DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Idm-E NO. 707

DMEA NO. 3180

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [x] Cost Audits
- [x] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [x] Contract Amendments
- [x] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [x] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [x] Interim Field Team Reports
- [x] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

DEFENSE MINERALS EXPLORATION ADMINISTRATION
GENERAL ADMINISTRATION AND ARMY DIVISION

REPORT OF REVIEW

3180

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AUG - 8 1956

I have reviewed the Monthly Reports of:

Tungsten Mountain Mining Co.,
a Nevada Corporation
511 Securities Building
Seattle 1, Washington

pertaining to Exploration Project Contract No. IAn-3707, Docket No. DMEA-3180, including Amendments Nos. 1 and 2, for the months of October, November and December 1954, covering a project for the exploration of tungsten, on property, known as the Hilltop Mine, located in Churchill County, Nevada.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

All of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of units of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by the contractor	$708.00
Exceptions (schedule attached)	
By DMEA Finance Officer	132.00
Total Accepted Cost	$576.00

The contract calls for 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Four Hundred Thirty Two and 00/100 Dollars:

** $432.00 **

is considered valid and proper, provided the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

George Mavor
George Mavor
Auditor

Credit

August 6, 1956

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Schedule of Exceptions

Tungsten Mountain Mining Co.	NMRA-3180	Idm-3797
Operator claimed on MP-104 for Oct. Nov. & Dec. 1954, excavating trenches with bulldozer	59 hrs. at $12.00	$708.00
Should have claimed	48 hrs. at $12.00	576.00
Disallowed *	11 hrs. at $12.00	$132.00

*Note: Letter dated Feb. 24, 1955, from Tungsten Mountain Mining Co. to A. C. Johnson, Chief Mining Division, Reno, Nevada, stated they had made an error in billing, and the disallowance was correct.

Docket Copy

NOTICE OF TERMINATION OF EXPLORATION PROJECT CONTRACT

To: Tungsten Mountain Mining Company, a Nevada Corporation
511 Securities Building
Seattle 1, Washington

Operator under Exploration Project
Contract No. Idm-E707
Docket No. DMEA-3180
dated September 13, 1954

1. The United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereby notifies you that in its opinion you are in default under the terms of the contract and amendments thereto (herein referred to as the contract), in the following respects:

(a) You have failed to prosecute operations pursuant to the terms of the contract; and

(b) After the work was suspended pursuant to Amendment No. 2 to May 15, 1956, you failed to resume work on or before the expiration of the suspension period.

2. Upon receipt of this notice you are required, as provided in said contract, to render to the Government five (5) copies of an adequate geological and engineering report, including an estimate of ore reserves, and a final account and statement of work performed under the contract and of your expenditures of money on account thereof.

3. Any work prosecuted or costs incurred by you after the receipt of this notice shall be for your sole account, except for the cost of reporting, accounting and winding-up actions provided for in the contract.

4. All rights of the Government provided for in the contract with respect to certification of discovery or development, percentage royalty and lien for its payment, records, audits, and recovery of any overpayments are preserved.

Dated this 23rd day of July, 1956.

FROM SOLICITOR
JUL 19 1956
FOR SIGNATURE

THE UNITED STATES OF AMERICA

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

"GOVERNMENT COPY"

AMENDMENT NO. 2
EXPLORATION PROJECT CONTRACT DM-E707
Dated September 13, 1954
DOCKET NO. DMEA-3180
AMENDMENT NO. 1
Dated April 29, 1955
between
THE UNITED STATES OF AMERICA
and
TUNGSTEN MOUNTAIN MINING CO.
a Nevada corporation

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It is agreed this 20th day of February, 1956 that the Amendment No. 1 to the contract be amended as follows:

(1) Work under Amendment No. 1 shall be suspended during the period beginning December 1, 1955 and ending not later than May 15, 1956.

(2) The Government shall not contribute to any costs incurred by the Operator during the period of suspension or to any costs of rehabilitation or repair which, in its opinion, would not have occurred if there had been no suspension of the work.

(3) The Operator, at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work.

(4) The time fixed for the completion of the work is extended to September 13, 1956.

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

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
S. Ricker
Executive Officer
DMEA Field Team, Region II

TUNGSTEN MOUNTAIN MINING CO.

Bennett M. Walter
President

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AMENDMENT NO. 2

Docket No. DMEA-3180 Mineral Tungsten

Exploration Project Contract Idm-E707

Date of Contract 9/13/54

Date of Amendment Feb. 20, 1956

Operator Tungsten Mountain Mining Co.

JUSTIFICATION

Extension of time is required owing to difficulties in procuring suitable diamond drillers to perform the work. In addition, an exceptional severe winter has forced suspension of all surface operations.

S. Ricker, Executive Officer
DMEA Field Team, Region III

Government's copy

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING CO.
DOCKET NO. DMEA-3180

AMENDMENT NO. 1

It is agreed this 29th day of April, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Tungsten Mountain Mining Co., that Exploration Project Contract Idm-E707 (Docket No. DMEA-3180), dated September 13, 1954, is amended effective September 13, 1954, as follows:

1. Excluded from the land referred to in Article 2 of the contract and in Annex II is an area that lies above Fault "A," that extends upward under the present workings and to the surface, and that is bounded by lines between coordinates 9850N.-10945E., 9685N.-10945E., 9620N.-11120E. The area is shown on the map attached hereto and made a part hereof.

2. In Article 3 of the contract form, delete the period "Eight (8) Months," and substitute the period "Eighteen (18) Months."

3. Delete Exhibit "A" in entirety, and substitute the following:

EXHIBIT "A"

Stage I

Bulldoze 550 feet of trench with a TD-14 bulldozer, approximately as shown on the attached map.

Stage II

Drill 4 diamond drill holes, each between 200 and 300 feet in length, each at a dip of approximately minus 30 degrees, and each on the approximate course of S. 60° W. The holes shall be located approximately as indicated on the attached map. These holes are projected to intersect the faulted segment of the vein now being mined. The total depth of the 4 holes shall not exceed 1,000 feet.

Colorado Administration
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STAGE III

If the Government determines that the results of Stage II warrant further work, the Operator shall perform such additional work, under Stage III, as is agreed upon in writing in advance by the Operator and the Government.

The location, direction, and extent of all project work are subject to the approval of the Government.

The minimum size for all drill holes shall be AX.

Fixed Unit Costs

Stage I

Bulldozing trenches, 48 hours @ $12.00/hr.	$ 576.00	

Stage II

Diamond drilling, 1000 feet @ $6.50/ft.	6,500.00	
Stage III	25,192.00	
Estimated Total Cost of Project		$32,268.00
Government Participation @ 75%		$24,201.00

* * * * * * *

4. In Article 7 of the contract form, that part of the second sentence beginning with the word "Provided" is deleted.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total

amount which the Government may be required to contribute, nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. D. Mitchell
Administrator, Defense Minerals
Exploration Administration

TUNGSTEN MOUNTAIN MINING CO.

By Bennett W. Price, Pres.

H. L. Miller, Sect.

Defense Minerals Administration
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EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING CO.
DOCKET NO. DMEA-3180

JUSTIFICATION OF AMENDMENT NO. 1

It was known to both parties that the area excluded from Government percentage royalty payments had been opened up and was being mined prior to execution of the contract. No Defense Minerals Exploration Administration work was done within this area, the area is not benefited by any DMEA work, and the parties did not intend that production from the area should be subject to the Government's royalty.

Much of the trenching done under the DMEA project was unsuccessful, but the results did indicate the probable amount of faulting on Fault "A" and indicate further that it is advisable to explore for the faulted segment of the ore zone before entering into the more extended program of crosscutting and drifting.

MF-200 (A)
(February 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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DOCKET DMEA 3180

COMMODITY Tungsten

IDM - E - 707 Government copy

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

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 13th day of Sept., 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Tungsten Mountain Mining Co., a Nevada Corporation
511 Securities Building
Seattle 1, Washington

hereinafter called the "Operator," as ~~follows~~ set forth in Annexes I and II, attached hereto and made a part hereof, and 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 Nevada, County of Churchill, described ~~as follows~~[3] as set forth in Annex I, and shown in part on the map, Fig. 2, entitled "Map of Hilltop and Adjoining Claims" attached hereto and made a part hereof.

the Operator represents and undertakes:[4]

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: None

(*b*) ~~[illegible]~~
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 30 days from the date of this contract shall commence work on a project of exploration for[5] Tungsten

in or upon the described land; and shall bring the project to completion within a period of Eight (8) 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. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. 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 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 75 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $24,201.00, which is 75 percent of $32,268.00, 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 check or 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. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed 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 units of work performed 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.

[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*) *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 the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, 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 and statement of work performed to accompany his final report.

ARTICLE 6. *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 the 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. **See Annex II substituted for Article 6**

ARTICLE 7. *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 8. *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.

ARTICLE 9. *Changes and added provisions.* **That part of the second sentence in Article 7 beginning with the word "Provided" is deleted.**

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By [signature]
Administrator, Defense Minerals Exploration Administration

TUNGSTEN MOUNTAIN MINING CO.
(Operator)

By [signature] Pres.

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—66329-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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OCT - 1 1954

EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING CO.
DOCKET NO. DMEA-3180

EXHIBIT "A"

Description of the Work

The work is divided into two stages and is indicated in part on the map attached hereto entitled, "Figure 4, Geologic Map of the Hilltop Mine, Churchill County, Nevada" and on the attached map "Figure 2."

All drifts and crosscuts shall be timbered as necessary and shall be not less than 4 feet by 6 feet in cross section in the clear of timber.

Each sample taken concurrently with the advance in mineralized ground, as required by the contract, shall be divided into at least two parts, one of which shall be furnished to the Government.

The location, direction, and extent of all work are subject to the approval of the Government.

The work is as follows:

STAGE I

Time Schedule: 0 - 15 days (1/2 month)

1. Excavate the following with D-8 bulldozer or equivalent:

(a) One or more trenches not more than 450 feet east of Adit No. 2 to locate the favorable limestone bed.

(b) One trench along the strike of the bed to explore for scheelite-bearing tactite ore bodies within the bed.

STAGE II

Time Schedule: ½ month - 8 months

Stage II shall be undertaken only if approved by the Government in advance, dependent upon the results of Stage I.

1. Drive an adit 850 feet northwest along the most favorable limestone bed exposed by the trenching performed under Stage I.

2. From the adit, crosscut north and south at places approved by the Government not to exceed an aggregate of 200 feet of crosscut.

ESTIMATED COSTS OF PROJECT

Agreed Unit Costs

STAGE I

1. Excavating trenches with D-8 bulldozer or equivalent - 64 hrs. @ $12.00/hr.	$768.00	
Total Stage I	$768.00	

STAGE II

1. Driving Adit 850 feet @ $30.00/ft.	$25,500.00	
2. Crosscutting from Adit 200 feet @ $30.00/ft.	6,000.00	
Total Stage II	$31,500.00	
AGREED ESTIMATED TOTAL COST OF PROJECT		$32,268.00
GOVERNMENT PARTICIPATION @ 75%		$24,201.00

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING CO.
DOCKET NO. DMEA-3180

ANNEX I

The land referred to in Article 2 of the contract is owned by the operator, as follows:

	File	Recording Date	Book	Page
Porter No. 1	-	Oct. 13, 1953	27	67
Porter No. 2	78648	Oct. 13, 1953	27	67
Porter No. 3	78649	Oct. 13, 1953	27	68
Porter No. 4	78650	Oct. 13, 1953	27	68
Porter No. 5	78651	Oct. 13, 1953	27	69
Hedi No. 5	80290	July 21, 1954	27	223
Hedi No. 6	80291	July 21, 1954	27	223
Hilltop Claim	-	June 25, 1953	27	593

Located in Clan Alpine Mining District, Churchill County, Nevada. Recorded in Fallon, Nevada, County Seat of Churchill County.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING CO.
DOCKET NO. DMEA-3180

ANNEX II

The following provisions are in lieu of Article 6:

Repayment by Operator.--a. Certification.--If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Royalty on production.--The Operator, as principal, if the Operator is the producer, or as surety, if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land,* as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

c. Basis for computation.--The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f.o.b. point); except, that charges of the buyer arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by the buyer, sampling and assaying to determine the value of the production sold, and freight paid by the buyer to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the

* The "land" refers to the land described in Article 2 of the Contract form.

Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the raw ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

d. Unsold production.--If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

e. Percentages of royalty.--The percentages of the Government's royalty shall be as follows:

> One and one-half ($1\frac{1}{2}$) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.
>
> (For instance: the royalty on an amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) percent; on an amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) percent.)

f. Lien for payment.--To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

g. Notice to purchasers.--The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

h. No obligation to produce.--Nothing in this contract is 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.

i. Government not obligated to buy.--Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

58694

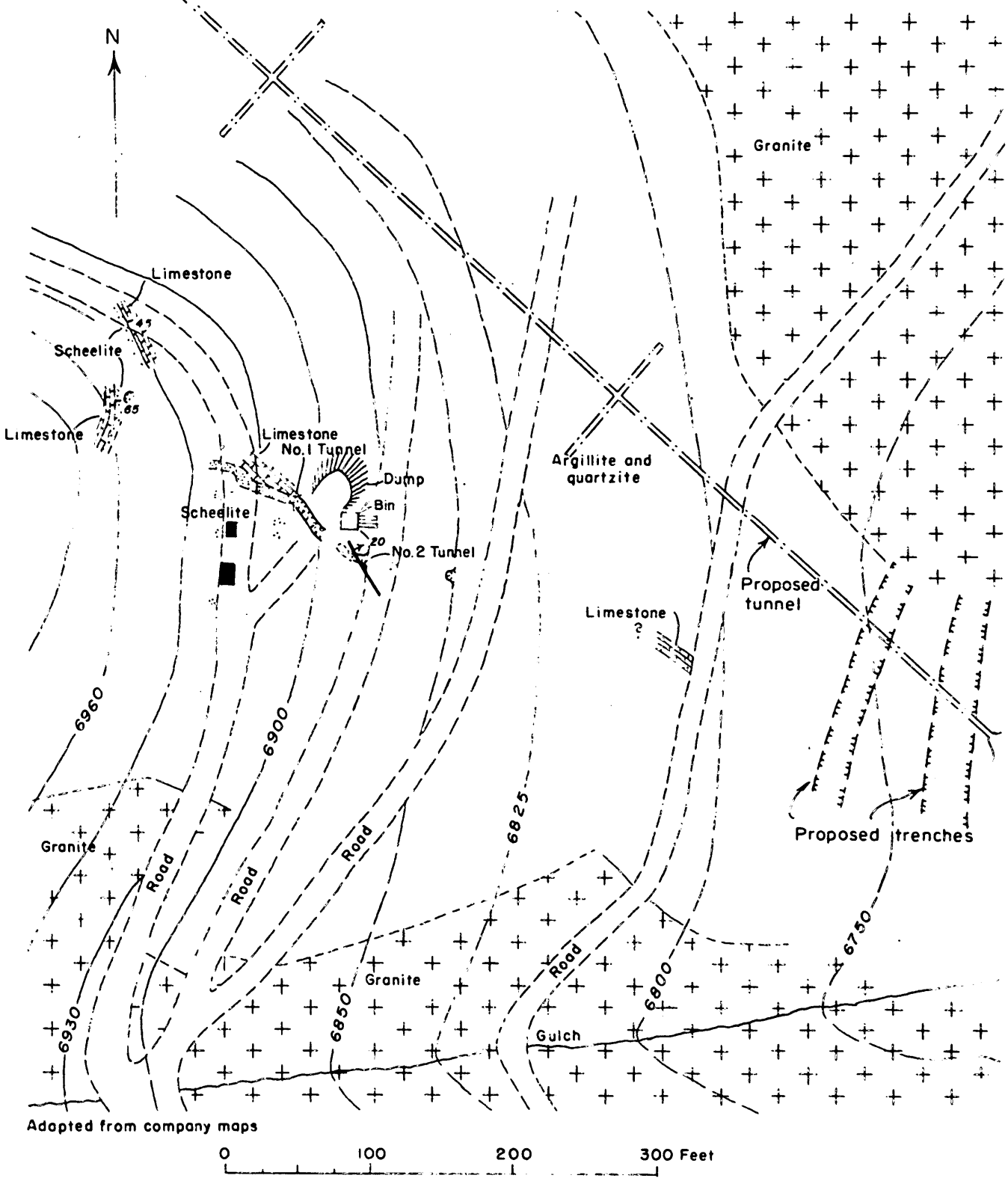


FIGURE 4. GEOLOGIC MAP OF THE HILLTOP MINE, CHURCHILL COUNTY, NEVADA

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

AMMENDED APPLICATION Docket DMEA-3180, Tungsten, Bennett W. Porter Hilltop Mine, Churchill County, Nevada

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-3180
Metal or Mineral Tungsten
Date Received Amended application
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Mr. Porter assigned to Tungsten Mountain M. Co. incorporated December 2, 1953, Carson City Nevada. Address Box 456, Fallon, Nev. & Head office 511 Securities Bldg. Seattle 1, Washington.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Hilltop mining claim recorded June 25, 53 in Book 27 of Mines, page 593. Porter No. 1 claim recorded Oct. 13, 1953 in Book 27 of Mines page 67, Churchill county Nevada. (Hedi #5 & Hedi #6 located cover east extension, not yet recorded)

(*b*) State any mine name by which the property is known. Tungsten Mountain Mine.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See (a)

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore TUNGSTEN

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See attached

(*c*) The work will start within 7 days and be completed within 8 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. Same as Docket 3180

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

☒ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Fallon, Nevada, April 21, 1954

Tungsten Mountain Mining Co.
(Applicant)

By Arthur Lakes
(Arthur Lakes)
Regional representative & geologist

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

PHYSICAL DESCRIPTION Refer to enclosed Maps #1 & #2

(a) Present prospect workings comprise four surface exposures and two small tunnels dug by Tungsten Mtn. M. Co. since Dec. 23, 1953 plus five shallow cuts dug prior to that date and viewed by DMEA field crew October 14, 1953.

(1) Open cut at sta 45 shows from 1-ft. to 3-ft. good WO3 striking N 32° W with 65 °SE dip along limestone band contacting hard argillite.

(2) Open cuts at sta. 65 (Discovery) show 1-ft. to 3-ft. good WO3 along small limestone striking NE & N acutely across larger limestone at sta. 45. Also small cut shows 3-ft. WO3 along a N 70° W fissure zone crossing course of strata.

(3) No. 1 Tunnel at sta. 68 starts as open cut 25-ft. long along 3 to 5-feet very good WO3 at about N 45 °W with 65° dip NE nearly parallel with enclosing limy rocks. Thence the shallow tunnel courses 38-feet @ N 70° W along average 5-ft. very good WO3 formed along cross fractures or shearage cutting formation at acute angles and dipping steeply SW (opposite to general NE dip of formation). Considerable WO3 in each wall but loose ground compelled timbering roof and sides hence extent this outside ore not yet determined. Thence tunnel follows N 50 W in 5 to 6-ft. very good WO3 dipping 65-70 to NE, and thence tunnel turns N 75 W along 5 to 6-ft. good WO3 to present face 14-feet ahead (April 20, 1954). Present face is 30-vertical feet below ground surface but interim is mostly loose rock with gravel and ore above tunnel mostly in large boulders. The floor along entire distance is firmer and No. 2 tunnel should stand better without timber.

Since December 23, 1953 this prospect work has provided 235-tons of WO3 ore varying from 1.68% to 3.74% as noted below.

(4) No. 2 Tunnel recently started in good WO3 is 30-vertical feet below (floor to floor) No. 1 and 60-feet further SE along "vein"course. Purpose to get quick production from downward continuation of good ore values and widths below No. 1 tunnel and to prospect walls for ore therein at No. 1 tunnel.

(5) At (X) is from 2 to 3-feet of oxidized vein in limy rocks showing WO3 70-vertical feet below and 130-feet SE from portal of No. 1 tunnel.

(6) Other exposures comprise the shallow cuts viewed by DMEA field crew.

The enclosed maps show that the important WO3 showings opened by Tungsten Mtn. Co. extend in different direction and locality than the first exposures viewed by DMEA field group when none of the important showings except an opening at upper road had been exposed to surface.

Thus WO3 showings and indications extend about 300-horizontal feet by 100-vertical feet from most NW exposure at sta. 45 to (X)m the central 100-feet length showing an average 5-feet width of 3% WO3 or better.

All workings are accessible for examination though roof and sides of No. 1 tunnel are timbered in. The work was initiated by, and carried through to date by Tungsten Mountain M. Co. registered in Nevada, Dec 2, 53.

(b) Production from No. 1 Prospect Tunnel ore:

42-tons averaging 3.74% WO_3, lamed as loaded into car
59-tons " 1.68% WO_3 loaded without lamping by mucking mach.
104-tons currently at Vanadium Cpn. Bishop, Calif. results not yet received.
10-tons for two small mill tests, coarse (quartz-limestone) ore assaying 2.56% WO_3 and oxidized fines 1.63% WO_3

All work being yet in prospective stages there is no developed ore tonnage. If depth extensions show widths and comparable values with those found along No. 1 tunnel and cut it is indicated there should be about 30-tons of ore per 1-foot depth for each 100-feet length.

(c) Geologic features Refer to Maps #1 & #2.

The area comprises a series of thin to massive argillites and quartzites with narrow interbeds of limestone and altered lime rock coursing NW with NE dip. The sedimenatery rocks have been invaded by a granitic stock measuring about 1-mile E-W by about 3/4-mile N-S as sketched on Map No. 1. The areas to N-S-E-W are covered by rhyolite and andesite.

The invading granite truncates SW extension of older sedimentaries in east and southeast part of Hilltop claim thereby forming a sedimentary "bay" cupped N-E & S by granite. The SE contact has not yet been disclosed and its position and condition re ore possibility are objectives of the proposed work under DMEA loan.

Extending NW away from the granite in central part of the "bay" are beds of limy rock bordered each side by argillite. All ore, so far disclosed, is associated with the limy beds.

The N 50° W rocks dipping 60-65° to NE are locally intersected by a zone of fracturing or "shearage" cutting the rocks acutely at N 70-80° W with dips 75-90° to SW in opposite dip direction to the NE strata dips.

The ore, so far disclosed, forms along both fractures and along the bedding between fractures thus might be described as a "vein" branching NW off from the granitic intrusion. Whether the limy rocks at, and near, granite contact will provide ore along contact course remains to be determined and is an objective of proposed work under DMEA loan. Granite float lamping strongly WO_3 has been found but its locality and position in situ has not been determined.

Objectives of exploration:

(1) To determine lateral and depth extension of ore showing already established at this company's expense. Depth of overburden to be removed and financing the more extensive program are beyond present financial position of this small company but, in view of the very encouraging results to date it is considered that this project affords greater assurance than majority of prospects that have received government assistance and lend this project to the objectives of DMEA loan program.

(2) The prospect road built by this group, to reach locality of original prospect showings and permit exploration to determine whether economic encouragement might be established, is inadequate for transportation of considerable quantities of ore to the company's lower bin near County Highway. One objective of the work under DMEA loan is to build a more adequate road about 12,000 to 13,000 feet long down better grade (average 10%). Subject to further examination and survey it is estimated that this road should cost between $5,000 and $7,000, mostly graded out by use of D8 Bulldozer with angle blade procurable at $12 per hour for machine and driver, the part requiring blasting by use of 115-cu. ft. per min. portable compressor rented @ $100 per month and jackhammer equipment owned by Tungsten Mountain Co.

not - not required for exploration

(d) The showings are about 6950-feet altitude on Hilltop (Tungsten) Mtn. of Clan Alpine Range, about 2400-feet higher than the broad Edwards Crk. valley separating Clan Alpine range from Destoya Range in eastern Churchill County, Nevada.

Workings are 95.4-miles from chief supply center at Fallon, Nev. Access routes are divided as follows: (1) Fallon to Eastgate 59.5-miles over Highway 50, thence (2) north over good county road 26.5-miles to camp in the valley, thence (3) over good side road to lower bin at mouth of canyon 4.4-miles, thence (4) up canyon over good mountain road @ 8% grade 2.5-miles to take off of Prospect road which extends 2.5-miles to workings.

It is 229-miles over good roads and highways from lower bin to Vanadium Cpn. mill at Bishop, Calif. to which Tungsten Mtn. is presently shipping.

The 5-miles haul from mine bin to lower bin cost $4 per ton and from lower bin to Vanadium mill $11 per ton.

(e) Manpower is plentiful in vicinity of Fallon. All materials and supplies and most equipment is gotten at Fallon or at Reno which is 63-miles west of Fallon over Highways 50-40.

