including raise timbering. Drifting and raising will be contracted for on a labor basis.

Length of project - Units (a), (b), and (c).

Drifting, 500 feet at 3 feet per day	167 days
Raising, 150 feet at 3 feet per day	50
Length of project - working days	217 days
Length of project, working 27 days per month, allowing for delays	9 months

Supervision and labor

Item	Cost per day
1 - Superintendent at $450.00 per month, 27 working days	$16.67
Accounting, $40.00 per month, 27 days	1.49
1 - Contract drill crew - 2 men at an average of $16.00 per foot of advance in drift and raises, 650 feet total. Average advance 3 feet per day	48.00
1 - Trammer at $1.50 per hour, including overtime	13.00
1 - Topman at $1.50 per hour, including overtime	13.00
Total cost, supervision and labor, per day	$92.16

Total cost, supervision and labor, to complete the project $19,998.72

Supplies

Item	Cost	
217 cases dynamite at $11.25/case	$2,441.25	
4,400 blasting caps at $2.15/hundred	94.60	
27,000 feet of fuse at $40.00/3,000-foot roll	360.00	
150 detachable bits at $.57 each	85.50	
4 regrinds of above bits at $.12 each	72.00	
4 sets drill wheel	75.00	
36 pieces drill steel as replacements	520.00	
500 feet of track at $2.00/foot	1,000.00	
500 feet of 2-inch air line at $.60/foot	300.00	
150 feet of 1-inch water line at $.24/foot	36.00	
Stulls and planking	1,000.00	
Snowshed and building materials	600.00	
4,400 gallons of gasoline for compressor at $.18 each	792.00	
90 gallons of motor oil at $1.60/gallon	144.00	
1,200 gallons of gasoline for truck and weasel	216.00	
20 gallons of oil for truck and weasel	32.00	
1,200 gallons of heater fuel at $.17/gallon	204.00	
Total cost of supplies	$7,972.35	$7,972.35

Equipment rental

Item	Monthly rental
1 - Gardner-Denver 2-stage air compressor, with Buda Nivelo gasoline engine drive, 265 c.f.m. capacity - estimated cost $7,200.00	$120.00
1 - Ingersoll Rand-55 jackhammer - estimated cost $375.00	6.25
1 - Gardner-Denver stoper, R-91 - estimated cost $750.00	12.50
1 - DR-30, 3-inch drifter - estimated cost $925.00	15.41
2 - Mine cars and 1 - supply truck	11.00
1 - 3/4-ton Army Weapons carrier - estimated cost $1,500.00	25.00
Drilling water tanks, hoses and fittings	8.00
Hand tools, dies, etc.	5.00
1 - Ingersoll-Rand slusher and drag to be converted to drift mucking - estimated cost $1,440.00	24.00
Total rental per month	$227.16
Total rental for project - 9 months	$2,044.44

Equipment purchase

Item	Cost	
1 - Army-type weasel for snow and difficult travel to be converted for snow plowing	$1,500.00	$1,500.00
Contingencies		2,484.49
Total estimated cost of the recommended exploration program, units (a), (b), and (c).		$34,000.00

Unit (d), which is the final proposal for exploration and is dependent on the results obtained from units (a), (b), and (c), would cost an additional $19,000.00 on the same basis as above and would require 134 working days, or 5 additional months.

PRODUCTION PLAN

The Brooks-Young Mining Company proposes to mine and ship lead-zinc-copper ore to the Resurrection Mining Company mill, at Leadville, as long as possible and supplement production activities with exploration in inclement weather. Production and exploration can also be coordinated as required. Recent production has been about 1 to 5 tons of ore per day, averaging 0.03 ounce gold and 3 ounces silver per ton, 16 percent lead, 6 percent zinc, and 0.5 percent copper. On this basis the gross value of the ore at the Resurrection mill at present metal prices and treatment schedule is $40.12 per ton.

Charges are as follows:

	Per ton
Transportation and tax	$5.67
Assays	.16
Mining	8.00
Milling	3.50
Total	$17.33

Net profit per ton of ore reserve mined is estimated at $22.79.

To break even, ore must assay better than 0.01 ounce gold and 1.0 ounce silver per ton, 7.0 percent lead, and 5.0 percent zinc. Copper is not paid for.