There is no water at mine workings, requiring haul for drill water. Camp in valley is adequately supplied by four artesian wells averaging a reported 90-feet depth. Water for mining purposes is hauled from here. The valley has responded exceptionally well in supplying water from wells reported about 100-feet deep and it is believed that Tungsten Mtn. Co. can procure water by drilling near the lower bin, if and when a mill is warranted. Power is by gaoline engine for 315-cu. ft. per min. compressor, deisel for camp electric plant and bulldozer.

5. <u>Exploration project</u> Refer to Maps #1 & #2.

(a) The mineral for which it is wished to explore is <u>Tungsten</u>

(b) <u>Plan of exploration:</u> To bulldoze deeply through overburden into in situ rock to expose and trace out (a) the ore-favorable limestone and extensions of tungsten possibilities along t them down to the granite contact, (b) to fully expose and trace out the

granite contact in vicinity of the qoutheastern extension of the ore-favorable limy rocks as indicated on Map #2 . (2) To start and drive a deep level tunnel just inside the granite and extend into and along the ore-favorable limy rocks and their possible tungsten showings and (a) explore the contact area across "vein" course. Frequent crosscuts from the tunnel to determine any additional ore streaks and full width of ore exposed. The location of the tunnel portal cannot be determined accurately until objectives of bulldoze prospecting have been determined. This tunnel will extend approximately 850-feet in NW direction to reach under NW end of present showings and should be continued an an additional 150 to 200-feet past them if showings continue. At least three crosscuts north and south of the main tunnel should be driven which with other exploratory work indicated by conditions found would possibly aggregate 500-feet. The following estimates are based upon total of 1300-feet of work.

Diamond drilling from surface is out because (a) the deep overburden includes many boulders and (b) the cost of supplying water by hauling from the valley. It is our considered opinion that the tunnel exploration is by far most certain and cheapest.

Estimate of Costs

(a) Independent contractors, None.

(b) Labor	Per month	Totals
4-miners, 25-days per month @$17 per day	$1700	
" 4-days overtime	136	
1-working foreman	500	
1-truck driver & outside man	459	$2795.00
Boardinhouse loss @ $1.50 per man per day		225.00
Total labor		$3,020.00
Supervision, engineering, geology		750.00
Total		$3,770.00
For 8-months operation		$30,160.00

(c) Operating materials & supplies Tunnel 7-ft. X 5-ft.

Gas, oil for compressor @$550 per month	4,400.00	
Ties, 4"x6"x3' 5400' B.M. @ $78	421.00	
Estimate 300-feet require timbering:		
60-sets 8"x8"x7'8"x5' 6360' Bm. @ $78	506.00	
Lagging 2"x12" for 60-sets 10,200' B. M.	795.00	
40% Gelignite powder 7-tons @$400	2800.00	
22,000-ft. fuse @11.75 per 1000'	252.50	
5,000 caps @ $20.25	101.25	
Carbide	400.00	
Picks, shovels, tools	150.00	
Nails, spikes, etc.	100.00	$9,925.75

(d) Operating equipment purchased

Rail 16# x 12 2100-ft. 5.6-tons @ $135	756.00	
Fishplates, bolts, spikea (est)	120.00	
Switches	60.00	

1-Jackleg drill	675.00	
6-bars steel	60.00	
6-tungsten carbide bits	94.00	
2-3/4" airhoses and cou;ings	54.00	
6-18-cu. ft. mine cars second hand	1200.00	
1-mucking machine second hand	2500.00	
1-Air locomotive (Eimco)	2400.00	
1000-vent bags 16"	450.00	
1 blower & gas engine	375.00	$8,744.00

Operating equipment rented from Tungsten Mtn.

315-cu. ft. per min compressor @ $300	2400.00	
1-truck @ $100	800.00	
1- jeep @ $100	800.00	$4,000.00

Bulldozer prospecting

1-D8 Angle dozer for 8-days @ $96	744.00	744.00

Road estimate to be checked and detailed later $7,000.00

(e) Rehabilitation. None

(f) New Bluildings, improvements, installations

Dry and shed at new tunnel	$500.00
Additional camp for new men	400.00

(g) Miscellaneous

Estimated repairs to machinery, etc. @$60 per mo.	$420.00	
" Assays @ $40 per month	320.00	
" Accounting @ $50 per month	400.00	
Workmen's comp & Employers liability insurance @7.01% on $28,360	1989.00	
Unemployment tax @ 2.7%	765.80	
Social Security @ 2%	567.20	$4,261.80

(h) Contingenciea 1.000.00

TOTAL $66,735.55

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

OFFICIAL BUSINESS

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

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3180
Metal or Mineral Tungsten
Date Received 9-29-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: BENNETT W. PORTER
511 Securities Building,
Seattle 1, Washington

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Hilltop Lode Mining Claims, Porter No. 1, Porter No. 2, Porter No. 3, Porter No. 4 and Porter No. 5, Lode Mining Claims, located in the Clan Alpine Mining District, north of Eastgate, in Churchill County, Nevada, and recorded in office of the recorder of said county, each claim being 1,500 ft. long x 600 ft. wide held by original location, with proof of work filed - all as required by Local and Fed. law.

(*b*) State any mine name by which the property is known. HILLTOP MINE

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See attached

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. No production to date.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See attached

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See attached

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. See attached.

5. *The exploration project.*—State the mineral or minerals for which you wish to explore See attached

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See attached

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract. See attached

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See attached

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See attached

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. See attached

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See attached

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be. See attached

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project. See attached

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project. See attached

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes. See attached

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes.

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated September 25, 1953

Bennett Woodruff Poor
(Applicant)

By .....

.....

.....

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
SEP 22 1953

1. NAME OF APPLICANT. - (a) BENNETT W. PORTER,
511 Securities Bldg.,
Seattle 1, Washington

3. APPLICANT'S PROPERTY RIGHTS. -

(a) HILLTOP LODE MINING CLAIMS, PORTER NO. 1, PORTER NO. 2, PORTER NO. 3, PORTER NO. 4 and PORTER NO. 5, LODE MINING CLAIMS, located in the Clan Alpine Mining District, north of Eastgate, in Churcchill County, Nevada, and recorded in the office of the recorder of said county, each claim being 1,500 ft. long x 1,600 ft. wide, held by original location, with proof of work filed - all as required by Local and Federal law.

(b) HILLTOP MINE.

(c) OWNER.

(e) NONE.

(f) See attached

4. PHYSICAL DESCRIPTION. -

(a) Originally, there were 7 open cuts on the Hilltop Claim, approximately 4 ft. x 3 ft. to 5 ft. deep, 12 ft. long. The new work performed by the owner consists of a series of location cuts 5 x 6 x 15 ft. to 6 x 8 x 12 ft. on each of the Porter Claims, as shown on the accompanying exhibits. The claims have been surveyed by transit and stadia, and location of roads made which will be approximately 8,500 to 10,000 ft. in length. Accessibility is by automobile to the camp about one mile distant from the mineral showings on the property - all as shown on exhibits attached. General accessibility is by automobile from Fallon, county seat of Churchill County, east over Highway 50 to the town of Eastgate, approximately 59 miles; thence 29 miles by county road to Rocky Canyon Road; thence 2 miles to the camp, and from thence 9500 ft. to the workings on the Hilltop Claim by mine road to be constructed.

4. PHYSICAL DESCRIPTION (Continued)

(b) No production to date.

(c) The open cuts were carefully sampled and the assay returns showed an average of 8% WO_3. For geological features see exhibits attached, showing engineer's reports, assays, maps and technological information.

(d) See 4 (a) above and report of Arthur Lakes, Engineer, attached, and note total distance from mine to mill at Gabbs is 95 miles, 58 of which is on a paved highway; the balance covered by good roads.

(e) Miners available from Salmon, Idaho. Materials available at Fallon. Equipment arranged for. Water good (three sources available as shown on map) Power, diesel.

5. THE EXPLORATION PROJECT.

(a) Minerals for which exploration is to be made, is scheelite ore WO_3.

(b) See map and exhibits attached.

(c) Work to begin as soon as funds are made available; actual work could start within two weeks after completion of road from camp to mine, approximately 9500 ft. Completion time for the exploration project: 90 days.

(d) The experience of Bennett W. Porter, owner of this property, consists of 19 years of mining development and the actual exploration work will be in charge of Arthur Lakes, Mining Engineer and Superintendent, with over 30 years of experience in his profession.

6. ESTIMATE OF COSTS.

(a) $12.00 per hour for bulldozer, to be used in building 9050 ft. of mine road and in 10 days surface prospecting.

Estimate of cost:	Bulldozer - - - - - -	$2,880.00
	Helper - - - - - - -	450.00
	Total - - - - - - - -	$3,330.00

(b) Labor:

	4 men @ $15.00 per day - - - - -	$5,400.00
	Estimated boarding house loss -	400.00
Supervision:	Supervision and engineerins 4 months (inclusive of road-work) - - - - - - - - - - - -	3,000.00
	Geological work - - - - - -	1,000.00
	Travel, gas, oil, etc. - - -	400.00
	Maps, instruments rental, etc.	250.00
		$12,780.00

6. ESTIMATE OF COSTS (Cont'd)

	BROUGHT FORWARD -			$ 12,780.00
(c) 1.	Fuel oil - 1,800 gal. (approx.) @ 20¢ - - - - -		$ 360.00	
2.	Rough timber and lumber, 2000 ft. B.M. @ $85.00		170.00	
3.	Carbide -		45.00	
4.	Explosives:			
	4,000 lbs of 40% gelignite 1-1/8" - -	$798.00		
	5,000 ft. of fuse @ $11.35 -- - - ---	56.75		
	1,500 caps @ $22.50 - - - - - - - - -	33.75		
	Oil and accessory drilling supplies -	20.00	908.50	
(d) 1.	315 cu. ft. per min. Ingersoll Rand Portable Compressor with diesel engine	9,500.00		
	Transportation from Fallon - - - - - -	50.00	9,550.00	
2.	One jack leg - - - - - - - - - - - - - - - - - -		665.00	
3.	Six bars of steel for detachable bits, 2-2, 2-4, 2-6, @ $25.00 - - - - - - - - - - - - -		150.00	
4.	Five 1-1/8" Tungsten bits @ $15.60 - - - - - - -		78.00	
5.	Two 3/4" hoses @ $27.00 - - - - - - - - - - - - -		54.00	
6.	Accessory tools, wrenches, Stilson - - - - - - -		34.00	
7.	400 ft. 2" pipe - - - - - - - - - - - - - - - - -		400.00 or less	
8.	500 ft. of 12 lb. rail, spikes and fishplates -		140.00	
9.	Picks, shovels, hammers (on hand) - - - - - - - -		-	
10.	Two mine cars from Golstone @ $200.00 - - - - -		400.00	
11.	Pressure tank for drill - - - - - - - -	60.00		
	Hoses and fittings - - - - - - - - - - -	75.00	135.00	
(e)			None	
(f) 1.	One ore bin at showings	$ 1,000.00		
2.	Attempting to rent for this job 2 trailers at approx. $50.00 each per month - - - - - - - - - - - - - -	300.00		
3.	Small shop - - - - - - - - - - - - - - -	250.00	1,550.00	14,639.50
	CARRIED FORWARD -			27,419.50

6. ESTIMATE OF COSTS (Cont'd)

BROUGHT FORWARD -		$ 27,419.50
(g) 1. Maintenance of equipment (3% of Item (d) - $13,156.00 - - - - - - - - -	$ 394.68	
2. Accounting $100.00 per month (3 months) - -	300.00	
3. Workmens Compensation, Employers' Liability and Payroll Taxes	658.00	
(h) Contingencies -	500.00	1,852.68
T O T A L -		$29,272.18

7. (a) Yes

(b) Money

ARTHUR LAKES

MINING ENGINEER & GEOLOGIST

Davenport Hotel, Spokane, Wash &
Royal Bank Bldg. Nelson, B. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 20 1953

Son of late Arthur Lakes Sr. Professor of Geology, Colorado School of Mines, Editor Mines & Minerals and originator of Mining Course, International Correspondence Schools, Scranton, Penna.

Actively engaged for 33-years as engineer, geologist and manager; the last 24-years as international consulting engineer & geologist with offices at Spokane, Wash. Vancouver & Nelson, B. C., Canada during which examined more than 200-mines and prospective ventures covering gold, silver, lead, zinc, copper, tungsten, fluorite, mica, manganese, etc.

Most work related to determination and disclosure of new orebodies, extension of and development of known orebodies, layout of mining methods, etc. Included detailed geologic surveys of Texada Island, B. C. copper, gold, iron district, detailed geological survey and mapping of Sheep Creek Gold camp, B. C. one result of which was discovery by him of Gold Belt mine which provided $5,000,000 prior to exhaustion of orebody in 1949; 3-seasons in charge detailed geological survey of Sandon section of Slocan silver-lead-zinc district; search for war-needed tungsten in 1941 and installation of cost saving mining methods Coeur d'Alene district, Idaho. The Sandon survey cost about %75,000 and originated (in conjunction with findings of other geologists) the new geologic concept guiding to Slocan ore deposits which has been so successfully applied to the outstanding developments of the Violamac mine from a 40-foot long by 18-inch wide ore lense at upper level to 800-feet ore length at lower levels providing $2,000,000 during past four years and $10,000,000 proven ore reserves at present metal prices.

Lakes' career includes successful discovery and exploration-development of following mines:

(1) Gold Belt mine, Sheep Creek gold camp, British Columbia, discovered and initially opened by him. Production about $5,000,000 to final exhaustion of orebodies.

(2) Disclosure of additional veins on Sheep Creek Gold Mines property, Sheep Creek gold camp, B. C. Production from these additional veins about $3,000,000

(3) Directing attention to, mapping, and establishing work layout on the extensive replacement zinc oredeposits of Lucky Jim mine, Slocan district, B. C. which provided much greater returns than from original fissure veins and provided more than $6,000,000 to Sheep Creek Gold Mines Ltd. to date. Until the Emerald-Jersey and Reeves MacDonald mines were put into production in north extension of Pend Oreille district near Salmo, B. C. Lucky Jim was B. C's. second largest zinc producer by reasons of the replacement ore.

(4) Geologic determination of replacement ore extensions (zinc) at Whitewater mine, Slocan district, B. C. and direction of work to open them. Provided more than $1,000,000 to date.

(5) Geologic determination of deep level extensions of Noble Five silver-lead-zinc veins, Slocan district, B. C. Production more than $500,000 to date. This proved that Slocan orebodies extend to greater depths than previously believed.

(6) Recommended purchase of Victor group (now the outstanding Violamac).

(7) Made original examination and recommendations Reeves Mac Donald mineral deposits for Victoria Syndicate, eventually transferred to Pend Oreille M. Co. and now one of B. C's. largest zinc-lead operations and Pend Oreille Co.s. best dividend payer.

(8) Manager & Geologist 1926-30 for Emerald mine, Salmo, B. C. producing lead ore and concentrates. Conducted geological survey leading to eventual disclosure of tungsten and to disclosure of zinc orebodies at surface, since opened by brother, Harold Lakes, Gen.Mgr., Canaidian Exploration Ltd. into possibly North America's largest tungsten mine with estimated $63,000,000 tungsten ore, and one of Canada's foremost zinc-leadm ines with about 8,000,000 tons of sinc-lead ore worth about $160,000,000 at current prices and with earnings about $1,000,000 per month.

(9) Lucky Friday mine, Coeur d'Alene district, Idaho. outlining depth extensions from small 600-level showings to major 2200-levels showings. Due to its high silver-lead content Lucky Friday is one of four or five mines in Coeur d'Alene presently making profit under current low metal prices.

(10) Consulting geologist for American Silver, Coeur d'Alene distrcit, Idaho. Recent participant in multi-company plan whereby Polaris M. Co. is expending about $750,000 in deep level exploration-development of American Silver and adjoining properties.

(11) Geological examination and recommendation Clayton mine, near Challis, Idaho in 1931 led to formation Clayton M. Co. and its subsequent development into fourth silver-lead-zinc producer of the state

(12) Other successful exploration-development-productive operations in British Columbia, Idaho (Hailey, Coeur d'Alene), Washington, Colorado, California and Mexico.

Registered Professional Engineer, British Columbia, Licensed Mining Engineer, Washington state.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1953

SYNOPSIS RE HILLTOP PROSPECT

Churchill County, Nevada

September 23, 1953

The following is sequel to my Preliminary Report July 15th, and is gotten out for information to DMEA covering description of claims, claims additional to original purchase by B. W. Porter, Seattle, Wash. July 31st, and such geological features observed in connection with my transit-stadia survey just completed. More detailed geological mapping will be required and may provide important additions to the excellent present Hilltop showings.

PROPERTY Hilltop property now comprises 14-mineral claims and 1-placer claim held by location in Clan Alpine District, Churchill County, Nevada as shown on accompanying Map. Eleven claims have been recorded and are in good standing at County Recorder's office Fallon, Nevada as set out in attached schedule. Three are in process of location under Nevada law which allows 20-days to set corners and an additional 70-days to perform location work and recording. There are no debts or encumbrances to Mr. Porter's title.

LOCATION Hilltop property is from 5500 to 7000-feet above sea level according to 6000-feet aneroid reading at Camp.

It is 93-miles from the chief supply center at Fallon via 59-miles over Highway 50 to Eastgate, thence 29-miles by county road and thence 4-miles up mine road to camp. From camp 9050-feet of mine road is to be built to lower part of present Hilltop showings as shown on Map. Thus the full distance from Fallon to the workings will be 94.7-miles, all on good roads with maximum 12% grade up first 4850-feet of proposed road.

TOPOGRAPHY Topography is typical rolling Nevada hills cut by SE trending Rocky Canyon down 3-miles from camp to broad flat Clan Alpine valley which extends southerly to Eastgate. The mountains bordering Rocky Canyon rise about 1200 to 1400-feet up to the NW trending ridge near which are the claims of Hilltop with this property's Garnet group in a parallel gulch to the SW. The hill slopes on SW side of Rocky Canyon are cut by five NE "V" shaped cross gulches as sketched on the 2000-ft. to 1-in. map. These cross gulches are bordered by very steep slopes which would make difficult road location hence the road layout has been planned to extend above them and thereby miss these difficulties. Road location takes off as five switchbacks in good going near camp. These extend 4850-feet and rise 580-feet elevation @ 12% grade, thence the road will follow below ridge for 4000-feet @ 6% grade to bin site at granite contact below Hilltop's present W03 showings as shown on accompanying Map. This road will be practically all bulldoze work and the crossing of the granite (which requires blasting) will be in area of overburden cover which should dig satisfactorily.

FACILITIES As this is an undeveloped prospect there is no equipment and until the road is completed none can be established. A compressor should be on hand to help road construction where some

blasting might be needed.

Similar to usual conditions in this part of Nevada there is no usable timber at or near the property and such that may be required will be bought as rough lumber @ $85 per 1000-B. M. wholesale. Judging from other properties in about the same rock setting very little timber support will be required.

There is no water available at Hilltop claim, hence drill water will have to be hauled 1.6-miles from camp workings. This lack of water precludes diamond drilling for depth and lateral extensions of WO3 ore. The surroundings provide three presently known water sources (1) small supply from tunnel about 300-feet from camp which can be developed for limited use by putting in a concrete dam and piping to camp. Subject to satisfactory test that this water is drinkable it could supply camp needs. (2) a small spring about 2-miles down canyon from camp which can be developed into better supply (3) three folowing artesian wells reported 105-feet average depth in Clan Alpine valley at Byers ranch 6.6-miles by road from the mine camp. These aggregate a flow of about 1-sec. ft. The present camp water supply is hauled by barrels from here.

Other wells drilled in Clan Alpine valley have successfully supplied good water supply and it is believed that a well at the entrance of Rocky Canyon has a good chance to develop sufficient for a small mill. In this event an aerial tramway about 1-mile long would lead from bin site to mill or the ore could be hauled 4-miles down proposed and present Rocky Canyon roads to mill site.

GEOLOGY As will be noted on Key Map Hilltop property is in one of the most prolific stugsten areas of the United States containing the largest tungsten producer of the nation and a number of other important mines inclusive of Nevada Scheelite a long time important producer and more recent spectaculary rich Baxter-Hancock which produced $30,000 in its first eight day's operation and has since produced a reported $1,000,000 in about seven months, the rich producer Gabbs Exploration reported to have provided $2,500,000 during the past three years and now building a mill 23-miles from its property, the El Capitan, immediately adjoining Gabbs Expl. with high grade production on leaser basis. The areas are continually growing with new discoveries of which Hilltop appears to be one of the most spectacular. The area lies on east-central part of Western tungsten arc which by its Nevada-California producers has provided the largest part of United States tungsten production.

The rocks enclosing Hilltop property are argillite, schist, and limy beds striking generally NE and dipping steeply SE. These are bordered East-West and North by rhyolite flow rocks and are cut by a granite "plug" indicated to be about 4500-feet E-W by 2500-feet N-S as shown on accompanying Map. From the "plug" NE edge a dike like granite mass, varying from 700 to 1000-feet thick, strikes NW

and West across strata.

The present Hilltop showings are in limy rock enclosed in a granite "bay" between the north end of the plug and where the dike extends out NW as shown on the Map. This "bay" measures about 700-feet NE-SW by about 500-feet NW-SE and the present Hilltop showings form: (1) steep SE dipping vein striking N 37° E apparently bedded in limy-argillite contact where is located the Discovery (sta 65) (2) S 57° E 130-feet from Discovery occurs westerly end of the present most important WO3 showings in apparently a cross shear which is traced 25-feet east by two cuts averaging about 6-feet width of ore. Thence offset 10-feet south is the west end of the southern showing traced 60-feet east by three cuts. No work has been done to prove: (1) whether the north showing continues easterly parallel to the east trending south showing or (2) whether the south showing extends westerly parallel to north showing as the two holes to west of ore are in earth and have not prospected the possible extensions. Low grade WO3 is reported at small outcrop 20-feet southerly from the south showing and another 60-feet to its north. This may indicate a spread out north and south from the presently exposed ore.

A hole 40-feet SE from the east end of south showing is in earth and shows nothing. The initial discovery apparently was a mass of WO3 float at the lower (A-1) end of the south showing and prospect work proceeded up westerly from there.

These showings start about 160-feet up to west from the granite contact. A sample of granite showed WO3.

A locality of speculative interest is possible intersection of westerly extension of the WO3 rich shear zone with the SW extension of the WO3 rich bedded vein encountered at Discovery (sta. 65)

PROSPECTING Obviously bulldoze prospecting is called for. Overburden is around 3-feet deep. The rocks are soft and easily cut into by bulldozer blade. On accompanying Map 2 (20-feet to 1-in.) is indicated points for bulldozing. Some of these cuts will be continued along contour for full 600-feet or more from granite to granite.

Objectives of bulldoze prospecting will be (1) to determine extensions east and west of the two principal showings, (2) Explore north-south beyond them in chance that other streaks may occur or that more extensive, lower grade ore might be found which, if successful, could make a good size mill operation. (3) Explore along the bedded vein northeast and southwest from sta. 65 and test the intersection possibilities of its SW extension with westerly extension of the structure containing the largest present ore bodies. (4) bulldoze prospecting should continue by contour cuts down to the granite contact at the east, NE and SW, in chance that the immediate contact zone may provide good ore because of the WO3 found in the granite. Whilst 10-days has been allocated for bulldoze prospecting this immediate area this time limit will obviously be extended to further prove any encouraging disclosures.

Minimum exploration In view of the inability to diamond drill for

depth and lateral extensions along presently known streaks or other showings gotten by bulldoze prospecting it is advised that a minimum exploration comprise about 200-feet of tunnel as depicted on Map 2. This would comprise at least 100-feet of tunnel extended westerly from lowest (east) end of south showing (A-1) to be extended farther if encouragement is met in the face. At 60-feet from portal a 15-foot crosscut be driven north to tap downward extension of the north showings which also would be followed westerly into the mountain as long as WO3 bearing rock maintains. This plan would be modified by results of bulldoze prospecting which would be completed before the tunnel starts.

Values The WO3 values shown on Map 2 are from preliminary June 30th 1953 sampling made at night. Method followed was to lamp the ore, stake its width and take as good sample as possible of the near surface material without use of the black lamp. This was varied by use of black lamp in sampling the float in order to get an idea of its sorting possibilities.

Our lamp estimate of WO3 content was around 2% to 3% and the assay results were surprisingly higher. The pulps were checked by assays at Canadian Exploration which gave same results. There is no wolframite or other tungsten ore that would not effloresce hence the high assays are representative of scheelite in the ore. The scheelite extends throughout the rock in spots from 1/8" to ¼" diameter. On the fact that even where solid faces are exposed, as at Canadian Exploration, no two samplings at same cut will give same WO3 results I have been inclined to reduce the June 30th assay results to about half their Arithmetical average and in my calculations have used 4% as an average. The high WO3 results definitely give an idea of the possibilities indicating that exploration-development will give high grade similar to values found at Baxter-Hancock, Gabbs Exploration, El Capitan, etc.

See map for locations	Assay No.	Widths	WO3	Remarks
East end A-1	Float	20-30-ft.	9.6%	Broken chunks sampled by aid black lamp for sorting possibilities
Average from two cuts 20-feet apart	No. 1	5.5-ft.	7.3%	Sampled without black lamp
No. 2 cut	No. 3 (B)	6.0-ft.	9.5%	From #2 cut 17-feet north of "Mac's cut"
No. 3 cut	No. 3 (C)	6.0-ft.	12.0%	Across No. 3 cut in strong scheelite show
Discovery	No. 4	3.0-ft.	5.8%	Grab Discovery & N-S holes.

Character of Ore No iron pyrites or other sulphur bearing minerals are shown to sight. The ore is essentially rather coarse scheelite crystals distributed throughout the rock. It may have a tendency to slime in milling and might require flotation for separation into specification product. This to be determined by mill test.

Seattle, Wash.
September 23, 1953

Arthur Lakes
(Arthur Lakes)

(c) Geologic features: Argillaceous, limy rocks and schist enclosed in a granite "bay". Present ore along veins wish to explore to determine economic possibilities of this rich prospect.

(d) Property requires 9050-feet of mountain road as per attached map to connect with good mountain road 4-miles down canyon to county road, thence 29-miles to Highway 50, thence 59-miles to Fallon, chief supply center and county seat, Churchill County.

Showings presently accessible by foot trail 4489 feet up 1300-feet elevation along SW ridge extending from canyon mine road

(e) Men being brought from Salmon, Idaho. Materials, supplies from Fallon. Equipment being bought from various Mining machinery firms who have quoted as per attached. Water for drilling (mine) will have to be hauled 1.6-miles over proposed road. Power will be by Deisel engine.

3. Applicant's property rights. The land upon which wish to explore or that may be benefitted by the exploration comprises:

Wish to explore: Hilltop unpatented claim

Property that may be benefitted by the exploration: Porter #1, #3, #5 unpatented claims.

(b) The property is known as Hilltop

(c) Owner

(d) See above

(e) There are no debts or encumbrances on the property

(f) Hilltop unpatented claim Recorded at Churchill County seat Fallon, Nevada. In Mine Book 26, page 314 at 32-minutes past 11 o'clock Am. December 1, 1951.

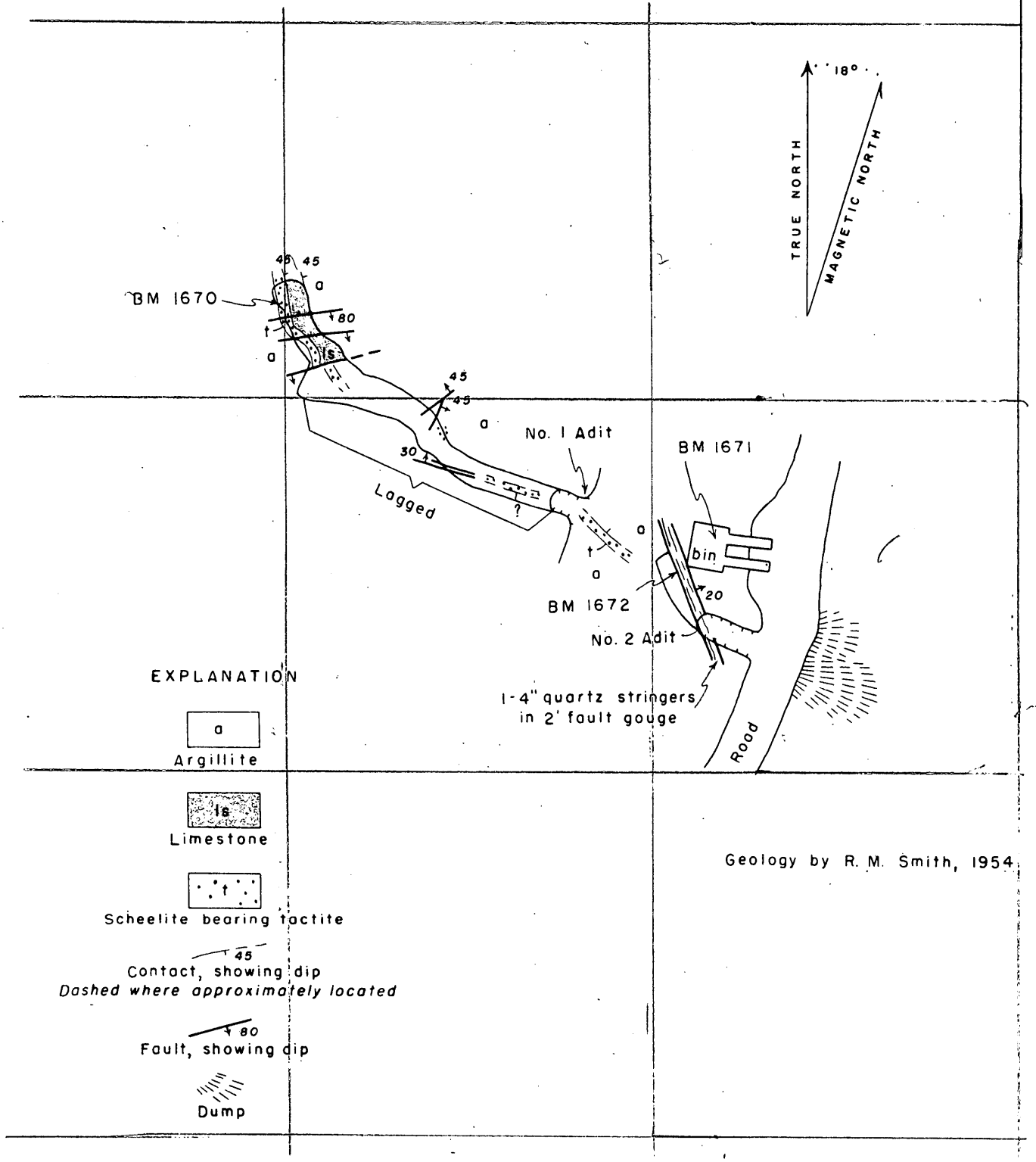
Located November 25, 1951 by G. C. Staggs & A. J. Quilici in Clan Alpine District, Churchill County, Nevada, 5 miles north of Byers Ranch, 1 mile south of Nevada Gold mine. Vein easterly and westerly. Claim 1500 linear feet along course of mineral bearing ledge, Lode vein deposit 750-feet west from Location and 750-feet east, 300 feet width each side for entire length of claim. Discovery Open cut 100-feet east from Location Monument, 7 x 12, x 3, exposing ledge, vein or mineral deposit. Claim monumented 25th day of November 1951. NW corner stone monument 3-feet high inscribed NW-cor. Hilltop claim, SW-corner marked stone monument 3-ft. high inscribed SW-cor Hilltop claim, NE corner marked stone monument 3-ft. high inscribed NE-cor Hilltop claim, SE corner stone monument 3-ft. high stone monument inscribed SE-cor Hilltop claim. There is also stone monument in center of each sideline. Discovery work has been done and location completed since 29 November 1951. Filed for record at request Angelo Quilici, December 1, 1951 at 32 minutes past 11 o'clock A.M. Gladys R. Dalby.

4. Physical description. No mining-exploration operations have been done or now being conducted upon the land.

(b) No past or current production, ore reserves unknown. Preliminary sampling gave WO3 results from 5.8% WO3 to 12% WO3 as per attached map.

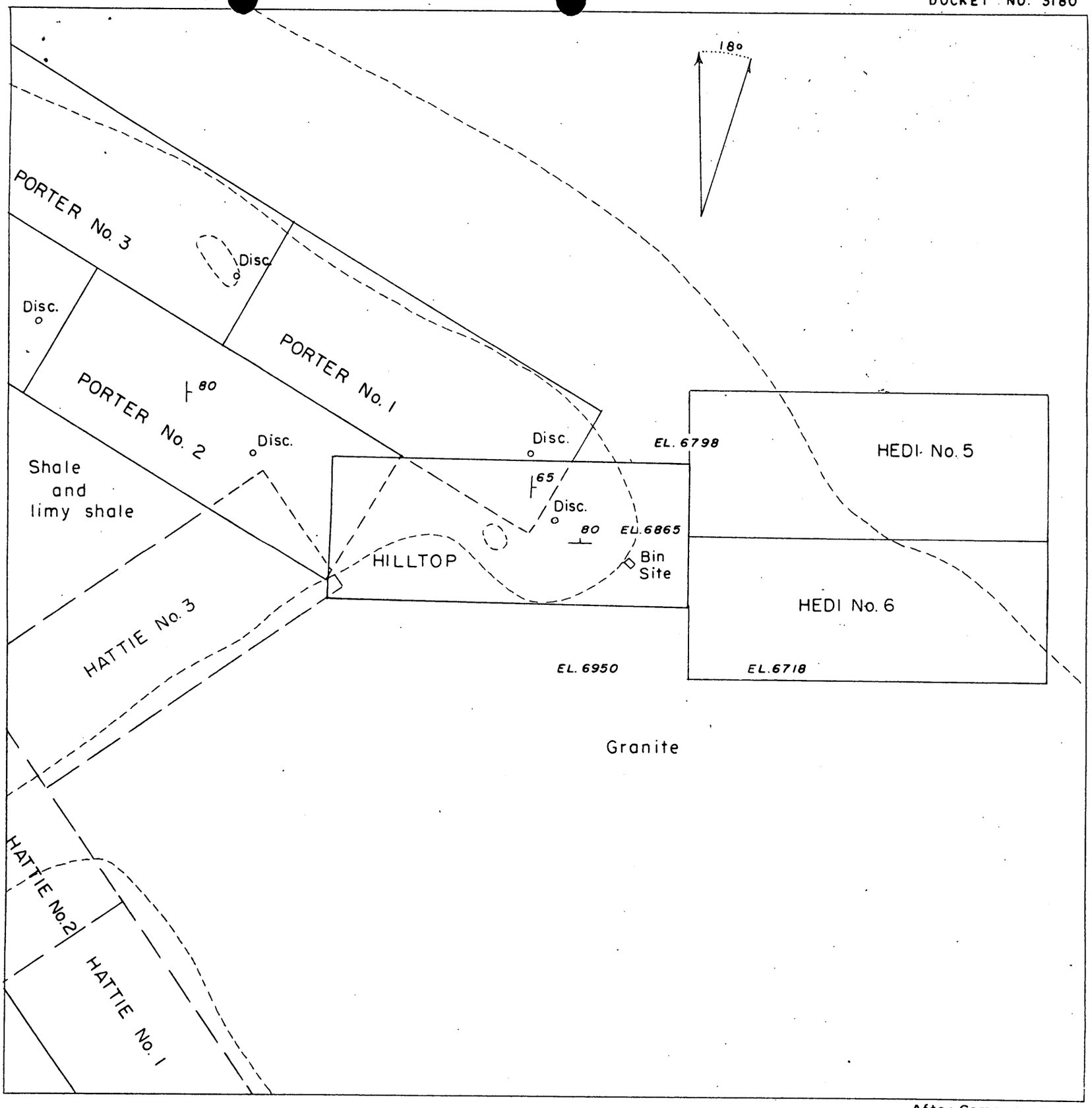
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3180
(TUNGSTEN)



GEOLOGIC MAP OF ADITS NO. 1 AND NO. 2, HILLTOP MINE
CHURCHILL COUNTY, NEVADA

40 0 40 80 Feet



After Company maps

FIG. 2 MAP OF HILLTOP AND ADJOINING CLAIMS

0 500 1000 FEET

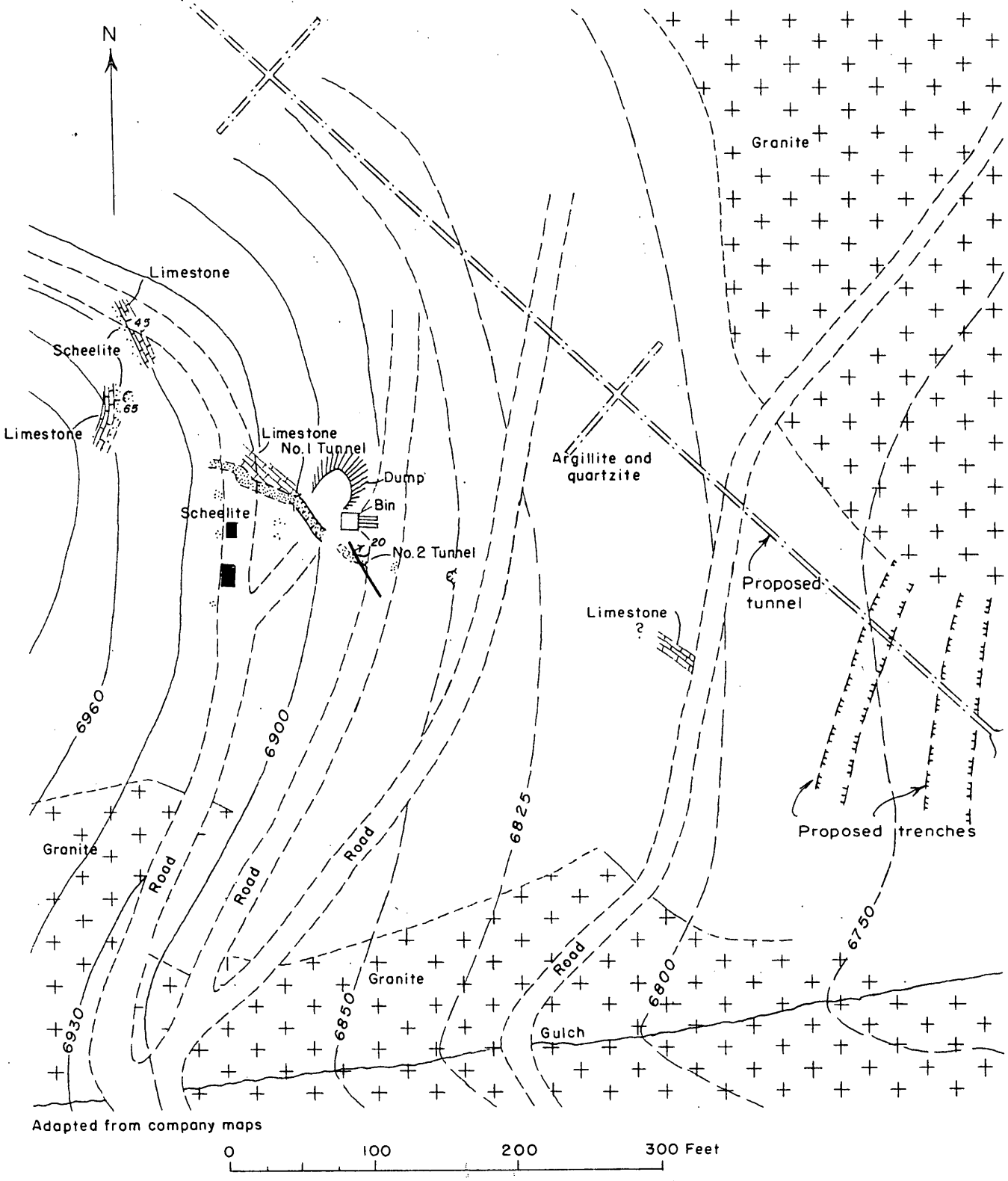


FIGURE 4. GEOLOGIC MAP OF THE HILLTOP MINE, CHURCHILL COUNTY, NEVADA

CLASS OF SERVICE

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WESTERN UNION

W. P. MARSHALL, PRESIDENT

FX-1201

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O. REA709 NL PD=FALLON NEV 17= 1954 AUG 17 PM 11 59

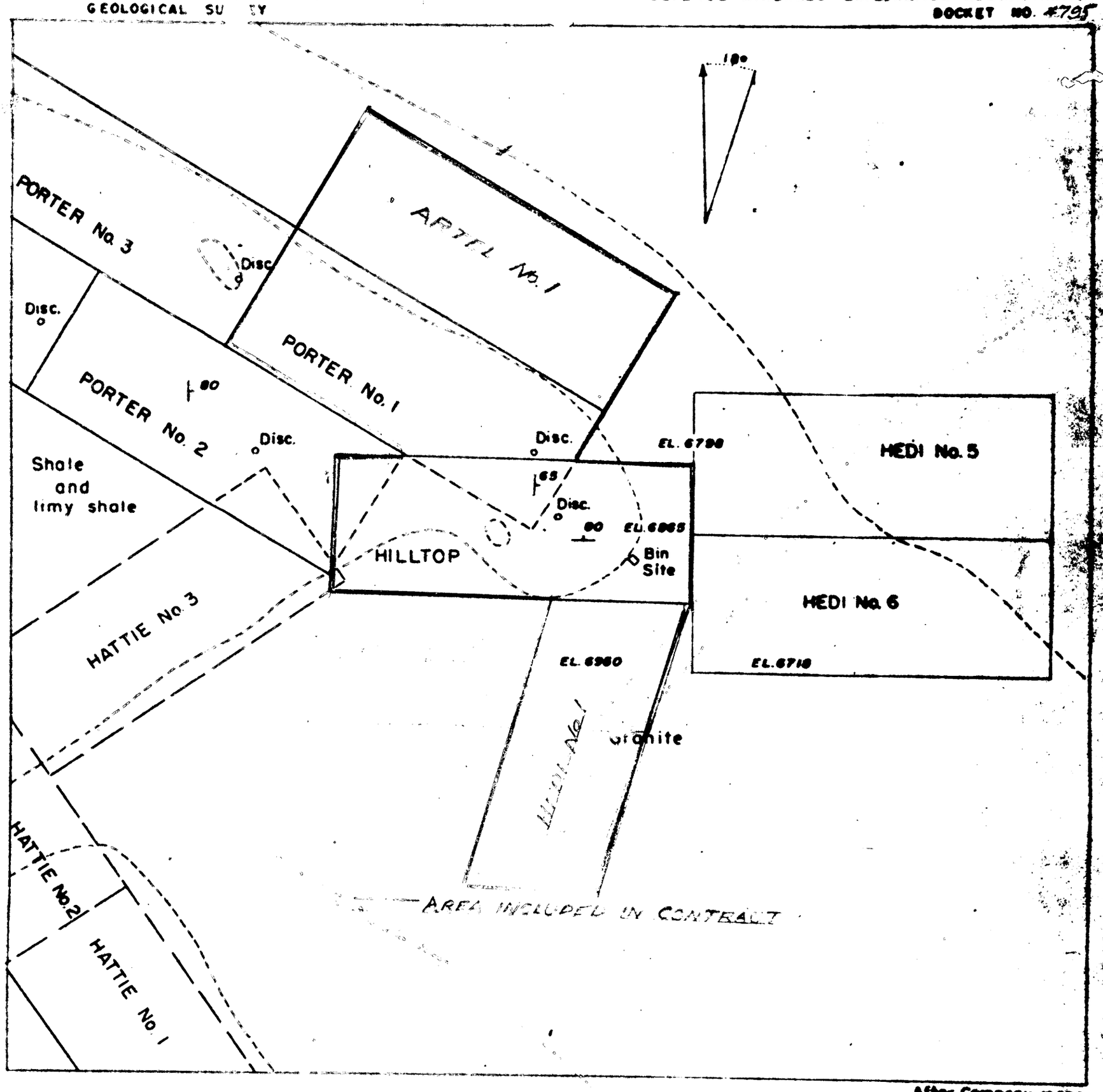
C O MITTENDORF ADMINISTRATOR=DEFENSE MINEARLS
EXPLORATION ADMIN INTERIOR BLDG WASHDC=

RETEL CONCERNING DOCKET NO DMEA 3180 THE OFFICERS OF THE TUNGSTEN MOUNTAIN MINING CO ARE BENNETT W PORTER PRESIDENT AND TREAS EMIL MOTTMAN VICE PRESIDENT AND F M MILLS SECRETARY ALL OF FIVE ELEVEN SECURITIES I BUILDING SEATTLE ONE WASHINGTON=

BENNETT W PORTER=..