An increase in ore reserves through exploration will encourage operations on a larger scale. Stoping will be carried on in stull-supported stopes with mechanical scraping to chutes.

PROPOSED FINANCING

The Brooks-Young Mining Company has declared its ability and agreement to participate in an exploration loan of $45,509.00 on a 50 percent participation basis.

The applicants expect to conduct the exploration program during the winter months and thereby keep the crew together when it will be impossible to ship ore. They are prepared to meet their share of any reasonable revisions to their program.

Part of their contribution will be the rental of their equipment already in service on the property. This rental on the basis of Defense Minerals Administration recommendations of new cost divided by 60 will be $227.16 a month. The partners, H. T. Young, F. W. Brooks,

and M. A. Scheonever, of Idaho Springs, Colo., will be active in the program with one acting as superintendent and the other two as necessary and competent labor.

Mining of ore presently blocked out will assist the applicants in meeting their obligations.

CONCLUSIONS

The Allen Emory vein is more commonly known as the Orphan Boy. Mining claims of the same name are identical and overlapping patents on the same vein structure.

The Allen Emory vein structure is strong and persistent with one ore shoot being mined at present.

Average analysis for ore reserves indicates a net profit of $22.79 per ton. To break even, ore must assay better than 0.01 ounce gold and 1.0 ounce silver per ton, 7.0 percent lead, and 5.0 percent zinc under present prices with shipment to the Resurrection mill, at Leadville.

The ratio of ore developed to vein material exposed is high: 50 percent.

The probability of finding additional ore shoots on the extension of the Allen Emory vein is favorable.

The Aldrich vein intersection expected some 150 feet ahead of the present lower adit breast is the most worthy companion exploration to the extension along the Allen Emory vein.

Other vein intersections from the Yankee Robinson and Mammoth claims are too vaguely defined to justify exploration from the lower

adit level unless the more prominent Aldrich vein exploration proves successful.

Units (a), (b), and (c) of the exploration program as suggested by the examining team are adequate to prove continuity or repetition of additional ore shoots.

Unit (d) of the revised program is entirely dependent on the results of the above exploration units (a), (b), and (c) and may not be activated.

Units (a), (b), and (c) of the recommended exploration program will cost $34,000.00 and require 9 months to complete.

Unit (d) of the program would cost an additional $19,000.00 and require 5 more months to complete.

The recommended exploration program should be kept flexible and subject to change as progressive field evidence dictates.