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

AUG 18 6 54 AM '54
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

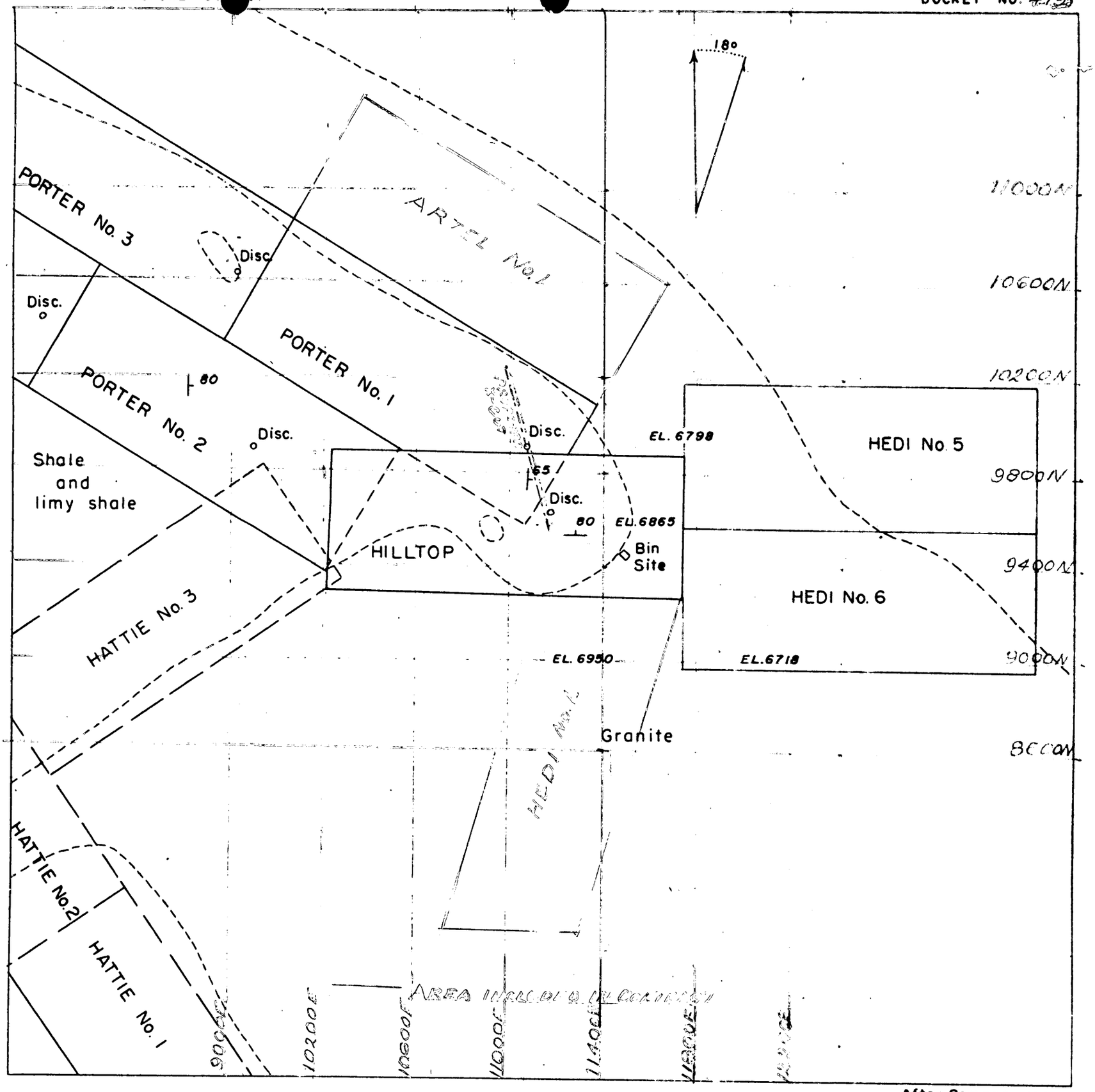


After Company maps

FIG. 2 A

MAP OF HILLTOP AND ADJOINING CLAIMS

0 500 1000 FEET

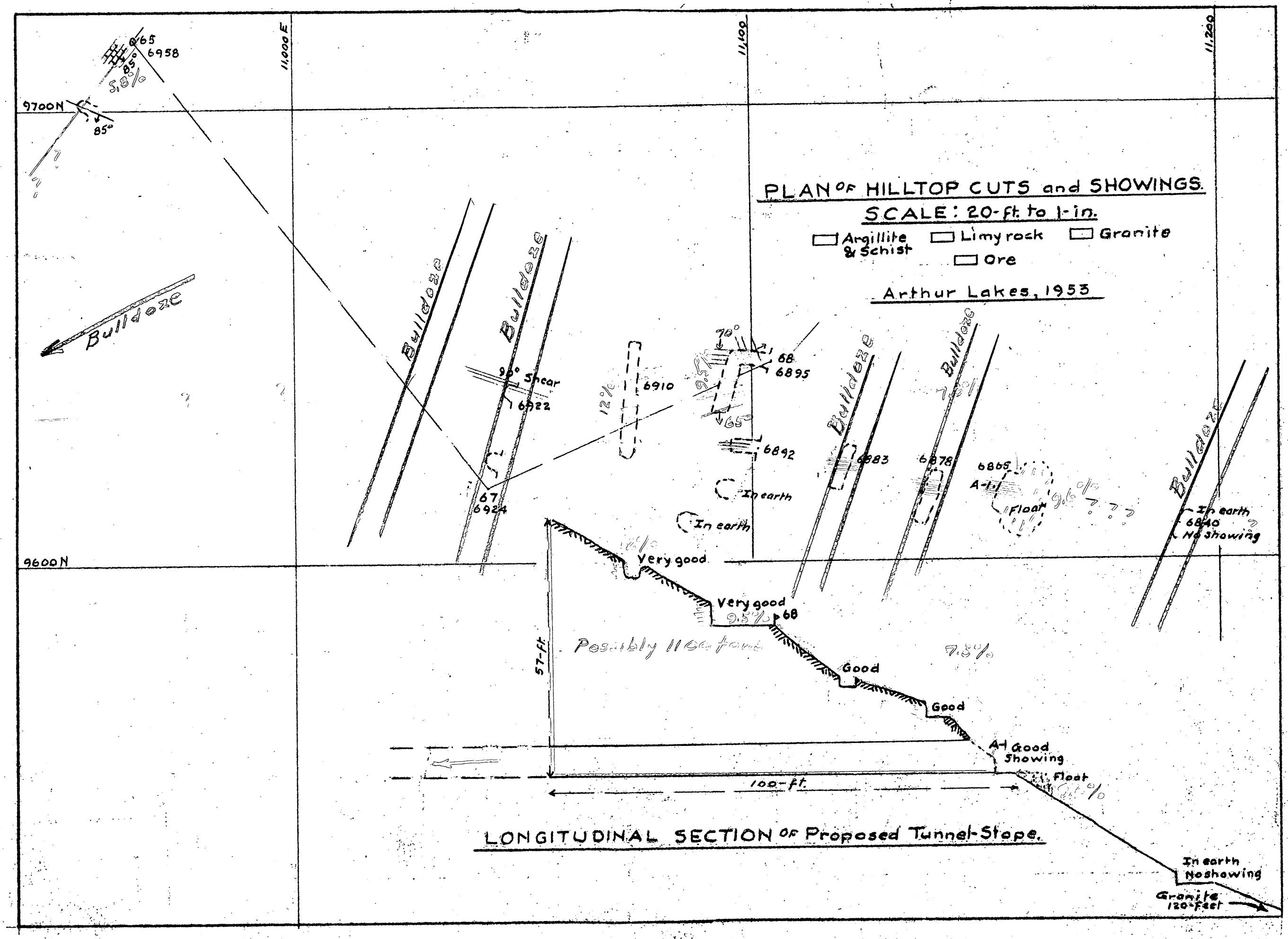


After Company maps

FIG. 2A

MAP OF HILLTOP AND ADJOINING CLAIMS

0 500 1000 FEET


PLAN OF HILLTOP CUTS and SHOWINGS.
SCALE: 20-ft. to 1-in.
Argillite & Schist
Limy rock
Granite
Ore
Arthur Lakes, 1953
11,000 E
11,100
11,200
9700N
9600N
Bulldoze
65
6958
85°
5.8%
85°
90° Shear
6922
12%
6910
70°
68
6895
9.5%
65°
6892
In earth
In earth
67
6924
6883
6878
6865
A-1
Float
9.6%
In earth
6840
No showing
Very good
Very good
9.5%
68
Possibly 11% at face
7.8%
Good
Good
A-1 Good Showing
Float
6.4%
57-ft.
100-ft.
LONGITUDINAL SECTION OF Proposed Tunnel-Stope.
In earth
No showing
Granite
120-Feet

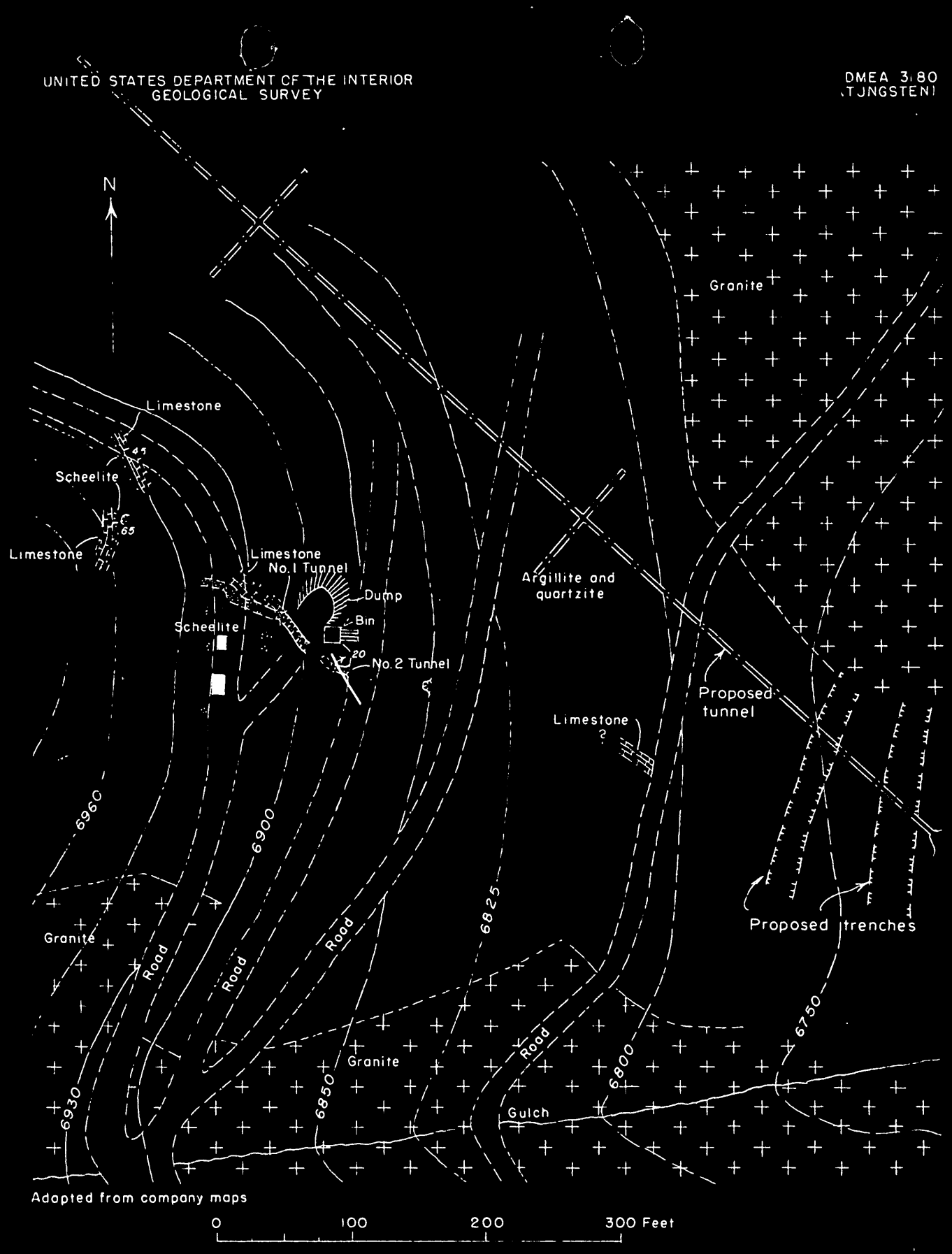
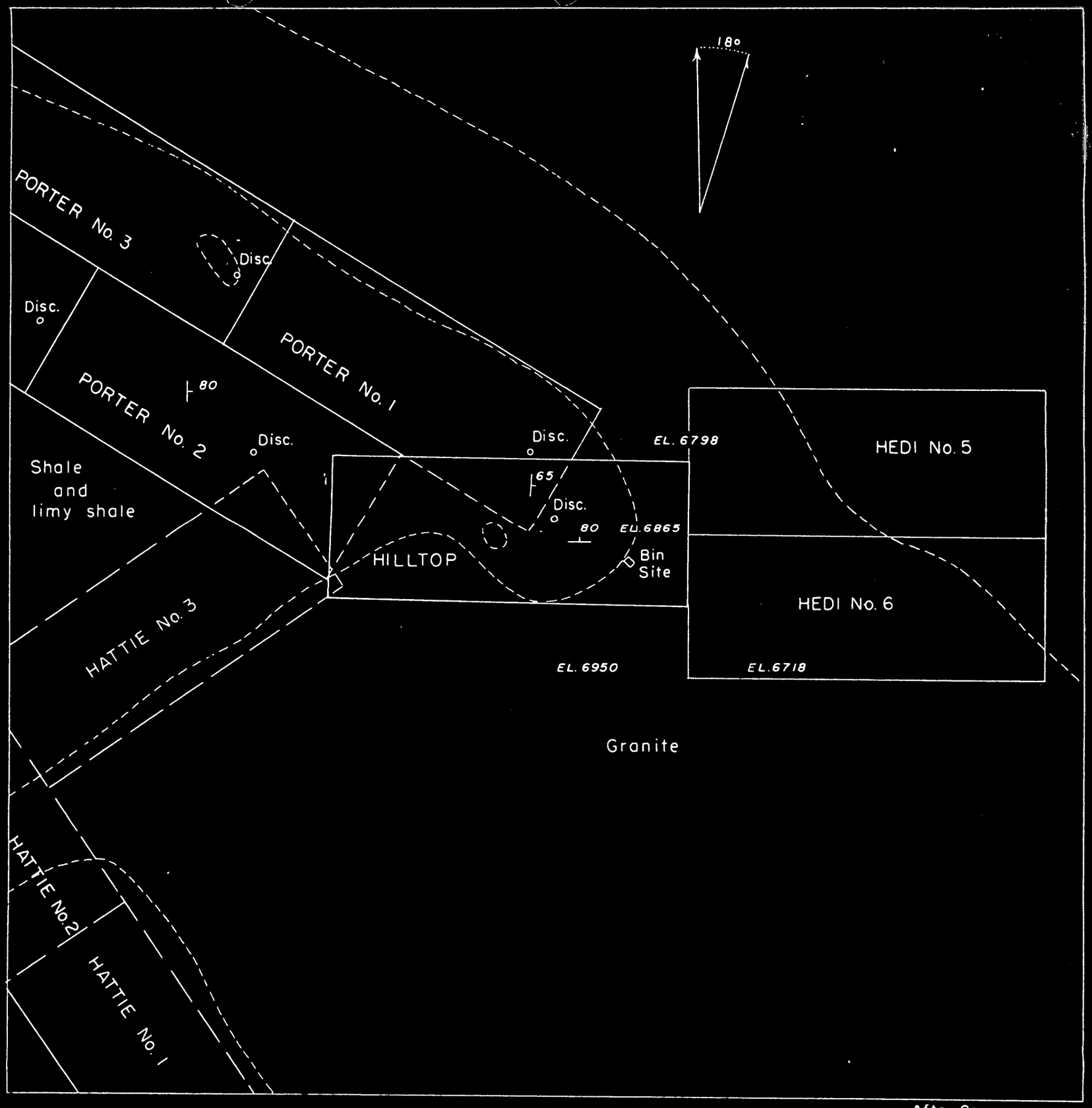


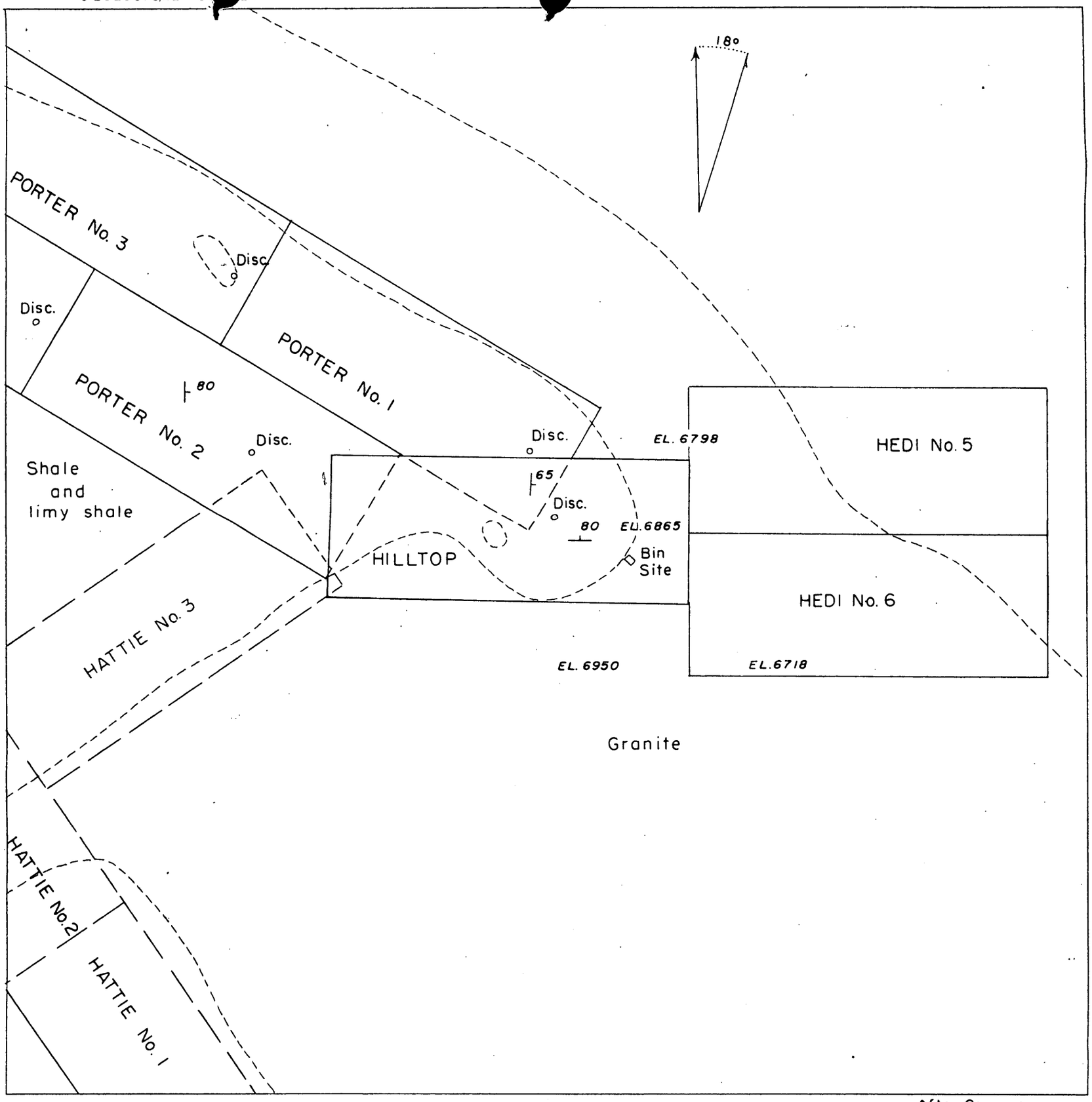
FIGURE 4. GEOLOGIC MAP OF THE HILLTOP MINE, CHURCHILL COUNTY, NEVADA



After Company maps

FIG. 2 MAP OF HILLTOP AND ADJOINING CLAIMS

0 500 1000 FEET



After Company maps

FIG. 2 MAP OF HILLTOP AND ADJOINING CLAIMS

0 500 1000 FEET

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3180
(TUNGSTEN)

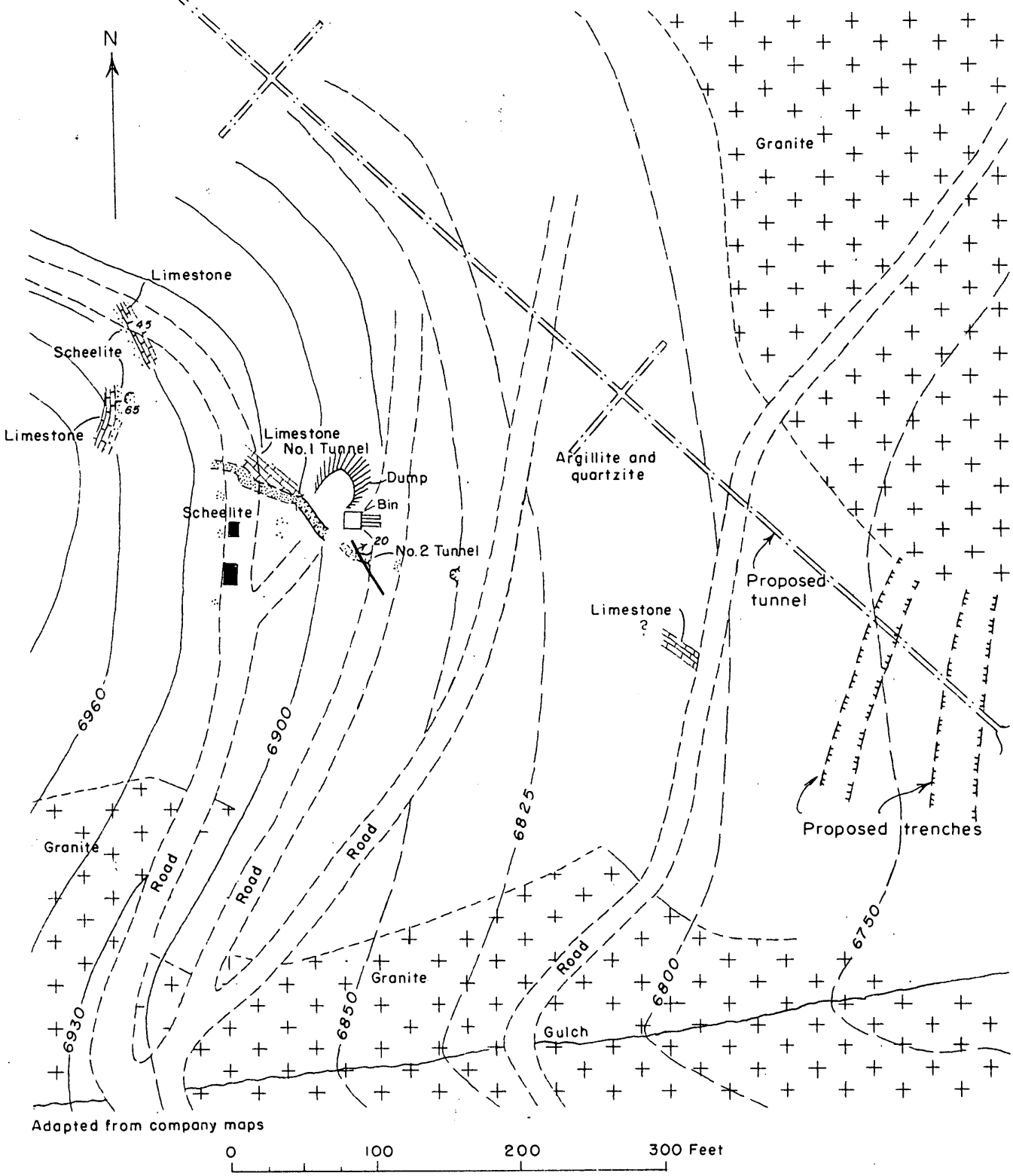


FIGURE 4. GEOLOGIC MAP OF THE HILLTOP MINE, CHURCHILL COUNTY, NEVADA

File
DMEA 3180

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

42T

November 19, 1962

Re: DMEA-3180 (Tungsten)
DMEA-4798 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract Idm-E707
Contract Idm-E1158

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Tungsten Mountain Mining Co.
311 Securities Building
Seattle 1, Washington

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

DMRA-3180
Idm-E707
DMRA-4795
Idm-E1158

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since March 18, 1959, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since March 18, 1959, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____	_____	_____
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since _____, has any production been transported through _____ workings (see _____ of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

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

Project Summary

July 13, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Summary of Project - Notice of Termination
Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-F707

This Division hereby concludes that as the Operator has shown little interest in completing the work as outlined in the contract and amendments thereto the contract should be terminated.

The description of the property, work done and results obtained follows:

Operator: Tungsten Mountain Mining Company
Bennett W. Porter, President and Treasurer
511 Securities Building
Seattle 1, Washington

Property: The property consists of 8 unpatented lode mining claims as follows:

Claim No.	Book No.	Page No.
Porter No. 1	27	67
Porter No. 2	27	67
Porter No. 3	27	68
Porter No. 4	27	68
Porter No. 5	27	69
Hedi No. 5	27	223
Hedi No. 6	27	223
Hilltop	27	593

The claims are recorded in the Court House at Fallon, Churchill County, Nevada. The property is owned by the Operator by purchase and agreement transferring the royalty rights of Earl Elliott to the Operator.

Contract: Dated September 13, 1954, for bulldozing, diamond drilling and drifting, amounts to $32,268.00, Government participation 75 percent, $24,201.00.

Amendment No. 1, changed location and amount of different types of work, with no increase in the cost. The time for completion was changed from 8 months to 18 months.

Amendment No. 2, granted a recess from December 1, 1955, to May 15, 1956, and completion date was extended to September 13, 1956.

Work Completed: Bulldozing access road and trenching, 48 hours at $12.00 per hour, $576.00, Government share 75 percent $432.00.

Geology: Limy and schistose beds are bordered by rhyolite and andesite flows and intruded by a granite plug. Along the contact zone tactites have been formed which show scheelite mineralization. The area is cut by a number of faults, indicated to be pre-mineral and post-mineral. The mineralization in the tactite zone is irregular and spotty.

History & Production: This area was located and prospected in the early days for gold and silver. In 1953 the occurrence of scheelite was noted and the property was taken over by the Tungsten Mountain Mining Company. In 1953 and 1954 prior to the date of contract 17,500 tons of rock were mined from the mineralized zone. By hand sorting and selective mining 533 tons of ore were shipped to Bishop, California, and sold for a net return of $41,046.00 to the Operator or approximately $77.00 per ton, which would indicate that the ore would run about 2 percent tungsten trioxide.

An adit driven by the Operator on company account about 100 feet below the above ore zone and 72 feet long failed to find any ore of a minable grade.

Comments: The Operator has shown very little interest in carrying out the terms of the contract and amendments thereto. Amendment No. 2, set the end of the recess at May 15, 1956. An interim inspection was made on June 25, 1956, and no work on the contract had been done since the inspection on June 23, 1955.

Recommendations: Due to the apparent lack of interest by the Operator in carrying out the terms of the contract and amendments thereto, this Notice of Termination is being issued.

Thos. L. Chapman

T. L. Chapman, Acting Chief
Iron and Ferro-Alloys Division

DMEA Form 17
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WORK COMPLETED ANALYSIS

After final audit or review report is received, prepare original only and file in official docket

Operator: Tungsten Mountain Mining Company		Actual Cost	
State: Nevada		Agreed Unit Cost	X
Final Report of Audit		Commodity: Tungsten	Docket No. 3180
Final Report of Review	X		Contract No. Idm-E707

Operation	Authorized by Contract and Amendments		Completed		Net cost after sale of Government Property
	Units	Cost	Units	Cost	
Drifting & Crosscutting	Feet 1,050	$ 31,500.00	-	-	-
Raising					
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation		768.00		576.00	576.00
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		32,268.00		576.00	* 576.00

* Net cost total must agree with final report of audit or review.

Work terminated after bulldozing did not locate any ore.

Prepared by _____ Date _____

James Hopkins

31398

OFFICIAL FILE COPY
O. M. E
RECEIVED JAN 30 1963
DATE
1/30 800
500
4/31 500

So. 157 Howard Street
Spokane 4, Washington
January 28, 1963

Mr. R. A. Magill
U. S. Department of the Interior
Bureau of Mines
University Campus
Seattle 5, Washington

220

Re: DMEA-3180 and DMEA-4795 (Tungsten)
Tungsten Mountain Mining Company
Churchill County, Nevada
Contracts Idm-2707 and Idm-21158

Dear Mac:

Enclosed is a copy of a self-explaining memorandum from Chief, Division of Field Operations. Any information you can secure regarding possible recent activity and the present status of the property and whether Porter or Tungsten Mining Company is still the owner will be greatly appreciated.

Regards,

D. R. MacLaren
Acting Field Officer, OME
Region I

Enclosure

DRMacLaren:my

cc: OME(2)
Reading copies to:
Helen
McKelvey

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
1/18	on leave	500
"	Holt	500
		800
1/21	Selfridge	130
"	Johnson	110
1-22	Hunnicutt	100
		220

JAN 21 1963

Memorandum

To: Acting Field Officer, Region I

From: Chief, Division of Field Operations

Subject: DMEA-3180 and DMEA-4795 (Tungsten)
Tungsten Mountain Mining Company
Churchill County, Nevada
Contracts Idm-E707 and Idm-E1158

On September 26, 1962, we sent two copies of MME Form 63, Request For Information On Certified Project And Project Under Royalty Agreement, addressed to the Operator under the subject contracts:

Tungsten Mountain Mining Company
511 Securities Building
Seattle 1, Washington

Having received no reply to our request for information, on November 19 we sent two more copies of the form to the same address by registered mail, return receipt requested. The receipt was returned by the Seattle post office, completed to show that our letter had been delivered on November 26 to the Tungsten Mountain Mining Company, and signed for by B. W. Porter. (Bennett W. Porter signed the applications and the contracts as president of Tungsten Mountain Mining Company.) To date, no further reply, and no completed Form 63 have been received.

As the company was the owner of the property, there were no signers of Owner's Consent to Lien or Subordination Agreements. Therefore, our list of possibilities is exhausted. It will be appreciated if when you or any of your Bureau of Mines or Geological Survey friends happen to be in Seattle, you will contact Mr. Porter or the Tungsten Mountain Mining Company in an effort to secure information concerning possible recent activity and present status of the property.

SPHolt/mm
1-18-63

George C. Selfridge (gla)

cc: Director's Reading File
Region II (2)
Review Committee
Dockets 3180 and 4795
Code 500

43683

MME Form 7
(10-58)

Ref T-4 ✓

File in Docket
DMEA-3180
Idm-E707

OFFICIAL FILE COPY

(7/29)	Surname	Code
7/31	Holt	500
	Griswold	500
		140
		140
7/30	Talbert	800
		800
7/31	Selfridge	130
7/31	Lamb	
7/31	Kirkemo	
		~~110~~
8-3	gad	220
		~~300~~
		225

Tungsten Mountain Mining Company
311 Securities Building
Seattle 1, Washington

JUL 31 1959

Re: Docket No. DMEA-4795 (Tungsten)
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E1158

Gentlemen:

Enclosed is a certification of discovery or development that covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, and of the certification, all minerals mined or produced from December 3, 1957, to December 3, 1968, are subject to the Government's percentage royalty as set forth in the contract until the sum of $23,845.87 is repaid to the Government. This sum includes $432.00 which was the Government's contribution under a previous contract, No. Idm-E707 (Docket No. DMEA-3180), and is so provided for in Article 10 of the subject contract.

DMEA 3180

Royalty payments should be made to the Executive Officer, OME Field Team, Region II, 420 Custom House, 555 Battery Street, San Francisco 11, California, by the purchaser with checks drawn payable to the Office of Minerals Exploration (the successor to the Defense Minerals Exploration Administration). The purchaser should be advised to deduct royalties from the amount due on each shipment and send the check directly to the Executive Officer. Each check should be accompanied by suitable sales evidence - such as copies of settlement sheets - showing the name of the purchaser, the quantity and grade of the products sold, and the price and charges, certified to be correct by the purchaser.

You are requested to notify the Executive Officer of any changes in ownership or production rights that may have any effect on the Government's right to its percentage royalty. Your attention is called particularly to Article 2(c) of the contract relating to

43683

the Government's right to a percentage royalty on production. Also when production starts, please notify the Executive Officer. Thereafter, if production ceases for any extended period, please notify him accordingly at six-month intervals.

Sincerely yours,

Frank E. Johnson

Acting Director

Enclosure

SPHolt/gla 7-29-59

cc to: Director's Reading File
Operating Committee
Division of Contract Adm. & Audit
OME Field Team, Region II (2)
R. W. Holliday, USEM
H. Kirkemo, USGS
Mr. Holt
Docket DMEA-3180
Docket DMEA-4795
Chron

MME Form 7
(10-58)

File in Docket
DMEA-3180
Idm-E707

OFFICIAL FILE COPY

Date	Surname	Code
7/29	Holt	500
	Frawley	500
		140
		140
7/30	Talbot	800
		130

110
220
225

Tungsten Mountain Mining Company
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA-4795 (Tungsten)
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E1158

Gentlemen:

Enclosed is a certification of discovery or development that covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract as amended and of the certification, all minerals mined or produced from December 3, 1957, to December 3, 1968, are subject to the Government's percentage royalty as set forth in the contract until the sum of $23,845.87 is paid. This sum includes $432.00 which was the Government's contribution under a previous contract, No. Idm-E707 (Docket No. DMEA-3180), and is so provided for in Article 10 of the subject contract.

Royalty payments should be made to the Executive Officer, OME Field Team, Region II, 420 Custom House, 555 Battery Street, San Francisco 11, California, by the purchaser with checks drawn payable to the Office of Minerals Exploration (the successor to the Defense Minerals Exploration Administration). The purchaser should be advised to deduct royalties from the amount due on each shipment and send the check directly to the Executive Officer. Each check should be accompanied by suitable sales evidence - such as copies of settlement sheets - showing the name of the purchaser, the quantity and grade of the products sold, and the price and charges, certified to be correct by the purchaser.

You are requested to notify the Executive Officer of any changes in ownership or production rights that may have any effect on the Government's right to its percentage royalty. Your attention is called particularly to Article 2(c) of the contract relating to

43683

11-12-56

In view of the [illegible] of the
[illegible] and paste pottery [illegible] and
[illegible] the [illegible] [illegible] made,
it appears [illegible] and [illegible]
[illegible]

IN REPLY REFER TO:

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

RECEIVED NOV 5 1956 DMEA

November 2, 1956

Re: DMEA 3180, Idm-E707
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Tungsten

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Final Report.

The contract approved the expenditure of $32,208.00 searching for tungsten-bearing tactite east of a mine. Only bulldozing, costing $576.00, was done as no material of ore grade was found by the contract work.

The examiners and the Field Team recommend that no certificate of discovery be issued.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

Docket

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

Date October 29, 1956

DMEA Docket No. 3180
DMEA Contract No. Idm-E707
Commodity (Tungsten)
Name of applicant Tungsten Mountain Mining Co.
Name of property Hilltop Mine
Location of property Churchill County, Nevada
Estimated cost of project

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Review of Final Report
(Application, Field Team Report, etc.)

1. Date of subject document: Oct. 10, '56. 2. Date received by reviewer: Oct. 25, '56.

3. Prior reports on this property known to reviewer: Yes [ ] No [X]

4. Prior reports on nearby properties known to reviewer: Yes [ ] No [X]

5. Information available on past production: Yes [ ] No [X]

6. Other pertinent factors known to reviewer: Yes [ ] No [X]

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location [ ]
   b. Ownership [ ]
   c. Evidence of mineralization [ ]
   d. Geology [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. [ ]

9. Action advised:
   a. Obtain information from applicant [ ]
   b. Refer to Field Team [ ]
   c. Denial [ ]
   d. Agree with Field Team [X]
      1. Consult with Mr. _____ at _____ AEC office.
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [ ]

10. Remarks: (Use back of page if necessary)

I concur in the field team recommendation that no certificate of discovery be issue. Copy retained 400

R. W. Holliday

R. W. Holliday

[illegible]

[illegible] EXAM REPORT

Date 10-18

deferred to:

1. ~~[illegible]~~
2. ~~[illegible]~~
3. ~~[illegible]~~
4. ~~Docket Control Mails and Files~~
5. Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. Final. Little work done - Results negative
2.
3.
4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Robert W. Adams

R m E a

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

RECEIVED
OCT 12 1956

1605 Evans Avenue
Reno, Nevada

October 10, 1956

Memorandum

To: Operating Committee, DMEA, Interior Bldg.
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E 707

Enclosed are four copies of our Final Report on subject Contract by R. G. Reeves, Geological Survey, and H. W. Jones, Bureau of Mines.

Roscoe Smith and I concur in the recommendation that a certificate of discovery should not be issued.

S. Ricker

Encls.

Reviewed by
DMEA OPERATING COMMITTEE
10-17-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

RECEIVED
OCT 1 0 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

FINAL REPORT

Final F.T. Rpt.

DMEA-3180, Contract Idm-E707 (Tungsten)
Tungsten Mountain Mining Company
Hilltop mine, Churchill County, Nevada

by

H. W. Jones
U. S. Bureau of Mines

R. G. Reeves
U. S. Geological Survey

October 4, 1956

Reviewed by
DMEA OPERATING COMMITTEE
10-17-56
(date)

RECEIVED
OCT 12 1956

CONTENTS

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Introduction	1
Conclusions and Recommendations	2
Location, Accessibility, and Local Facilities	2
Property	3
The DMEA Project	4
Geology	6
Ore Deposits	7
Sampling	8
Ore Reserves	9

ILLUSTRATIONS

Figure 1. . . . . Index Map

2. . . . . Claim Map

3. . . . . Geologic Sketch Map of Hilltop prospect

4. . . . . Geologic Map of the Hilltop mine

5. . Geologic Map of Adits No. 1 and 2, Hilltop mine

INTRODUCTION

The Hilltop mine, Churchill County, Nevada was explored by the Tungsten Mountain Mining Co., a Nevada corporation, 511 Securities Building, Seattle 1, Washington, in cooperation with the Defense Minerals Exploration Administration, docket DMEA-3180, contract Idm-E707 dated September 13, 1954, authorizing expenditures of $32,208.00, of which only $576.00 was spent.

The project was planned to explore by bulldozer trenches for tungsten-bearing limestone beds east of the mine workings, and drift and crosscut on the tungsten-bearing beds if found. Work was started October 10, 1954; 550 feet of trenches were completed without finding tungsten-bearing bodies of ore grade or size. The contract was amended to explore the downward extensions of already known surface ore bodies by diamond drilling and driving an adit. No drilling or crosscutting was done under the DMEA contract; however, 115 feet of drilling, from which virtually no core was recovered, was done by the operators. When no further effort was made to explore the property, termination was recommended. A notice of termination was submitted to the operator on July 23, 1956.

CONCLUSIONS AND RECOMMENDATIONS

No ore was discovered as a result of the small amount of work performed with Government assistance. This does not preclude the probability of finding additional ore by further exploration. Diamond drilling and crosscutting authorized by Amendment No. 1 are the most logical means of exploring the property.

As no ore was produced from the contract area the Government is not entitled to royalties. It is recommended that no certificate of discovery be issued, and that no Government assistance be granted until such time as the operators demonstrate ability to accomplish a project.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Hilltop mine claims are in T. 19 N., R. 37 E., M.D.B.&M., Clan Alpine mining district, Churchill County, Nevada. They are near the summit on the east flank of the Clan Alpine mountain range at altitudes of 6,000 to 7,500 feet.

The mine is reached by travelling east from Fallon along U. S. Highway 50 for 58 miles to Eastgate. Turn north on an improved dirt road through Clan Alpine Valley for 28 miles to the mine road, then left, past a large ore bin and up a progressively steeper road for 4 miles to the mine. The latter part of the road has grades of 34 percent and is negotiable with extreme difficulty

in standard gearshift cars. Winter storms block travel to the mine area for short periods but are not severe enough to seriously impede mining operations.

No manpower and housing are available in the district. Trailer houses capable of accommodating a crew of eight or ten men are currently being used at a nearby camp. Necessary equipment, supplies, and personnel may be obtained in Fallon or in Reno.

A spring discharging about 100 g.p.m. is located at the campsite about 7 miles from the mine and furnishes water for mine and domestic usage.

Power is supplied by diesel- and gasoline-driven engines.

PROPERTY

Tungsten was discovered by G. G. Staggs and A. J. Quilici, who located the initial claim on November 25, 1951. It was sold to Bennett W. Porter, 511 Securities Building, Seattle 1, Washington, in the spring of 1953. The claim name was changed to the Hilltop, and 17 additional claims known as the Porter Group 1 to 5, the Hedi Group 1 to 6, the Garnet Group 1 to 5, and a placer claim were located. Included in the Government loan were

the Porter 1 to 5, the Hedi Nos. 5 and 6, and the Hilltop claim. Considerable preliminary bulldozing was done on the Hilltop and Porter No. 1 claims and two drifts and stopes totalling about 250 feet of workings were driven. Approximately 800 tons of 1.5 - 2.5 percent WO_3 ore has been shipped from the mine. No mining has been done since the summer of 1955.

THE DMEA PROJECT

The project was designed to explore for the downward continuation of scheelite-bearing limestone beds between the known ore and the underlying granite. Stage II, to be undertaken upon the successful results of Stage I, was to drive an adit 850 feet northwest under the scheelite-bearing bodies and crosscut at mutually agreed on locations.

The scheelite-bearing limestone beds were not found by Stage I exploration, and it was concluded that Stage II was not warranted.

Amendment No. 1 was subsequently requested and granted on April 29, 1955. Stage II was changed to provide for four diamond drill holes, each from 200 to 300 feet long and aggregating not over 1,000 feet; to intersect the projected faulted segment of the Discovery ore body. Stage II provided for the use of the remaining funds to be determined after completion of Stage II as agreed in advance by the operator and the Government.

Amendment No. 1 also excluded from the contract the area above the flat fault plane, from which all mine production had been obtained.

Diamond drilling by a small drilling company commenced June 11, 1955. Two holes were started; the first was drilled to a depth of 35 feet, and the second to 80 feet, before being abandoned. Core recovery was negligible and payment by DMEA was not claimed by the operator. The operator negotiated with other contractors to complete the drilling, but without success.

Amendment No. 2 provided for a recess beginning December 1, 1955 and ending not later than May 15, 1956, and for extension of the completion date to September 13, 1956. No further work at the mine had been done when an inspection was made on June 23, 1956. Recommendations that the contract be terminated were made by the Field Team and a notice of termination was submitted to the operator for signature.

The quality of work performed under the contract was considered satisfactory, although the operator completed only a small part of the project and it was terminated with disappointing results.

Expenditures

Total approved cost ----------	$32,208.00
Bulldozing, 48 hrs. @ $12/hr. -------	576.00
Government's share of cost ----------	432.00
Government's share unexpended ------	23,769.00
Value of Production ----------	None

No equipment was purchased under the terms of the contract.

GEOLOGY

In the area of the Hilltop claims, the Clan Alpine Mountains consist of shale, argillite, and limestone that have been intruded by a stock of granite.

The principal sedimentary rock is a shale unit about 2,000 feet thick that strikes north and dips 40° - 70° E. It is thin-bedded near the base; toward the top it contains a few limy beds. Small bodies of tactite have been formed along limy beds near the granite stock.

The intrusive stock ranges in composition from granite to granodiorite and is about 4,000 feet in diameter.

The sedimentary and intrusive rocks are overlain by andesite and rhyolite tuffs, flows, and agglomerates of probable Tertiary age which strike north and dip gently west.

Near the contact of the sedimentary rock with the granite the shales are metamorphosed to hornfels, the limy beds are marbellized, and the beds are rotated in blocks having divergent strikes.

ORE DEPOSITS

The tungsten ore bodies are small irregular tactite layers which occur interlayered in marble and hornfels. In some places as much as a third of the rock is tactite. The tactite layers range from 1 to 12 inches in thickness, and are composed principally of quartz, epidote, and garnet.

Scheelite, the only tungsten mineral observed, occurs disseminated in tactite and also in seams along fractures in tactite and hornfels.

Ore bodies occur in two different localities on the Hilltop claim (fig. 3), one near the discovery monument and another at a lower altitude east of the discovery monument.

The Discovery ore body is a tactite and hornfels layer as much as 5 feet thick which strikes northeast and dips about 60° - 70° SE with the regional strike and dip of the sedimentary beds at a distance of about 400 feet from the granite contact. U. S. Bureau of Mines samples give an average grade of 1.53 percent WO_3 across a width of 2.25 feet.

In the Lower ore zone two tactite and hornfels layers as much as 10 feet wide in a zone 40 feet wide strike west and dip about 70° N. Here the scheelite-bearing tactite is about 200 feet from the granite contact. Samples averaged 0.96 percent WO_3 across a width of 5.0 feet.

SAMPLING

Samples were taken of tungsten-bearing material exposed in the shallow surface openings. Details regarding them follow:

Sample No.	% WO_3	Description
1616	0.60	Cut across 18 inches silicated limestone in disc. cut.
1617	0.08	Cut across 5 feet, south fraction in trench at station C.
1618	0.01	Cut across 5 feet, north fraction in trench at station C.
1619	1.38	Cut across 5 feet in trench at station 68.
1620	1.50	Cut across 5 feet in lowest trench.
1621	2.00	Chip across 12 feet in trench 10 feet above disc. cut.
1622	1.05	Cut across 5 feet in trench north of cut C.

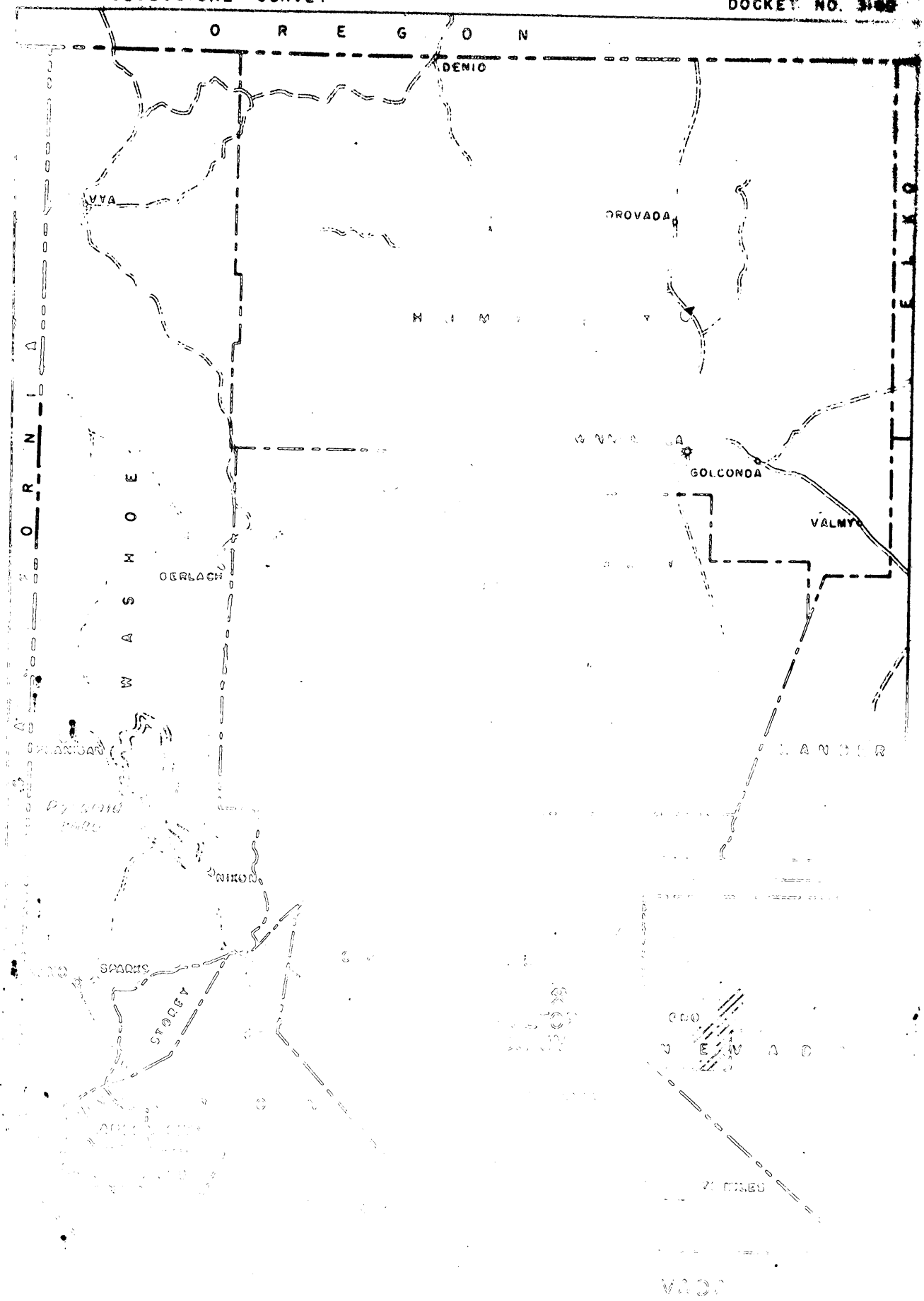
No mineralized material was encountered as a result of work under the contract and no further samples were taken.