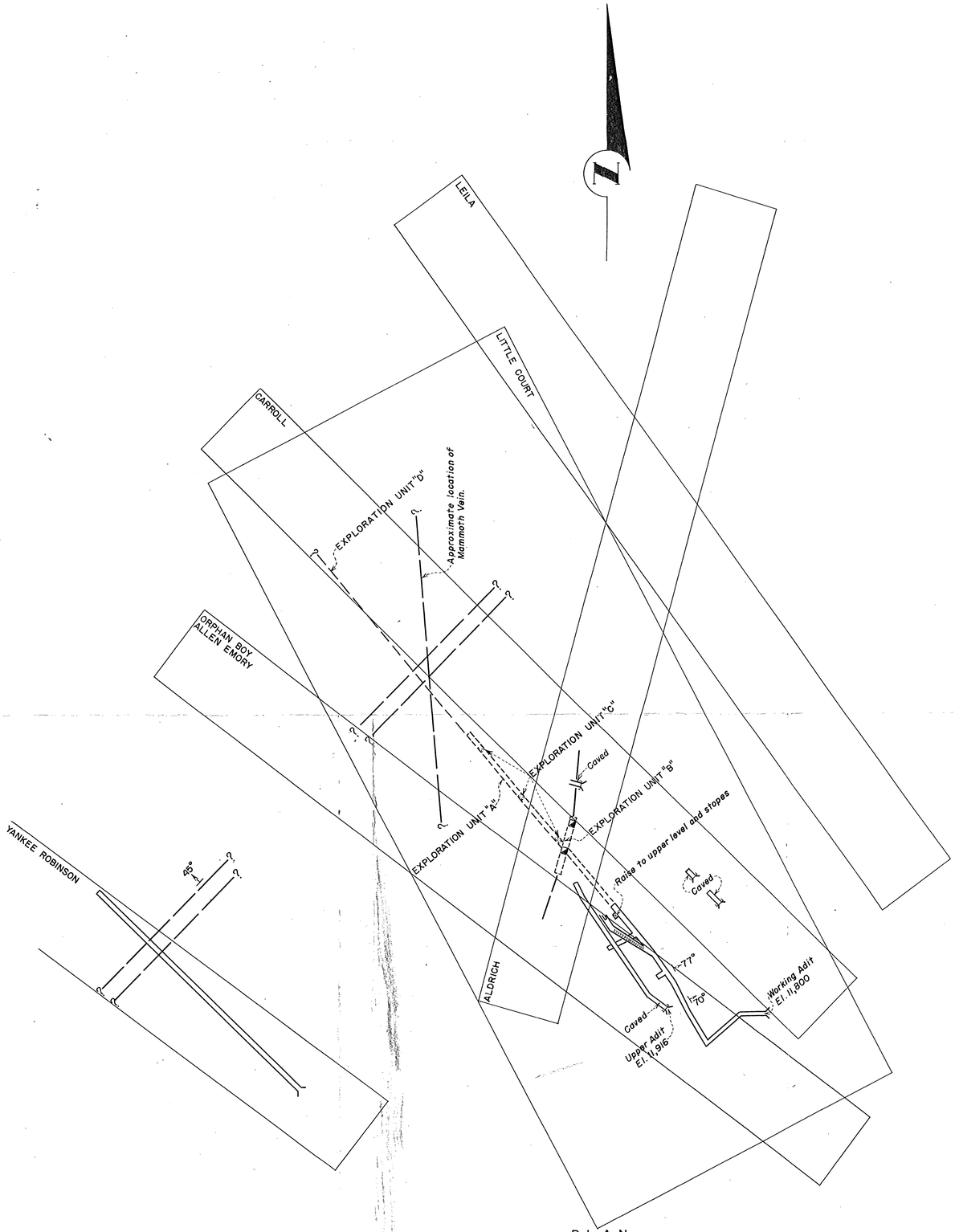
RECOMMENDATIONS

The original exploration program submitted by the applicants is not recommended for approval.

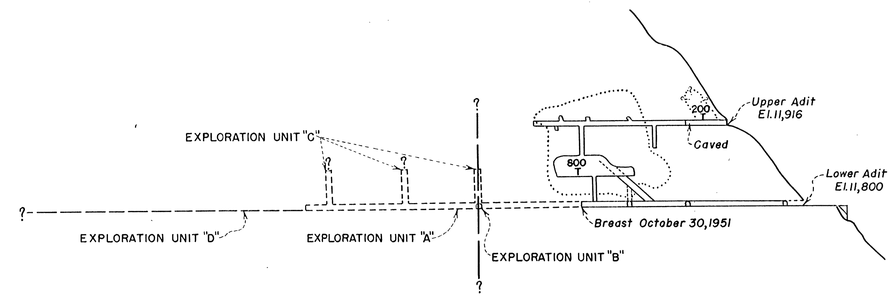
It is recommended that units (a), (b), and (c) of the revised exploration program which will consist of 500 feet of drift and 150 feet of raise from the lower Allen Emory adit, at a cost of $34,000.00, be approved. The program will be completed in about 9 months.

Unit (d) is not recommended for approval at this time.

The recommended exploration program should be kept flexible and subject to change as progressive field evidence dictates.