ORE RESERVES

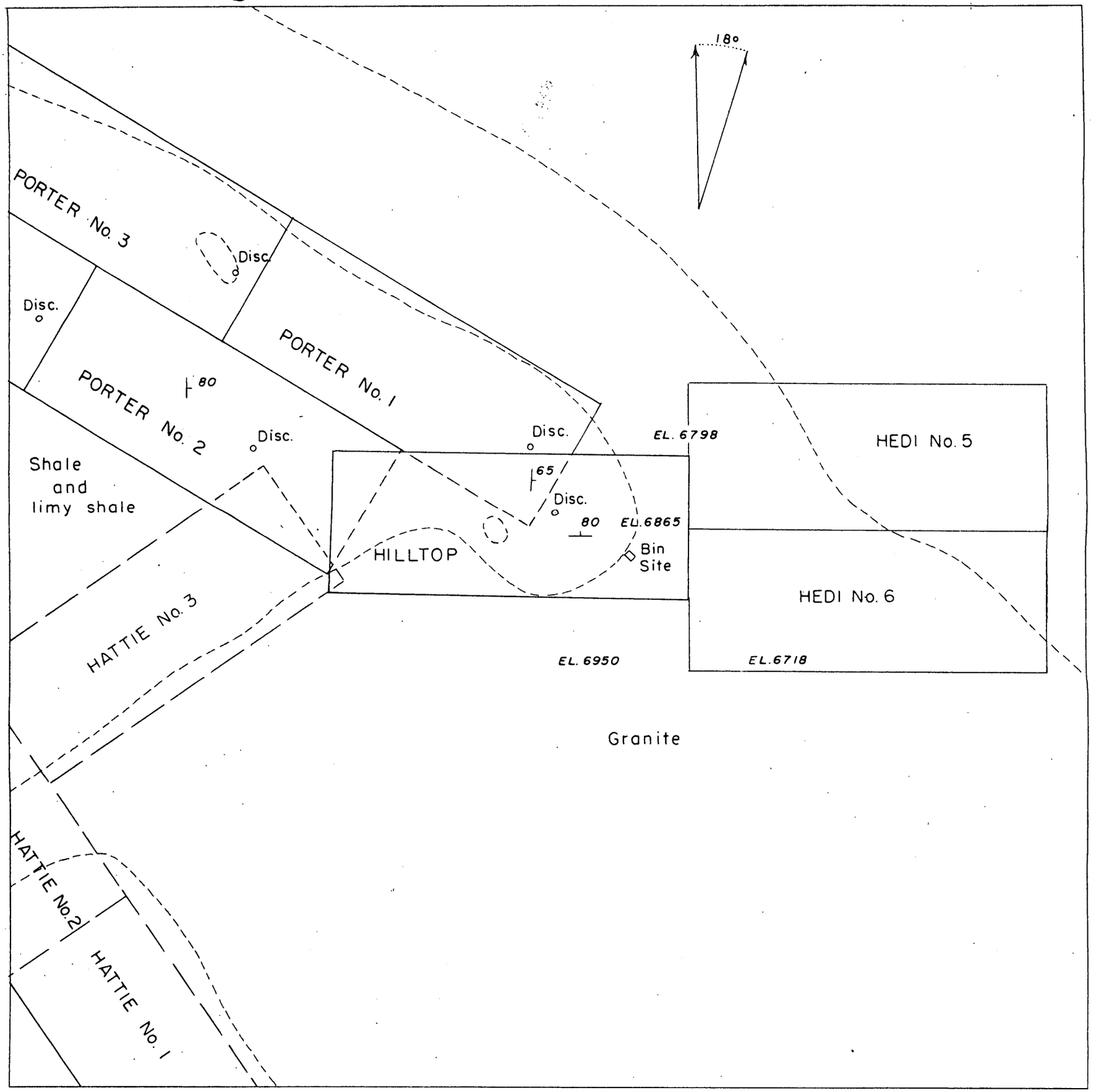
There are no measured ore reserves on the Hilltop claim. A few tons of ore containing 1.0 to 1.5 percent WO_3 are indicated in the prospect pits at both exposures. A few hundred tons of ore may be inferred along the downward continuation of both ore bodies.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3[illegible]



RECEIVED
OCT 4 [illegible]



After Company maps

FIG. 2 MAP OF HILLTOP AND ADJOINING CLAIMS

0 500 1000 FEET

RECEIVED
OCT 1 2 1956

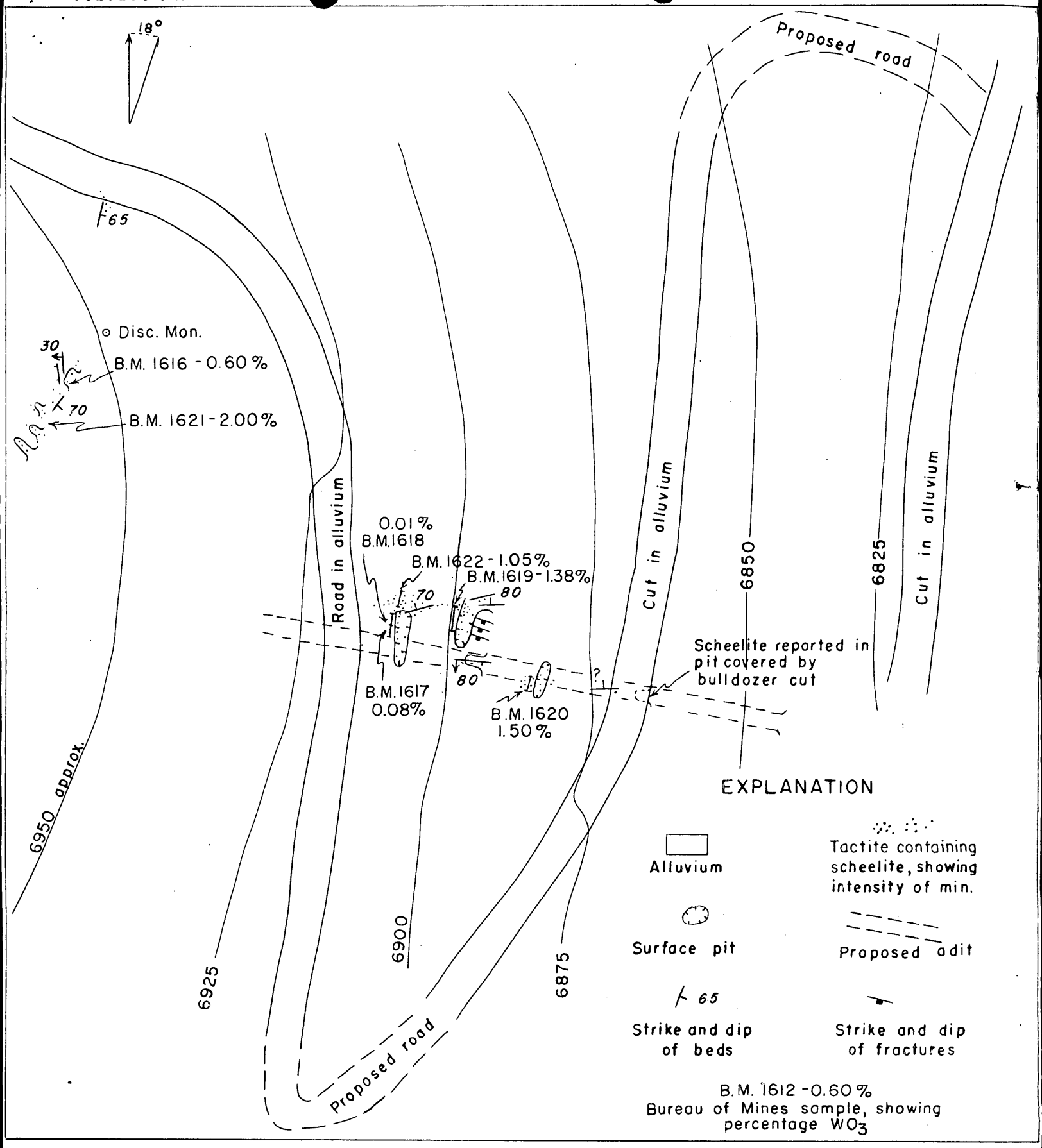


FIG. 3 GEOLOGIC SKETCH MAP OF HILLTOP PROSPECT

CHURCHILL CO. NEVADA

0 40 80 FEET

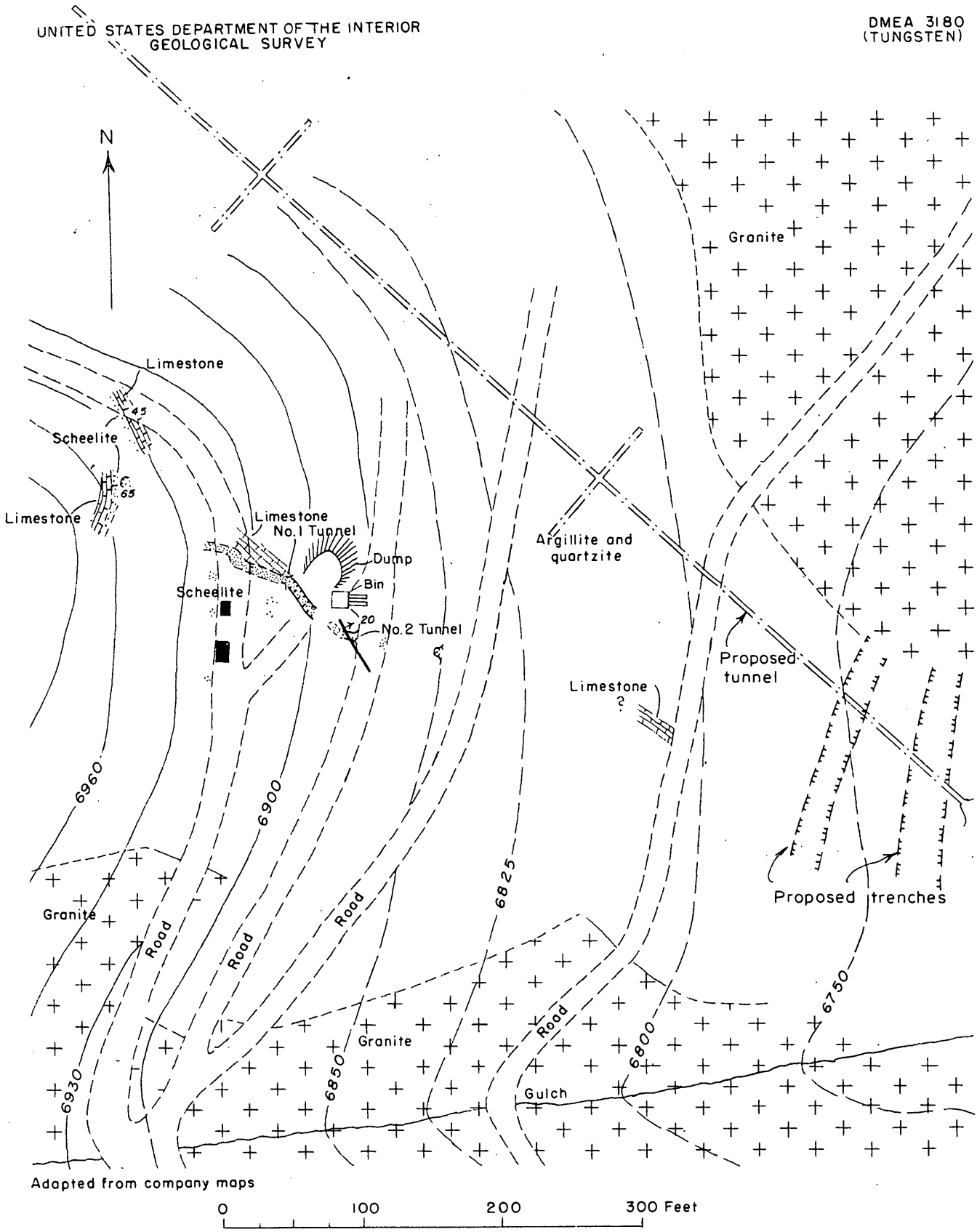
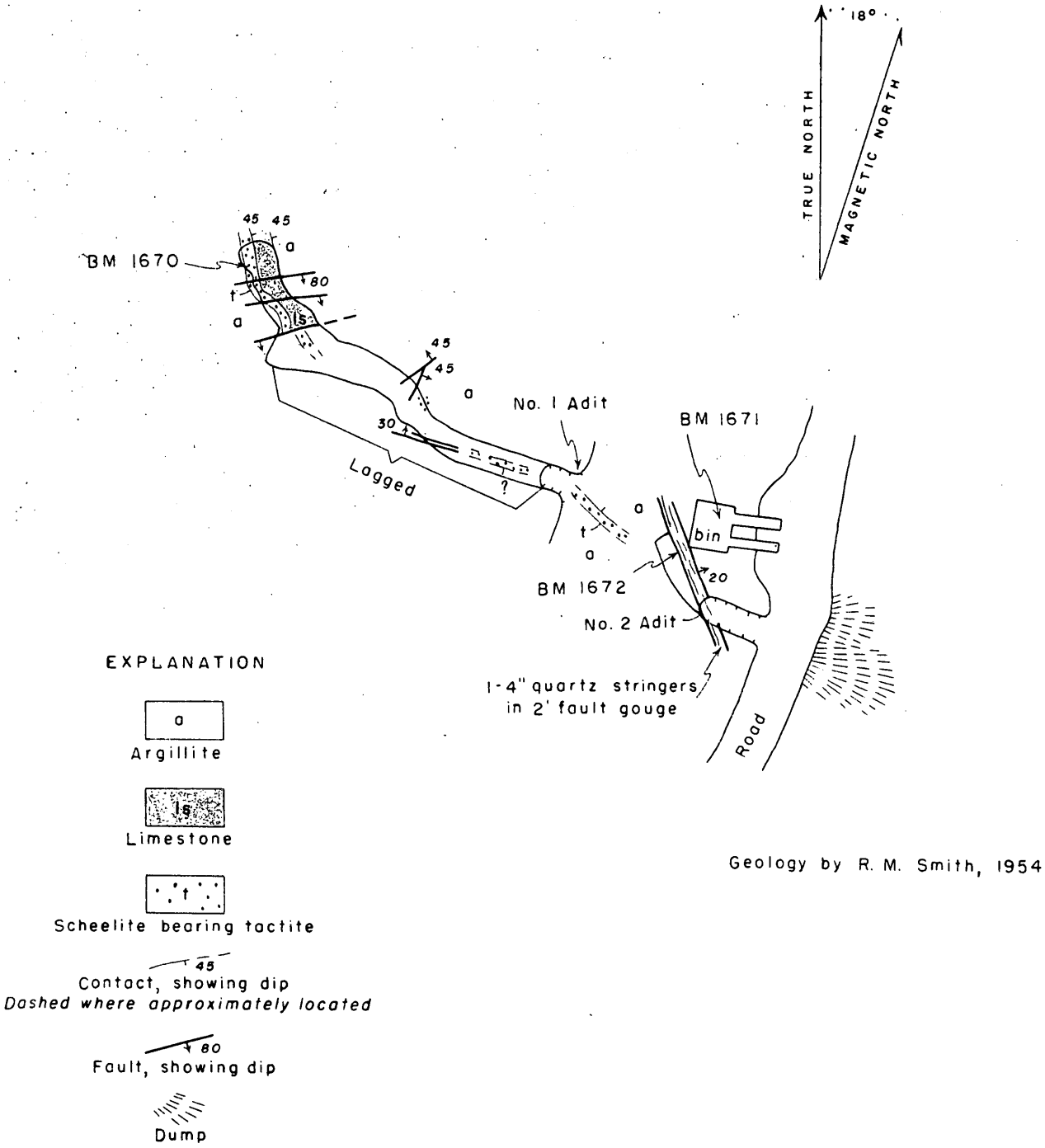


FIGURE 4. GEOLOGIC MAP OF THE HILLTOP MINE, CHURCHILL COUNTY, NEVADA



Geology by R. M. Smith, 1954

GEOLOGIC MAP OF ADITS NO. 1 AND NO. 2, HILLTOP MINE
CHURCHILL COUNTY, NEVADA

40 0 40 80 Feet

Figure 5

DMEA

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

RECEIVED
SEP 19 1956

1605 Evans Avenue
Reno, Nevada

September 17, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA 3100 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E 707

Enclosed are four copies of a letter from the Operator's representative, Arthur Lakes, which I believe will serve as the Operator's final report on subject contract.

S. Ricker

Encls.

BUREAU OF MINES
WASHINGTON, D. C.

SEP 19 8 58 AM '56

NELSON, B. C.
ROYAL BANK BUILDING
PHONE 20

SPOKANE, WASH.
DAVENPORT HOTEL
PHONE MAIN 2121

ARTHUR LAKES
MINING ENGINEER

RECEIVED
SEP 10 1956

September 6, 1956

United States Dept. of the Interior,
Defense Minerals Exploration Adm.,
WASHINGTON 25, D. C.

Re: Docket No. DMEA 3180 (Tungsten)
Tungsten Mountain Mining Co.,
Hilltop Mine,
Churchill County, Nevada.
Contract No. IDM-E707

Gentlemen:

The July 26th. 1956 termination of above contract has been referred to me from company's Head Office, 511 Securities Bldg. Seattle, Washington.

This contract was Amendment of DMEA-3180 filed April 21, 1954 which was granted for bulldozing and tunnel work. The contract was disallowed after 48-hours Bulldozing had failed to show adequate tungsten structures below company's productive exploratory tunnel.

By suggestion of DMEA Field Team, an amended application was filed January 24, 1955 to drill four holes from surface, aggregating 1000-feet, to test downward extensions of the disclosed ore structure @ 150-170-225 & 270-feet under exploratory tunnel.

Drilling was started June 13th. 1955 but contractor abandoned July 2nd. because near surface rock conditions defeated progress @ 80-ft. in one hole and @ 34-ft. and 35-ft. in two others.

The drill project was viewed on the ground by experienced Drill contractors, Palmer & Decker, Bishop, California who stated that the ground could be drilled, but at considerable greater cost than amount allowed by DMEA. Their representative stated that, if they could arrange to get crew and equipment from other projects, they would quote the company. Repeated phone calls and letters failed to establish further contact with this firm and phoned requests to other drillers returned negative interest in difficult contract of this constricted size.

The above compelled drill project abandonment and the company proceeded with a lower tunnel without DMEA participation.

(2) No ore reserves were disclosed from DMEA work. (3) There is no cost of reporting, accounting and winding-up actions.

(4) Because all ore disclosed and shipped came from Tungsten Mountain Co's original exploratory tunnel prior to any DMEA participation, it was company's contention that DMEA does not participate in these returns. This was outlined in our letter January 24, 1955 to

Open Final

Mr. S. Rickert, DMEA Executive Officer, then at 420 Custom House, 555 Battery St., San Francisco 11, California, in which company requested that it be released from provisions of Annex II. I understand that this was done.

Very truly yours,

Arthur Lakes

(Arthur Lakes)

For Tungsten Mountain Mining Company.

5-copies

RECEIVED
SEP - 4 1956

420 Custom House
555 Battery Street
San Francisco 11, California

August 30, 1956

Mr. S. Ricker, Executive Officer
Defense Minerals Exploration Administration
1605 Evans Avenue
Reno, Nevada

Re: Idm-8707, DMEA-3180
Tungsten Mountain
Mining Company

Dear Mr. Ricker:

Reference is made to Interim Report dated May 10, 1955, in connection with subject contract, and prepared by Mr. Henry W. Jones, Mining Engineer.

In the last paragraph of Interim Report, Mr. Jones makes the following statement:

> "A recent 30-ton shipment of scheelite ore was made from the present workings to the Yancy Mill at Gabbs, Nevada. The average grade ore was 1.2 percent WO_3."

No royalties have been received by the Finance Officer from subject operator, and I would appreciate you advising if any royalties are due on the above mentioned shipment.

Sincerely yours,

"(SIGNED) GEORGE MAVOR"

George Mavor
Auditor

Copy to: Jay L. Chambers

Contract No. Idm-E 707

Docket No. 9160

DEPARTMENT OF THE INTERIOR

Terminated contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
Sept. 13, 1954	II	Nevada	Tungsten

Name and Address of Operator: Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada

	Reserve	Obligation
Prior Amount	0	$24,201.00
Increase	0	0
Decrease	0	$23,769.00
Revised Amount	0	$ 432.00

Remarks:

WMC

(Name)

Robert B. Adams, Chief
Operations Control and
Statistics Division

(Title)

Date Delivered to Bureau of Mines, Washington 8/8/56

98963

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

RECEIVED
JUL 30

1605 Evans Avenue
Reno, Nevada

July 26, 1956

Mr. Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Bldg.
Seattle 1, Washington

Re: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Porter:

We are enclosing a Notice of Termination on referenced contract. Will you please render promptly the reports as called for under the contract.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Encl.

SRicker:gh
cc: Opr. Com., DMEA, Wash., D.C.
Finance Off, Reg. II
Geo. Mavor
R. M. Smith
File

DOCKET
Surname:
Chapman
Talbot
Selfridge
K J Simon

400

JUL 23 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3180, Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Ricker:

Enclosed are the original and three 1/ copies of a "Notice of Termination" of the above-referenced contract, signed by the Administrator for the Government.

If the terms and conditions of this "Notice of Termination" are satisfactory to you, please make the usual distribution. If any part thereof does not meet with your approval, all copies are to be returned to this office, together with any proposed changes for consideration.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

P. F. Yopes
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
Thor Kiilsgaard, USGS
R. W. Holliday, USBM
FT, Reg. 2

TLChapman/ls
7/20/56

P 1/ Operator's, Finance Office, and Field Team copies, with two extras.

1/

R.C.R.

DMEA

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

RECEIVED
JUL 13 1956

1605 Evans Avenue
Reno, Nevada

July 13, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Work which was to start not later than May 15, 1956 in accordance with Item 1 of Amendment No. 2 of contract has not been resumed and we recommend that the contract be terminated.

Expenditures on part of the Government have been only $576.00. The Operator has not recently shown serious intentions of completing the work, and we believe it would be good Government policy to sever business connections with the Tungsten Mountain Mining Company. The company would seem to be more of a promotional organization than one interested in mining.

S. Ricker

DOCKET
SURNAME

Hoff
Chapman
Yoo
Nelson

July 13, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Summary of Project - Notice of Termination
Docket No. DMEA X180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

This Division hereby concludes that as the Operator has shown little interest in completing the work as outlined in the contract and amendments thereto the contract should be terminated.

The description of the property, work done and results obtained follows:

Operator: Tungsten Mountain Mining Company
Bennett W. Porter, President and Treasurer
511 Securities Building
Seattle 1, Washington

Property: The property consists of 8 unpatented lode mining claims as follows:

Claim No.	Book No.	Page No.
Porter No. 1	27	67
Porter No. 2	27	67
Porter No. 3	27	68
Porter No. 4	27	68
Porter No. 5	27	69
Hodi No. 5	27	223
Hodi No. 6	27	223
Hilltop	27	593

The claims are recorded in the Court House at Fallon, Churchill County, Nevada. The property is owned by the Operator by purchase and agreement transferring the royalty rights of Earl Elliott to the Operator.

Contract: Dated September 13, 1954, for bulldozing, diamond drilling and drifting, amounts to $32,268.00, Government participation 75 percent, $24,201.00.

Amendment No. 1, changed location and amount of different types of work, with no increase in the cost. The time for completion was changed from 8 months to 18 months.

Amendment No. 2, granted a recess from December 1, 1955, to May 15, 1956, and completion date was extended to September 13, 1956.

Work Completed: Bulldozing access road and trenching, 48 hours at $12.00 per hour, $576.00, Government share 75 percent $432.00.

Geology: Limy and schistose beds are bordered by rhyolite and andesite flows and intruded by a granite plug. Along the contact zone tactites have been formed which show scheelite mineralization. The area is cut by a number of faults, indicated to be pre-mineral and post-mineral. The mineralization in the tactite zone is irregular and spotty.

History & Production: This area was located and prospected in the early days for gold and silver. In 1953 the occurrence of scheelite was noted and the property was taken over by the Tungsten Mountain Mining Company. In 1953 and 1954 prior to the date of contract 17,500 tons of rock were mined from the mineralized zone. By hand sorting and selective mining 533 tons of ore were shipped to Bishop, California, and sold for a net return of $41,046.00 to the Operator or approximately $77.00 per ton, which would indicate that the ore would run about 2 percent tungsten trioxide.

An adit driven by the Operator on company account about 100 feet below the above ore zone and 72 feet long failed to find any ore of a minable grade.

Comments: The Operator has shown very little interest in carrying out the terms of the contract and amendments thereto. Amendment No. 2, set the end of the recess at May 15, 1956. An interim inspection was made on June 25, 1956, and no work on the contract had been done since the inspection on June 23, 1955.

Recommendations: Due to the apparent lack of interest by the Operator in carrying out the terms of the contract and amendments thereto, this Notice of Termination is being issued.

T. L. Chapman, Acting Chief
Iron and Ferro-Alloys Division

TLChapman/foc
7/13/56
cc to: Docket
Code 400

400

DOCKET
SURNAME
Holt
Chapman

July 13, 1956

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Iron and Ferro-Alloys Division, DMEA

Subject: Preparation of Notice of Termination
Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Transmitted herewith is a draft of a proposed Notice of Termination for the captioned project for your use in preparing in final form.

T. L. Chapman, Acting Chief
Iron and Ferro-Alloys Division

Attachment

TLChapman/foc
7/13/56
cc to: Docket ✓
Code 400

NOTICE OF TERMINATION

To: Tungsten Mountain Mining Company, a Nevada Corporation
511 Securities Building
Seattle 1, Washington

Operator under Exploration Project, Contract No. Idm-E707
Docket No. DMEA 3180, dated September 13, 1954.

The United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereby terminates the subject contract, under the terms thereof (which preserves the Government's rights to a percentage royalty), on the following ground:

In the opinion of the Government you have failed to prosecute operations pursuant to the terms of the contract, in that no work has been performed on the project as outlined in contract and amendments since June 23, 1955, and the time specified in Amendment No. 2 for renewal of work after recess May 15, 1956, has passed.

Upon the receipt of this notice you are required, as provided in said contract, to render to the Government a full and final report and final accounting of your operations under the contract and of your expenditures of money on account thereof.

Any work prosecuted or costs incurred by you after the receipt of this notice shall be for your sole account, except for the cost of any reports, accounts and wind-up and settlement actions provided for in the contract.

All rights of the Government with respect to certification of discovery or development, percentage royalty and lien for payments, as provided in the contract, are preserved.

Dated this _____ day of _____, 1956.

THE UNITED STATES OF AMERICA
By _____
Administrator, Defense Minerals
Exploration Administration

ACTION IN INCE[illegible]
ON FINAL FIELD EXAM REPORT
Date 7-6

Referred to:

1. ~~[illegible]~~
2. ~~[illegible]~~
3. ~~[illegible]~~
4. ~~Docket Control Mails and Files~~
5. ~~[illegible] Division~~
6. Docket Control Mails and Files

Note comments in report regarding:

1. Termination recommended
2.
3.
4.

and take appropriate action.

- - - - - - - - - -

Action taken by Division:

Robert E. Adams

DMEA

RECEIVED
JUL 6 - 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date 7/3/56

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Wash., D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

Attached are four copies of Interim Report on

Docket No. DMEA-3180

Contract No. Idm-E707

Commodity Tungsten

Operator Tungsten Mountain Mining Co.

Property Hilltop Mine, Churchill County, Nev.

Walter Bank
By Henry W. Jones

Dated 7/3/56

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

INTERIM REPORT

RECEIVED
JUL 6 - 1956

DMEA-3180 (Tungsten) July 3, 1956
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

The Hilltop mine was inspected June 25, 1956 to determine if additional work had been completed under terms of the DMEA contract, amendment No. 1.

No one was at the mine and no additional work has been done on contract since the inspection on June 23, 1955. Some non-contract work consisting of a crosscut 72 feet long from a point 100 feet below the ore bin on a N. 80° W. bearing has been completed, but no mineralization was noted in the loose hornfels formation. Very little interest has been shown by the operators for continuing work under terms of Amendment No. 1. Amendment No. 2 provided for suspension of work ending not later than May 15, 1956.

It is recommended that the contract be terminated.

Walter Bank, USBM Henry W. Jones, USBM

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

March 23, 1956

Memorandum

To: Catherine Curtin, Statistics and Control Division, DMEA

From: Hazel Berry, Operating Committee, DMEA
By ES7

Subject: Amendments to Contracts

Attached are the following docket copies of amendments to contracts which have been reviewed and approved by the Commodity Divisions and the Contract Administration and Audit Division. These amendments did not require clearance by Legal.

Tungsten Mountain Mining Co., DMEA-3180, Idm-E707, Amendment No. 2.

Carolina Tungsten Mining Co., DMEA-3742, Idm-E869, Amendment No. 1.

John Phillips and Jim McKinney, Jr., DMEA-3947, Idm-E894, Amendment No. 1.

Attachments-3

B

2 m Ea

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

RECEIVED
FEB 29 1956

1605 Evans Avenue
Reno, Nevada

February 27, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Attached are the Government, Docket, and Division executed copies of Amendment No. 2 to above referenced contract.

The remaining copies have been distributed in the customary manner.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.
FEB 29 8 32 AM '56

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

RECEIVED
FEB 23 1956

1605 Evans Avenue
Reno, Nevada

February 20, 1956

Mr. Bennett W. Porter,
Tungsten Mountain Mining Co.
511 Securities Bldg.
Seattle, 1, Washington

Re: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Porter:

We are enclosing the original and five copies of proposed amendment No. 2 to above contract signed by the Executive Officer, Region II, Defense Minerals Exploration Administration for the Government.

If the terms and conditions of this amendment are satisfactory to you, all six copies should be signed by your firm. The copy marked "Operator's Copy" should be retained by you and the original and the other four copies should be returned to this office.

If any part of this contract does not meet with your approval, the original and all copies should be returned with your suggested changes.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Encl.
SRicker:gh
cc: Opr. Com., DMEA, Wash., D. C.
Finance Off., Reg. II
Geo. Mavor
R. M. Smith
File

RmEa

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

RECEIVED
JAN 27 1956

1605 Evans Avenue
Reno, Nevada

January 25, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From:2 Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Attached are two copies of letter dated January 20, 1956 from Mr. Bennett W. Porter in reply to my letter of December 14, 1955 requesting his plans for resuming work on the contract.

Attached also are two copies of our letter dated January 25, 1956 requesting additional information regarding his plans and suggesting a recess amendment until on or before May 1, 1956. The winter is exceptionally severe this year, and it is doubtful if the property will be accessible for drilling much before that date.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.
JAN 27 8 31 AM '56

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

RECEIVED
JAN 27 1956

1605 Evans Avenue
Reno, Nevada

January 25, 1956

Mr. Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Bldg.
Seattle 1, Washington

Re: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Porter:

Reference is made to your letter of January 20, 1956 in reply to my letter of December 14, 1955 relative to status of cited contract.

In your reply you did not request a recess on the work proposed under the contract. You will note that in amendment No. 1 completion time was extended from 8 months to 18 months from date of original contract. The completion date is, therefore, March 13, 1956.

If it is your serious intention to complete the work under the amendment No. 1, we can draw up a recess amendment and at the same time extend the completion date.

Please advise us promptly if you wish an amendment No. 2, granting a recess and an extension of completion date. Would suggest that the recess period be from December 1, 1955 to on or before May 1, 1956 owing to severe winter conditions existing at the property this year. This should give you plenty of time to arrange for a responsible drilling company to do the work.

Very truly yours,

S. Ricker, Executive Officer
DMEA Field Team, Region II

SRicker:gh
cc: Opr. Com., DMEA, Wash., D. C.
Finance Off., Reg. II
Geo. Mavor
R. M. Smith
File

GOLDSTONE

MINING COMPANY

MINE AT
GOLDSTONE MOUNTAIN
P O SALMON, IDAHO

511 SECURITIES BUILDING
SEATTLE 1, WASHINGTON

B. W. PORTER
PRESIDENT AND TREASURER
ALLEN F. KNIGHT
VICE PRESIDENT
EMIL MOTTMAN
SECRETARY

RECEIVED
JAN 27 1956

Ricker JR 1/23/56

January 20, 1956

Mr. S. Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Dear Mr. Ricker:

In answer to your letter of January 14 we have tried many times to get Mr. Palmer of Palmer & Decker to drill our property in accordance with the amendment filed with your office. Arthur Lakes, our engineer, has finally given up on Palmer and suggests that we get in touch with a responsible drilling contractor to finish the job started by Dave French of Wallace, Idaho. As you know, Dave French was unable to complete the three holes that he started and gave up the job.

Due to the cold weather and the fact that we must haul water in barrles for the drilling, we would be unable to keep the water from freezing at this time. Just as soon as the weather moderates we will continue to drill.

We are now driving a 200-foot tunnel below fault A and plan to mine the known ore above from this lower tunnel and we feel it may be possible to do some short hole drilling from this level at our own expense in the hopes that we may cut the vein at this elevation. This will in no way, however, deter us from drilling as per our original DMEA contract.

I have been very ill the last 6 weeks and that is the reason I have not answered sooner and hope I have not inconvenienced you. Thanking you for your splendid cooperation, I remain

Yours very truly,

TUNGSTEN MOUNTAIN MINING CO.

B. W. Porter

B. W. Porter
President

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

RECEIVED
DEC 16 1955

1605 Evans Avenue
Reno, Nevada

December 14, 1955

Mr. Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Bldg.
Seattle 1, Wash.

Re: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Porter:

The completion date of your amendment No. 1 to above referenced contract was set at 18 months after date of original contract, or March 13, 1956.

Since the amendment, except for an attempt at diamond drilling, no work has been done by your company toward completion of work allotted under the contract. Will you please advise us what your plans are for resuming work on the property in accordance with the amendment.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

SRicker:gh
cc: Opr. Com., DMEA, Wash., D.C.
R. M. Smith
H. C. Miller
Finance Off., Reg. II
Geo. Mavor
File

BUREAU OF MINES
WASHINGTON, D. C.

DEC 16 8 55 AM '55

400

DOCKET
Surname:
Martin
Selfridge
Yopes
Kiilsgaard

DEC 12 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1607 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3180, Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Ricker:

This will acknowledge receipt of your letter of November 21, 1955, forwarding copies of an "Assignment of Royalty Agreement," from Earl Elliott to Tungsten Mountain Mining Company. Said agreement has been reviewed here and found acceptable as to legal form.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/B)

Approved:

P. F. Yopes (2/B)
Member, Bureau of Mines

Tnor H. Kiilsgaard (2/B)
Member, Geological Survey

cc: Docket
Code 400
Oper. Committee
Adm. Reading File
T. Kiilsgaard, USGS
R. W. Holliday, USBM
FT, Region 2

WSMartin/ls
12/8/55

DEPARTMENT OF THE INTERIOR
Office of the Solicitor

Date December 6, 1955

Referred to: Administrator, DMEA
Attention: W. S. Martin

From: Associate Solicitor, Mineral Resources

For: Information and retention _____

Information and return _____

Necessary action ~~and return~~ x

Comment and return _____

Distribution in office or region _____

Remarks: Assignment of Royalty Agreement has been reviewed. It is acceptable as to legal form.

(Signature)

Docket
Chapman
Martin

November 28, 1955

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Iron and Ferro-Alloys Division, DMEA

Subject: Assignment of royalty right for consideration
Docket No. DMEA 3180, Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Transmitted herewith is a copy of "Assignment of Royalty Agreement" of Earl Elliott to Tungsten Mountain Mining Company for your consideration.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

cc: Docket
Code 400

TLChapman/ls

DMEA

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

RECEIVED
NOV 23 1955

1605 Evans Avenue
Reno, Nevada

November 21, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Reference is made to the last paragraph of your letter dated October 3, 1955 regarding subject contract.

Attached are four copies of "Assignment of Royalty Agreement" from Earl Elliott to the Tungsten Mountain Mining Company.

This company has been lax in resuming operations, but they have verbally promised to start work in accordance with the contract in the near future.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.

Nov 23 7 47 AM '55

RECEIVED
NOV 23 1955
RECEIVED
NOV 2

ASSIGNMENT OF ROYALTY AGREEMENT

FOR A VALUABLE CONSIDERATION, to-wit: the delivery to the undersigned of a promissory note of the TURNER MOUNTAIN MINING COMPANY, a corporation organized and existing, under the laws of the State of Nevada, the receipt whereof is hereby acknowledged, the said undersigned hereby assigns and transfers to said TURNER MOUNTAIN MINING COMPANY all his right, title and interest in and to that certain ROYALTY AGREEMENT heretofore, on the 31st day of July, 1953, made and entered into by and between BUARD CROCKETT WRAY, of Winnemucca, Nevada, and FRANKLIN P. POWER, of Seattle, Washington, wherein said Buard Crockett Wray was to receive 5% of the net smelter returns" from the Hill Top and Carnet Lode mining claims located in Churchill County, Nevada, which contract and agreement was heretofore acquired by the undersigned.

DATED this 27th day of August, 1955.

/s/ FRED ELLIOTT

WITNESS:

/s/ F. E. POWER

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

RECEIVED
OCT 12 1955

1605 Evans Avenue
Reno, Nevada

October 10, 1955

F. J. Wettrick
Wettrick, Flood, O'Brien, Toulouse & Lirhus
805-11 Arctic Building
Seattle 4, Washington

Re: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hill top mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Wettrick:

We have been advised by our Washington office that your letter of September 12, 1955 satisfied the conditions for subordination agreements set forth in my letter of July 1, 1955 to Mr. Bennett W. Porter relative to above referenced docket.

In order to complete our records, would you please send us a copy of this instrument under which the Tungsten Mountain Mining Company acquired the 5 percent interest.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

SRicker:gh
cc: Operating Committee, DMEA, Wash., D.C.
R. M. Smith, USGS
Finance Office, Region II
H. C. Miller, Regional Director, Reg. II
Geo. Mavor, Auditor, DMEA
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
OCT 5 - 1955

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

10/3/55

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

Attached are the original and three copies of an Interim Report on:

Docket No. DMEA- 3194

Contract No. Idm-E 713

Commodity Tungsten

Operator William C. Morrison & Sons

Property Valpine Tungsten Mine, Alpine Co., Calif.

By B. H. Sheahan

Dated 9/30/55

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments 4

Copy to: Finance Officer, Region II(w/copy of report)
R. M. Smith-USGS(w/copy of report)

BUREAU OF MINES
WASHINGTON, D. C.

OCT 5 8 22 AM '55

RECEIVED
OCT 1955

INTERIM REPORT
(Fourth)

Docket No.: DMEA-3194 (Tungsten) September 30, 1955

Name and address of operator: William C. Morrison and sons, partners
Woodfords, Alpine County, California

Name and location of property: Valpine Tungsten Mine
Hope Valley Mining District
Alpine County, California

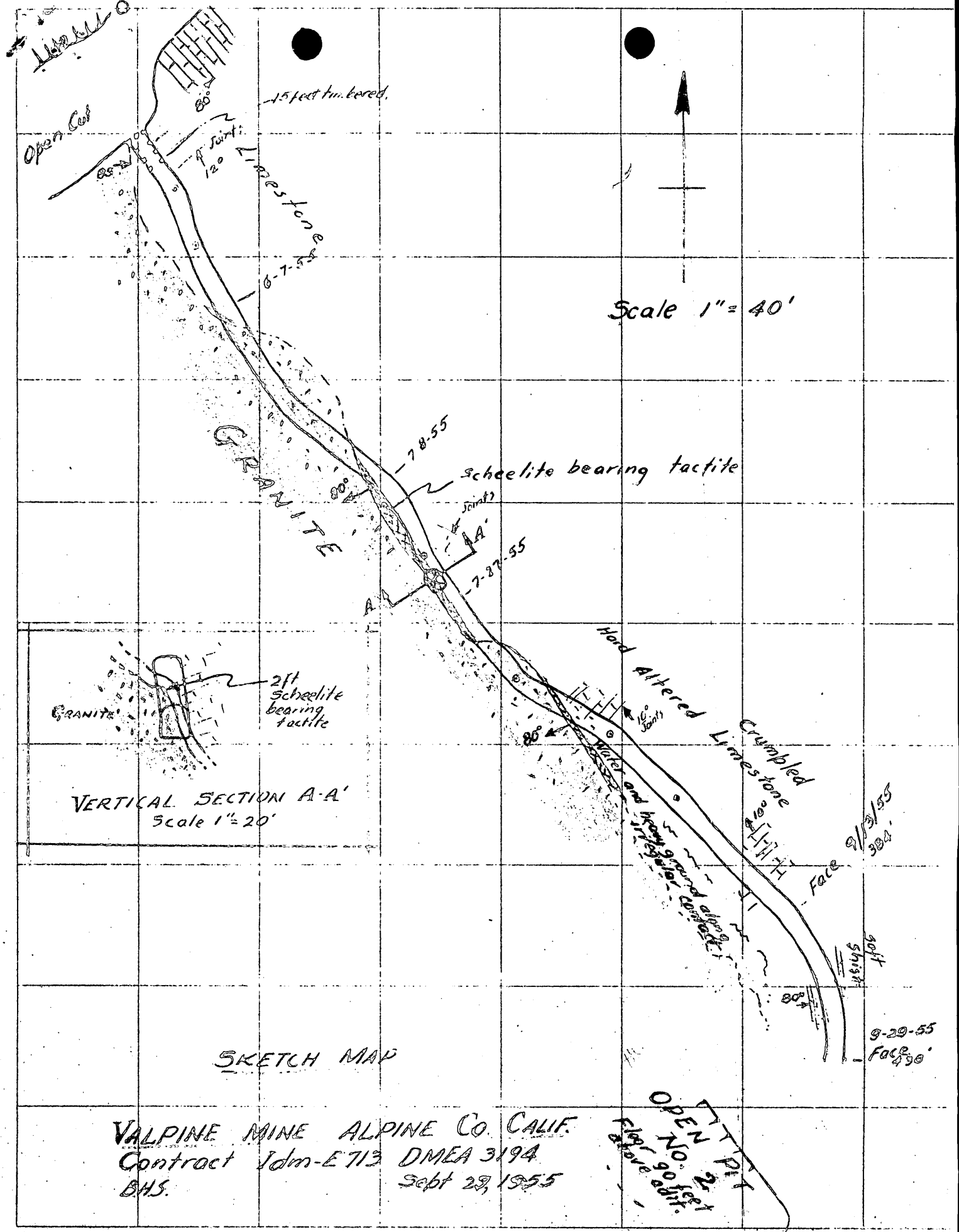
Contract No.: Idm-E713

Exploration work being conducted at the property was inspected Sept. 13 and 19, 1955. Total advance amounted to 438 feet. Water and heavy ground was encountered early in August along the irregular granite limestone contact. To improve progress, the operator turned the drift into the hanging wall and drove parallel to the contact in order to reach the favorable ore zone projected from the No. 2 open pit. He intends to crosscut unexplored portions of the contact on his own account.

Work authorized by the contract is expected to be completed prior to the expiration date, which is November 30, 1955. The operator does not expect to use all of the funds authorized for timbering, and he desires to use the money for additional exploration. He plans to request an amendment to the contract to authorize the additional drifting and to extend the completion date through the 1956 operating season.

The property will probably warrant certification as a discovery, although no shipments have yet been made from the explored zone. Further drifting in the mineralized zone appears to be justified.

B. H. Sheahan
Mining Engineer



"ALDANENE" NO. 100M KALCO. REG. U.S. PAT. OFF.

RECEIVED
OCT 5 - 1955

XXXXXXXXXXXXXXXXX
1201 N. Division Street
Spokane 2, Washington
October 3, 1955

RECEIVED
OCT 10 1955

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

Re: Docket No. DMEA-3198
Chewelah Copper Company, Inc.
Stevens County, Wash.
Contract No. Idm-E709

Dear Mrs. Purdy:

Work under the subject contract was terminated by mutual agreement under Termination Agreement dated June 27, 1955. A final report evaluating the results of the exploration program has been presented by the Operator and accepted by the Executive Officer.

The Government has no equity in equipment or supplies used on the project.

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

A final Report of Review dated September 8, 1955, issued by C. A. Turner, DMEA Auditor, has been received.

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

Sincerely yours,

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

cc: DMEA (2)
USGS (2)

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

Rubin
Talbot
Martin
Chapman
Selfridge
Fleman
Mitchenoy

OCT 3 - 1955

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
Bureau of Mines
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3180 (Tungsten)
Contract No. Idm-5707
Tungsten Mountain Mining Company
Milltop Mine
Churchill County, Nevada

Dear Mr. Ricker:

This responds to your memorandum of September 14 requesting advice as to whether any further action is necessary in connection with the question of an outstanding 5 percent royalty under the subject contract.

Your memorandum transmitted a copy of a letter dated September 12 to you from the Operator's lawyers which explains that the 5 percent royalty interest was acquired by the Operator on September 1, 1955. This satisfies the condition of our letter to you dated August 1.

The Operator's lawyers should be requested to furnish us with a copy of the instrument under which the Operator acquired the 5 percent interest, in order to complete our records on this matter.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (NB)

Approved:

/s/ Robert W. Geshan (NB)
Member, Bureau of Mines

N. E. Nelson (NB)
Member, Geological Survey

HCRubin/fvh
9/27/55
Docket
Reading File
Operating Committee
T. H. Kiilsgaard USGS
WS Martin Rm. 3538 USBM
Robert Holliday Rm. 3513
J. L. Hofflund
H. C. Rubin
Chron
Pending

R.C.S.

DOCKET
Surname:
Chapman
Martin

September 21, 1955

MEMORANDUM

To: Acting Assistant Solicitor

From: Iron and Ferro-Alloys Division, DMEA

Subject: Question of merging of interest of Earl Elliot with Tungsten Mountain Mining Company
Docket No. DMEA 3180 - Tungsten
Hilltop Mine, Churchill County, Nevada
Contract No. Idm-E707

Reference is made to letter of F. J. Wettrick, dated September 12, 1955, to Department of the Interior, Defense Minerals Exploration Administration, attention S. Ricker, and memorandum of Mr. S. Ricker, dated September 14, 1955, concerning the merging of interest of Mr. Earl Elliot and the Tungsten Mountain Mining Company.

Please advise what further action in this matter should be taken now.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

TLChapman/ls

cc: Docket
Code 400

DMEA

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

RECEIVED
SEP 1 3 1955

1605 Evans Avenue
Reno, Nevada

September 14, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 (Tungsten)
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Attached are two copies of letter dated September 12, 1955 from Mr. F. J. Wettrick in reply to my letter of August 10, 1955 to the Tungsten Mountain Mining Co.

May we please have your advice as to our further action relative to above subject contract.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.

SEP 16 8 23 AM '55

LAW OFFICES OF
WETTRICK, FLOOD, O'BRIEN, TOULOUSE & LIRHUS
605-11 ARCTIC BUILDING
SEATTLE 4, WASHINGTON
ELLIOTT 1109

FRED J. WETTRICK
GEORGE E. FLOOD (1954)
JOHN J. O'BRIEN
GEORGE J. TOULOUSE, JR.
CLARENCE A. LIRHUS

REFER TO	NOTED	DATE
S. Ricker		
ANSWERED		

Sept. 12, 1955

RECEIVED
SEP 1 3 1955

RE: Docket No. DMEA-3180
Contract No. Idm E-707

United States,
Department of the Interior,
Defense Minerals Exploration Administration,
1605 Evans Avenue,
Reno, Nevada.

ATTENTION S. RICKER, Executive Officer
DMEA Field Team, Reg. II

Dear Mr. Ricker:

Please be advised that Tungsten Mountain Mining Co., on Sept. 1, 1955, acquired the 5% Royalty Agreement from Mr. Earl Elliot of Yakima, Washington and it is, of course, now merged with the property holdings of the company. No royalty is therefore payable.

In view of the foregoing and the deposit with the DMEA of a prior subordination agreement, may we assume no additional subordination agreement is required, since the royalty agreement is no longer an obligation of the company.

Yours truly,

F. J. Wettrick

FJW:RMG

RECEIVED
AUG 15 1955

1605 Evans Avenue
Reno, Nevada

AIR MAIL

August 10, 1955

Mr. Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm E-707

Dear Mr. Porter:

Please refer to our letter of July 1, 1955 to you in which we called your attention to our understanding that a Mr. Earl Elliot of Spokane, Washington has an overriding five percent royalty on production from the property involved in the referenced contract.

The Subordination Agreement executed by you as president of Tungsten Mountain Mining Company is of no significance and it is necessary that a Subordination Agreement be executed by the holder of the encumbrance if one actually exists. In the meantime, no payments on the contract can be paid until the matter is clarified.

We are enclosing seven copies of Subordination Agreement, Form MF-201, which should be executed promptly by the holder of any encumbrance on the property. Six executed copies should be returned to this office.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Reg. II

copy received
AW 4-10

Encls.
SRicker:tc
cc: H. C. Miller
Finance Officer, Reg. II
DMEA Operating Committee, WO
Files, Roscoe Smith

1605 Evans Avenue
Reno, Nevada

July 1, 1955

Mr. Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Porter:

It has been brought to our attention that there is an overriding 5 percent royalty on all mill, smelter and U. S. Government gross returns from the property that was not given in the referenced application. On the MF-103 form submitted, the applicant was listed as owner and it was stated that: "There are no debts or encumbrances on the property."

In view of the above-mentioned royalty agreement, now said to be held by a Mr. Earl Elliot of Spokane, Washington, it will be necessary for you to furnish six copies of a subordination agreement on form MF-201, Revised March 24, 1955 to cover this obligation or give satisfactory proof that this royalty agreement has been eliminated. No additional payments can be made by the Government until this matter is clarified.

Attached are seven copies of subordination agreement, form MF-201. One is for your files. We would appreciate your early attention so that the work on the contract can be expedited.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attach.
SRicker:gh

cc: Finance Officer, Reg. II
File

R. M. Smith

Docket copy
Surnamed:

Rutledge
Martin
Hoffmann
Martin
Robinson
Mattendorf

140

Rewritten by

AUG - 1 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining
Company
Hilltop mine
Churchill County, Nevada
Contract No. Idm-3707

Dear Mr. Ricker:

In our letter to you of June 27 we referred to an overriding royalty of 5 percent on production from the property involved in the subject contract, which appears to be superior to the Government's royalty interest under the contract. We mentioned that this royalty interest is said to be held by a Mr. Earl Elliot of Spokane, Washington, and indicated that it will be necessary for the operator to furnish a Subordination Agreement to cover this claim.

In your letter to us of July 19 you enclosed six copies of a Subordination Agreement executed by "B. W. Porter, President of Tungsten Mountain Mining Company," and the signature certified by the secretary of the corporation. Apparently this is intended as a corporate signature of the operator itself. A Subordination Agreement by the operator is of no significance. It is necessary that the Subordination Agreement should be executed by the holder of the encumbrance, in this case believed to be Mr. Earl Elliot.

As indicated in our letter of June 27, no additional payment should be made to the Operator until this matter is clarified. Please ascertain from the operator what the true facts of this supposed overriding royalty may be, and procure from the Operator the necessary Subordination Agreement.

Sincerely yours,

W. S. Martin
ACTING
Chairman, Operating Committee (GHS)

Approved:

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

Thor H. Kiilsgaard (GHS)
Member, Geological Survey

Copy to: DMEA Docket
Adm. R. File
W. S. Martin
Operating Comm.
Robert Holliday, USBM
T. H. Kiilsgaard, USGS
J. L. Hofflund
chron.
pending

FARutledge/JLHofflund/emd
7/27/55

R.C.L.

DOCKET
SURNAME

400 Rutledge
Martin

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop mine
Churchill County, Nevada
Contract No. Ida-3707

Dear Mr. Richer:

Reference is made to our letter of June 27, 1955, and to the "Subordination Agreement" executed by B. W. Porter, president, Tungsten Mountain Mining Co. (Operator under the subject contract), that was transmitted with your letter of July 19, 1955.

We requested a subordination agreement to cover an overriding 5 percent royalty on all mill, smelter and U. S. Government gross returns from the subject property. If this royalty agreement has been eliminated there is no necessity for the operator to submit a subordination agreement. However if the operator has not submitted satisfactory proof that this royalty agreement has been eliminated, he should again be requested to furnish six copies of a subordination agreement executed by the holder of the lien or royalty agreement.