PLAN



SECTION THRU WORKINGS

LEGEND

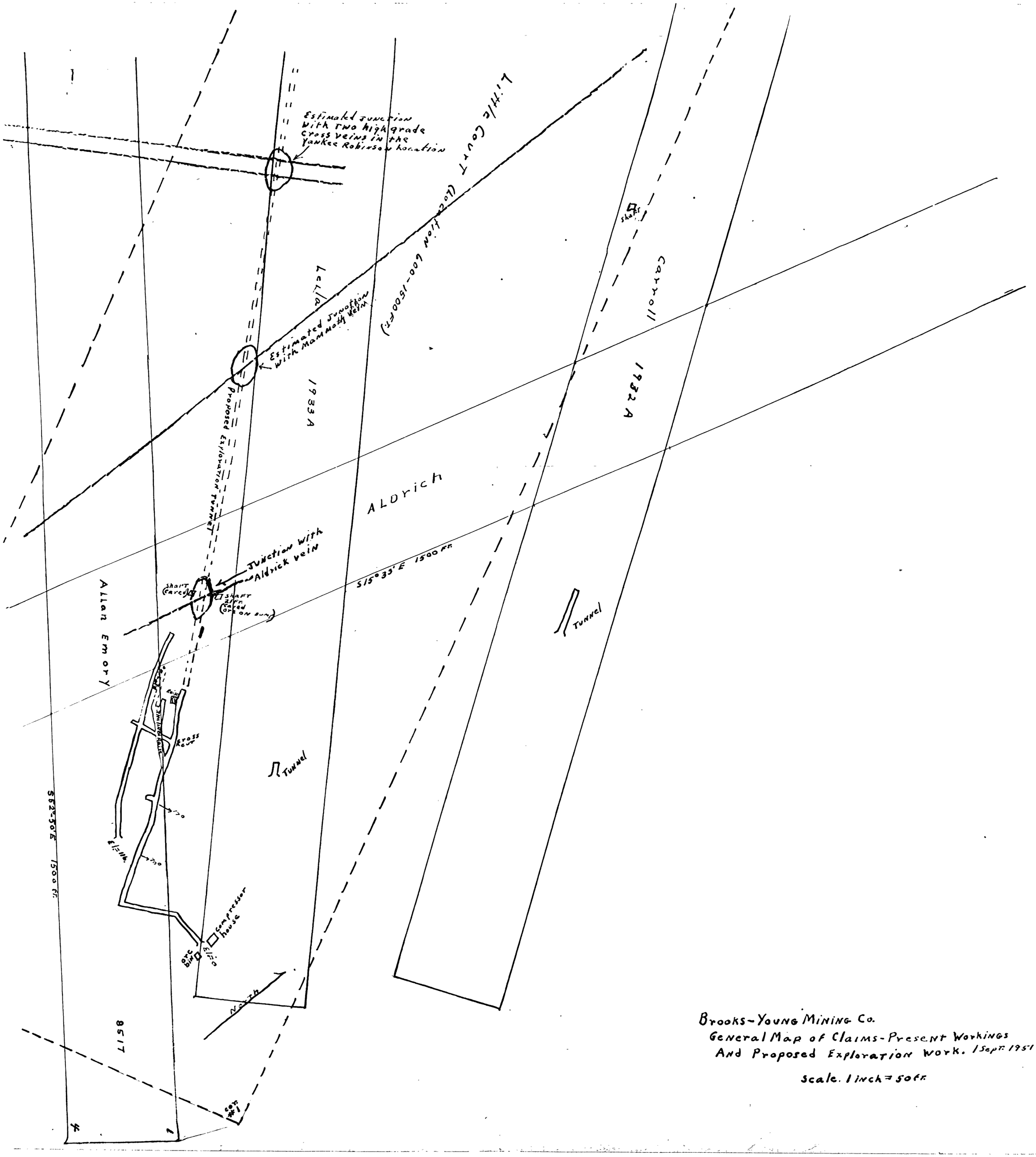
- PRESENT WORKINGS
- EXPLORATION UNITS "A" "B" "a" "C"
- EXPLORATION UNIT "D"
- INCLINE
- BOTTOM OF RAISE
- SHAFT AT SURFACE
- ORE BODY
- VEIN
- DIP OR STRIKE
- PORTAL OF TUNNEL OR ADIT

100 0 100 200 300
SCALE OF FEET

COMPILED FROM VARIOUS COMPANY MAPS

COLORADO BRANCH-MINING DIVISION-REGION IV
BUREAU OF MINES

FIG. 2-PLAN & SECTION, ALLEN EMORY-ORPHAN BOY MINE, BROOKS-YOUNG MINING CO., PERU MINING DISTRICT, SUMMIT COUNTY COLORADO, D.M.A.-2112



Brooks-Young Mining Co.
General Map of Claims-Present Workings
And Proposed Exploration Work. 1 Sept. 1951

Scale. 1 inch = 50 ft.