Sincerely yours,

Chairman, Operating Committee

APPROVED:

FARutledge:foc
7-25-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
Robert Holliday, USBM
Thor H. Kiilsgaard, USGS

Member, Bureau of Mines

Member, Geological Survey

R 2n Ea

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

1605 Evans Avenue
Reno, Nevada

July 19, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

In accordance with instructions in your letter of June 27, 1955, regarding above subject contract, we are attaching six copies of "Subordination Agreement" MF-201, executed by B. W. Porter, President of Tungsten Mountain Mining Company. I hope the document is in order.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.

JUL 21 9 18 AM '55

RECEIVED
JUL 21 1955

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of [redacted], State of [redacted], described as follows:1/

[redacted]

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated JULY 14, 1955 and recorded in book 5 page 499 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

(OVER)

Dated this _____ day of _____, 195_.

B. W. Foster [Seal]

[illegible] [Seal]

_____ [Seal]

I, _____, certify that I am the _____, (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Fred L. Mills

[Corporate Seal]

RECEIVED
JUL 21 1955

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Churchill, State of Nevada, described as follows:1/

Porter No. 1, Porter No. 2, Porter No. 3, Porter No. 4 and Porter No. 5 Lode Mining claims, located in Clan Alpine Mining District, in Churchill County, Nevada, recorded in Book ____, page ____, official records of said county, and conveyed to Sunshine Mountain Mining Co. by deed recorded in Book 5 page 499 records of said county.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated July 14, 1955 and recorded in book 5 page 499 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

(OVER)

Dated this _____ day of July, 195[illegible]

B. W. [illegible] [Seal]

President of [illegible] [Seal]

_____ [Seal]

I, [illegible], certify that I am the Secretary _____, (Secretary, etc.) of the corporation named herein; that [illegible] _____ who signed this agreement was then President _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Freda S. Mills

[Corporate Seal]

RECEIVED

JUL 2 1 1955

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Churchill, State of Nevada, described as follows:1/

Porter No. 1, Porter No. 2, Porter No. 3, Porter No. 4 and Porter No. 5 Lode Mining claims, located in Clan Alpine Mining District, in Churchill County, Nevada, recorded in Book ____, page ____, official records of said county, and conveyed to Tungsten Mountain Mining Co. by deed recorded in Book 5 page 499 records of said county.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated July 14, 1955, and recorded in book 5 page 499 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

(OVER)

Dated this _____ day of July, 195 5.

B. W. Porter [Seal]

President of TOLGOTEN MOUNTAIN MINING [Seal]

_____ [Seal]

I, FREDA L. MILLS, certify that I am the secretary, (Secretary, etc.) of the corporation named herein; that B. W. PORTER who signed this agreement was then president (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Freda L. Mills

[Corporate Seal]

RECEIVED
JUL 2 1955

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of [redacted], State of [redacted], described as follows:1/

[redacted]

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated JULY 14, 1955, and recorded in book 5 page 499 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

(OVER)

Dated this _____ day of July, 1953.

B. W. Poter [Seal]

President of [illegible] [Seal]

_____ [Seal]

I, Fred S. Mills, certify that I am the Secretary, (Secretary, etc.) of the corporation named herein; that B. W. [illegible] who signed this agreement was then President (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Fred S. Mills

[Corporate Seal]

RECEIVED

JUL 21 1955

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Tungsten Mt. Mining Co.
Docket No. DMEA- 3180
Contract No. Idm-E 707
Contract Date 9-13-54

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Churchill, State of Nevada, described as follows:1/

Porter No. 1, Porter No. 2, Porter No. 3, Porter No. 4 and Porter No. 5 Lode Mining claims, located in Clan Alpine Mining District, in Churchill County, Nevada, recorded in Book _____, page _____, official records of said county, and conveyed to Tungsten Mountain Mining Co. by deed recorded in Book 5 page 499 records of said county.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract, (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated July 14, 1955 and recorded in book 5 page 499 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

(OVER)

Dated this _____ day of July, 1955.

B. W. Porter [Seal]

President of TUNGSTEN MOUNTAIN MINING CO. [Seal]

_____ [Seal]

I, FREDA L. MILLS, certify that I am the secretary, (Secretary, etc.) of the corporation named herein; that B. W. PORTER who signed this agreement was then president (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Freda L. Mills

[Corporate Seal]

RECEIVED

JUL 21 1955

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Tungsten Mtn. Mining Co
Docket No. DMEA- 3180
Contract No. Idm-E 707
Contract Date 9-13-54

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Churchill, State of Nevada, described as follows:1/

Porter No. 1, Porter No. 2, Porter No. 3, Porter No. 4 and Porter No. 5 Lode Mining claims, located in Clan Alpine Mining District, in Churchill County, Nevada, recorded in Book ____, page ____, official records of said county, and conveyed to Tungsten Mountain Mining Co. by deed recorded in Book 5 page 499 records of said county.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated July 14 1955 and recorded in book 5 page 499 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

(OVER)

Dated this _____ day of July, 1955.

B. W. Porter [Seal]

President of TUNGSTEN MOUNTAIN MINING CO [Seal]

_____ [Seal]

I, FREDA L. MILLS, certify that I am the secretary, (Secretary, etc.) of the corporation named herein; that B. W. PORTER who signed this agreement was then president (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Freda L. Mills

[Corporate Seal]

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUL - 7 1955

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

July 5, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

Attached are the original and three copies of an Interim Report on:

Docket No. DMEA- 3180

Contract No. Idm-E 707

Commodity Tungsten

Operator Tungsten Mtn. Mining Co.

Property Hilltop Mine, Churchill Co., Nevada

By H. W. Jones

Dated 7/5/55

S. Ricker
S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments 4

Copy to: Finance Officer, Region II(w/copy of report)
R. M. Smith-USGS(w/copy of report)

BUREAU OF MINES
WASHINGTON, D. C.

JUL 7 9 23 AM '55

INTERIM REPORT

RECEIVED
JUL - 7 1955

Docket No.: DMEA-3180 - Tungsten July 5, 1955

Name and address of Operator: Bennett W. Porter
Tungsten Mtn. Mining Co.
511 Securities Bldg.
Seattle 1, Wash.

Name and location of property: Hilltop Mine
Churchill County, Nevada

Contract No.: Idm-E707

SUMMARY

The Hilltop mine was inspected on June 17 and again on June 23, 1955 to check the diamond drilling currently in progress under Stage II of the amended contract.

Drilling was started at the No. 3 setup on June 11, 1955 and completed to a depth of 35 feet bearing S. 60° W. and dipping -30°, AX size. Caving ground and difficulties with the drill bits owing to caving, the drill was moved to the No. 2 setup. Drilling was started on the No. 2 hole June 18, AX size, bearing S. 60° W. and dipping -25°. The drill hole was to a depth of 80 feet on June 23. The drillers had lost the diamond bit at the bottom of the hole and were attempting to either drill through or around it. Core recovery was poor, constituting about 35 percent of the total. The material recovered consisted chiefly of the harder limestone ribs in the soft crumbly argillites. There was no scheelite noted in the core recovered to date.

The David French Diamond Drilling Co. of Wallace, Idaho has the drilling contract.

The Operator plans to move back and complete No. 3 hole before continuing holes 1 and 4.

for Henry W. Jones
Mining Engineer

DOCKET
SURNAME
Rutledge
Talbert
Selfridge
Lehmann
Mitkenberg

400

JUN 27 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop mine
Churchill County, Nevada
Contract No. Idm-E707

Dear Mr. Ricker:

Reference is made to the subject contract. It has been brought to our attention that there is an overriding 5 percent royalty on all mill, smelter and U. S. Government gross returns from the property that was not given in the referenced application. On the MF-103 form submitted, the applicant was listed as owner and it was stated that: "There are no debts or encumbrances on the property."

In view of the above-mentioned royalty agreement, now said to be held by a Mr. Earl Elliot of Spokane, Washington, it will be necessary for the operator to furnish six copies of a subordination agreement on form MF-201, Revised March 24, 1955 to cover this obligation or give satisfactory proof that this royalty agreement has been eliminated. No additional payments should be made to the operator by the Government until this matter is clarified.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

APPROVED:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FARutledge:foc
6-23-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. II
Messrs. Holliday, USBM
Kiilsgaard, USGS

R.G.S.

Note to Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Co.
Contract No. Idm-E707

The following was taken from attachments to an "Offering Circular" for 149,800 Shares of Tungsten Mountain Mining Company, Underwriter H. P. Pratt & Company, Seattle, Washington.

Under History it was shown that the original purchase of the property by B. W. Porter of Seattle from the owners (Staggs and Quilici) was subject to a royalty agreement with one Dewart C. Wray, which provided for a 5% royalty on all mill, smelter and U. S. Government gross returns in perpetuity. This royalty agreement was acquired in 1954 by Mr. Earl Elliot of Spokane, Washington, who has agreed to cancel same upon payment by the Company of $5,000 plus accrued royalties.

Under Budget an item of $5,000 was included for "Elimination of Royalty Agreement as explained above."

The above prospectus is undated but contains data as late as April 23, 1955.

Under Price of Stock the following was set forth: "In view of the arrangements made to eliminate (for only $5,000.00) the royalty agreement which would otherwise be a very serious handicap upon the Company's future operations, and ******."

Copies 6-22-55
FAR

OFFICE OF THE ADMINISTRATOR

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

12 m Ea

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 25 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date: May 23, 1955

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -
Docket DMEA 3180

Contract Idm-E 707

Commodity Tungsten

Operator - Bennett W. Porter
Tungsten Mountain Mining Co.
Property - Hilltop Mine, Churchill County, Nevada

By Henry W. Jones

Dated May 20, 1955

S. Ricker
Executive Officer,
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith--USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

BUREAU OF MINES
WASHINGTON, D. C.

MAY 25 8 16 AM '55

INTERIM REPORT

Docket No.: DMEA-3180 - Tungsten May 20, 1955

Name and address of Operator: Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Building
Seattle 1, Wash.

Name and location of property: Hilltop Mine
Churchill County, Nevada

Contract No.: Idm-E707

SUMMARY AND CONCLUSIONS

The Hilltop mine was visited on May 11, 1955 to determine the status of the mine since the previous inspection of December 9, 1954.

Amendment No. 1, permitting a diamond drilling program under the contract, was dated April 29, 1955. Diamond drill holes were laid out at locations and directions as specified by the contract. Drilling is temporarily held up awaiting reply of the bids sent to various drilling companies.

WORK COMPLETED

No work has been completed under terms of the DMEA exploration contract since termination of the bulldozer trenching program November 15, 1954. Noncontract work since that time consisted of additional raising and stoping from the No. 1 Tunnel, and stripping the surface outcrop above the stope with the bulldozer. An additional small parallel tactite structure was encountered and surface mining is current-

ly in progress on both showings. At present there are two men and the foreman employed at the mine.

Only a small amount of work was completed during the winter months due to the heavy snows and relative inaccessibility of the property.

A recent 30-ton shipment of scheelite ore was made from the present workings to the Yancy mill at Gabbs, Nev. The average grade reportedly was 1.2 percent WO_3.

Henry W. Jones

Henry W. Jones
Mining Engineer

D.M.E.A.

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

1605 Evans Avenue
Reno, Nevada

May 13, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Reference is made to your letter of May 2, 1955 with which you transmitted the original and five copies of proposed Amendment No. 1 of above subject contract.

The Amendment No. 1 has been executed on the part of the Operator and one copy retained by him for his files. Distribution has been made of Finance and Field Team copies, and the original and two remaining copies are being returned herewith.

Glenn F. Gentry
For: S. Ricker

Encls.

BUREAU OF MINES
WASHINGTON, D. C.

MAY 16 9 03 AM '55

DOCKET
SURNAME

400 Chapman
Martin
Chamberlin
Holliday
Newcomb
Selfridge
Fitzsimmons

MAY - 2 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-5707

Dear Mr. Richer:

Enclosed are the original and five copies of proposed Amendment No. 1, for changes in the above referenced contract, signed by the Administrator for the Government, with Exhibit "A" (3 sheets), Justification (1 sheet) and 1 map.

If any part of the proposed contract does not have your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes for consideration.

You will note that Stage III is not a binding provision as it requires further agreement between the parties as to that additional work, if any, that will be done within $25,192.00. The effect of the provision is to hold in suspension an allotment of $25,192.00 for future work.

Sincerely yours,

George C. Selfridge
By ESF

Chairman, Operating Committee

Enclosure

APPROVED:

/s/ Robert W. Geehan By ESF
Member, Bureau of Mines

Thor H. Kiilsgaard By ESF
Member, Geological Survey

FARutledge:fcc
4-14-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG.II
Messrs. Holliday, USBM
Kiilsgaard, USGS

R.C.H.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

APR 28 1955.

Memorandum

To: Mr. G. C. Selfridge, Chairman, Operating Committee, DMEA

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3180, Tungsten Mountain Mining Co., Contract Idm-X707 (Tungsten)

Pursuant to your memorandum to me of April 22 I have revised Amendment No. 1 to the subject contract to eliminate the abandonment provision in the contract. No doubt it is better practice to eliminate this provision in all contracts when the opportunity offers.

The questions in your memorandum with regard to abandonment in general are being answered in a separate memorandum.

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Attachments
JLHofflund/emd
Copy to: DMEA Docket
Solicitor's Docket
W. S. Martin
J. L. Hofflund
chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

APR 28 1955.

Re: DMEA-3180

Memorandum

To: The Administrator, DMEA
Attention: George C. Selfridge

From: Acting Assistant Solicitor, Defense Minerals

Subject: Abandonment Clause in contract forms of February 1952

In Mr. Selfridge's memorandum to me of April 22 he asks four questions which I will here restate and answer.

Q. "May an owner-operator as well as a lessee-operator take advantage of the abandonment clause?"

A. Yes. However, except as to unpatented mining claims, an owner-operator is not apt to abandon. Moreover, it is not a simple matter for an owner to abandon, and until the title to the abandoned land becomes vested in some manner in some other person, the abandonment has not been accomplished.

Q. "If the abandonment clause has been deleted from the contract form, but the owner-operator of unpatented mining claims nevertheless abandons, does he remain liable for royalty?"

A. Yes.

Q. "Would the answer to the previous question remain the same if the land consisted of patented mining claims?"

A. Yes.

Q. "Under the revised contract forms of June 1954, can an operator, whether an owner or lessee, whether of patented or unpatented mining claims, escape liability for royalty by abandonment of the property?"

A. No.

Your reference to Tungsten Mountain Mining Co., DMEA-3180, Idm-E707, will be referred to in a separate memorandum under that subject.

JLHofflund:gjb 4/27/55
Copy to: DMEA Docket
Sol. Docket

George Selfridge 2)
J. L. Hofflund
Chron. File

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor,
Defense Minerals

Selfridge

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

April 22, 1955

Memorandum

To: John L. Hofflund, Acting Assistant Solicitor, Defense Minerals

From: George C. Selfridge, Chairman, Operating Committee

Subject: Abandonment Clause
Docket DMEA-3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-5707

The subject contract and its proposed Amendment No. 1 were discussed with you on Thursday, April 21. As suggested by you, I am returning the contract and the amendment for the possible deletion of that part of Article 7 beginning "Provided----".

To clarify our thinking in the Operating Committee, will you please answer the questions that follow.

Does the provided clause apply equally to contracts held either by lessees or owners?

Under contracts such as this one where the land referred to in Article 2 consists of unpatented claims, would the owner after deletion of the abandonment clause be liable for royalties on ore produced by another party within the 10-year period after there had been production and a certification of the project followed by abandonment of the property by the Operator?

Would the picture be changed if the land referred to in Article 2 consisted of patented claims?

In Article 2, item (d), of the new contract form, MF-200 (Revised June 1954), the Operator is required to preserve and maintain his right, title, etc. Under the item no mention is specifically made of how the Government's royalties are protected in the case of voluntary abandonment or involuntary--say as patented claims sold for taxes--as there would be no instrument of conveyance, etc. However, I take it for granted that under such circumstances the Operator would be liable under Article 8 (b) of the contract form.

George C. Selfridge

George C. Selfridge

GCSelfridge/esf
4/22/55
Copy to: Docket
Admr. R. File
Messrs: Mittendorf - Johnson - Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

APR 12 1955.

Memorandum

To: The Administrator, DMEA
Attention: Mr. W. S. Martin

WSM

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3180, Tungsten Mountain Mining Co. (Tungsten), Amendment No. 1

Pursuant to Mr. Martin's memorandum dated April 4, we have prepared the attached Amendment No. 1, in satisfactory legal form for execution, subject to the attachment of the map referred to therein.

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Attachments

P.S. You will note that Stage III is not a binding provision as it requires further agreement between the parties as to that additional work, if any, that will be done within $25,192. The effect of the provision is to hold in suspension an allotment of $25,192 for future work.

J.L.H.

DOCKET
Surname:
Chapman
Martin

400

April 4, 1955

MEMORANDUM

To: Acting Assistant Solicitor, Defense Minerals

From: Iron and Ferro-Alloys Division, DMEA

Subject: Preparation of Amendment No. 1
Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop mine
Churchill County, Nevada
Contract No. Idm-E707

Transmitted herewith is a rough draft of a proposed amendment to the subject contract for your use in preparing the amendment in final form.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

cc: Docket
Code 400
Adm. Reading File

TLChapman/ls

EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING COMPANY
DOCKET NO. DMEA-3180
CONTRACT NO. IDM-K707

JUSTIFICATION OF AMENDMENT NO. 1

The area excluded from Government percentage royalty payments had been opened up and was being mined prior to execution of the contract. No Defense Minerals Exploration Administration work was done within this area and the area is not benefited by any DMEA work.

Much of the trenching done under the DMEA project was unsuccessful, but did indicate the probable amount of faulting on Fault "A" and indicates that it would be advisable to explore for the faulted segment of the ore zone before entering into the more extended program of crosscutting and drifting.

EXPLORATION PROJECT CONTRACT
TUNGSTEN MOUNTAIN MINING COMPANY
DOCKET NO. DMEA-3180
CONTRACT NO. IDM-E707

AMENDMENT NO. 1

It is agreed this _____ day of _____, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and the tungsten Mountain Mining Company, that Exploration Project Contract Idm-E707 (Docket No. DMEA-3180) dated September 13, 1954, is amended as of this date, as follows:

1. Excluded from the land referred to in Article 2 of the contract and in Annex II is an area above Fault "A" which was known and was being mined prior to the date of the contract. This block of ground lies above Fault "A" (see accompanying map), is extended upward under the present workings and to surface, bounded by lines between co-ordinates 985 ON.-1094 E., 9685N.-10945E., 9620N.,-11120E.

2. In Article 3 of the contract form, delete the period "8 months," and substitute the period "18 months."

3. In Exhibit "A", under Description of the Work," delete Stage I and Stage II, and substitute the following:

Stage I

Bulldoze 550 feet of trench with a TD-14 bulldozer (see accompanying map).

A

Stage II

Drill 4 diamond drill holes 200 to 300 feet in length, at a dip of approximately minus 30 degrees and on the approximate course of S. 60° W., and located approximately as indicated on accompanying map. These holes are projected to intersect faulted segment of vein now being mined. Total depth of these holes shall not exceed 1,000 feet.

Further exploration shall be held in abeyance until completion of the diamond drill program. Any further work will be dependent on the results obtained by the drilling and will be subject to approval by the Government.

Under Estimated Cost of the Project, delete Stage I and Stage II and substitute the following:

Fixed Unit Cost

Stage I

Bulldozing trenches, 48 hours at $12.00/hr.	$ 576.00

Stage II

Diamond drilling, 100 feet at $6.50/ft.	6,500.00
Held in abeyance for further exploration, dependent on diamond drill results	25,192.00
Total cost of project	$32,268.00
Government participation, 75 percent	$24,201.00

R.M.E.a

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

1605 Evans Avenue
Reno, Nevada

March 21, 1955

Memorandum

TO: Mr. George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Reference is made to your letter of March 3, 1955 requesting more information in regard to proposed amendment to above subject contract. Following are our reactions to the points as outlined in your letter:

1. "The various dips shown on the vein are rather indefinite, varying from 30 degrees to 80 degrees."

The area in vicinity of vein segment above the fault is badly broken and covered by alluvium. Both our engineer and geologist believe that the dip, however, based on examination of the workings, is approximately 60 degrees. The limestone bearing scheelite below fault "A" in particular as shown on map to the northwest end of fault, indicate a dip of around 60 degrees.

2. "There are no indications of the throw on Fault "A"."

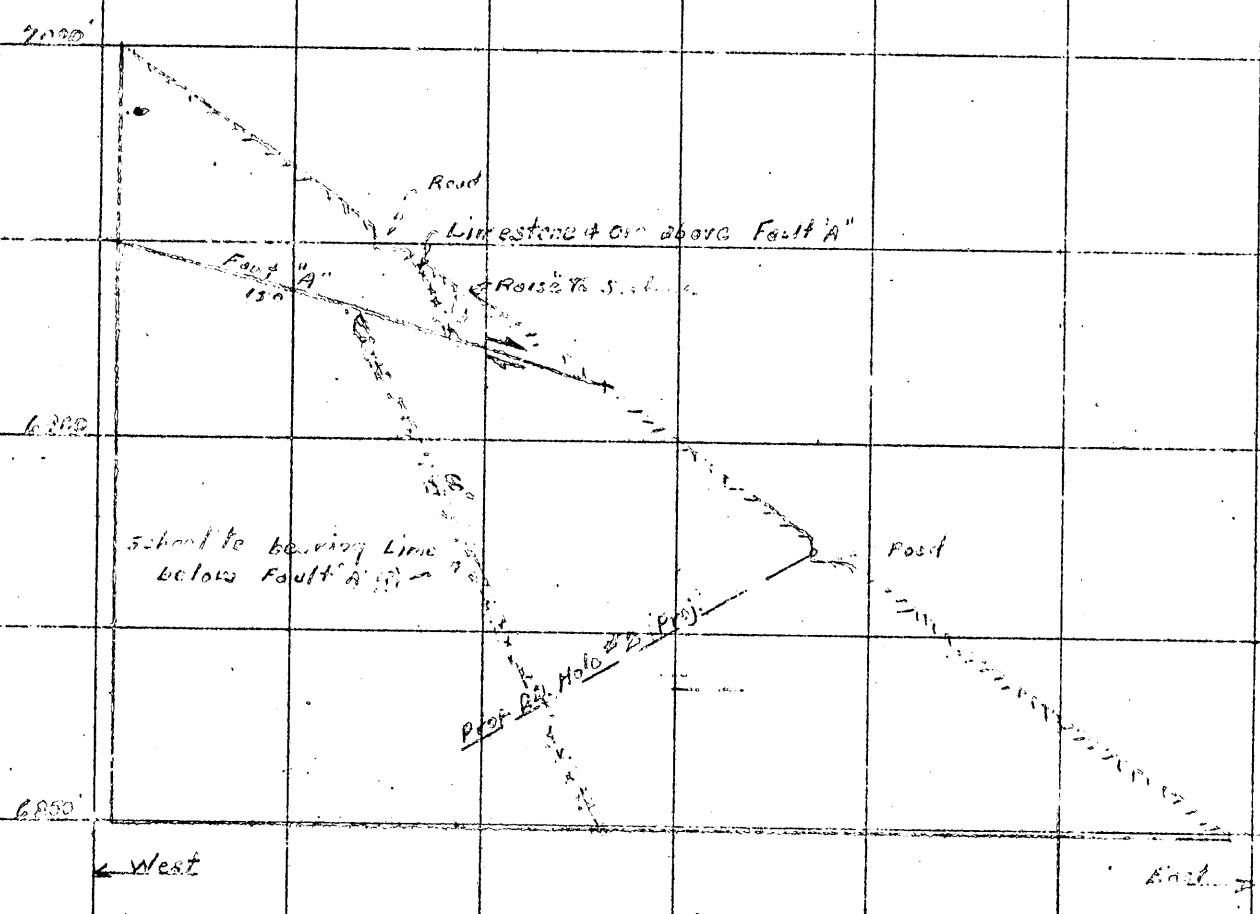
The throw of fault is inferred from the throw of the scheelite bearing limestone, as shown on the maps attached to my letter of February 4, 1955. This is noted at northwestern end of fault "A" The indicated scheelite bearing zone at that point is below the fault plane.

3. "If the fault should have a large throw, it is quite possible that the diamond drill holes with a flat dip of --30 degrees could miss the vein."

Three copies of an ideal section, based on best available data, are attached. Based on this section, we believe that 1,000 feet of exploration diamond drilling is justified.

S. Ricker
Executive Officer
DMEA Field Team, Region II

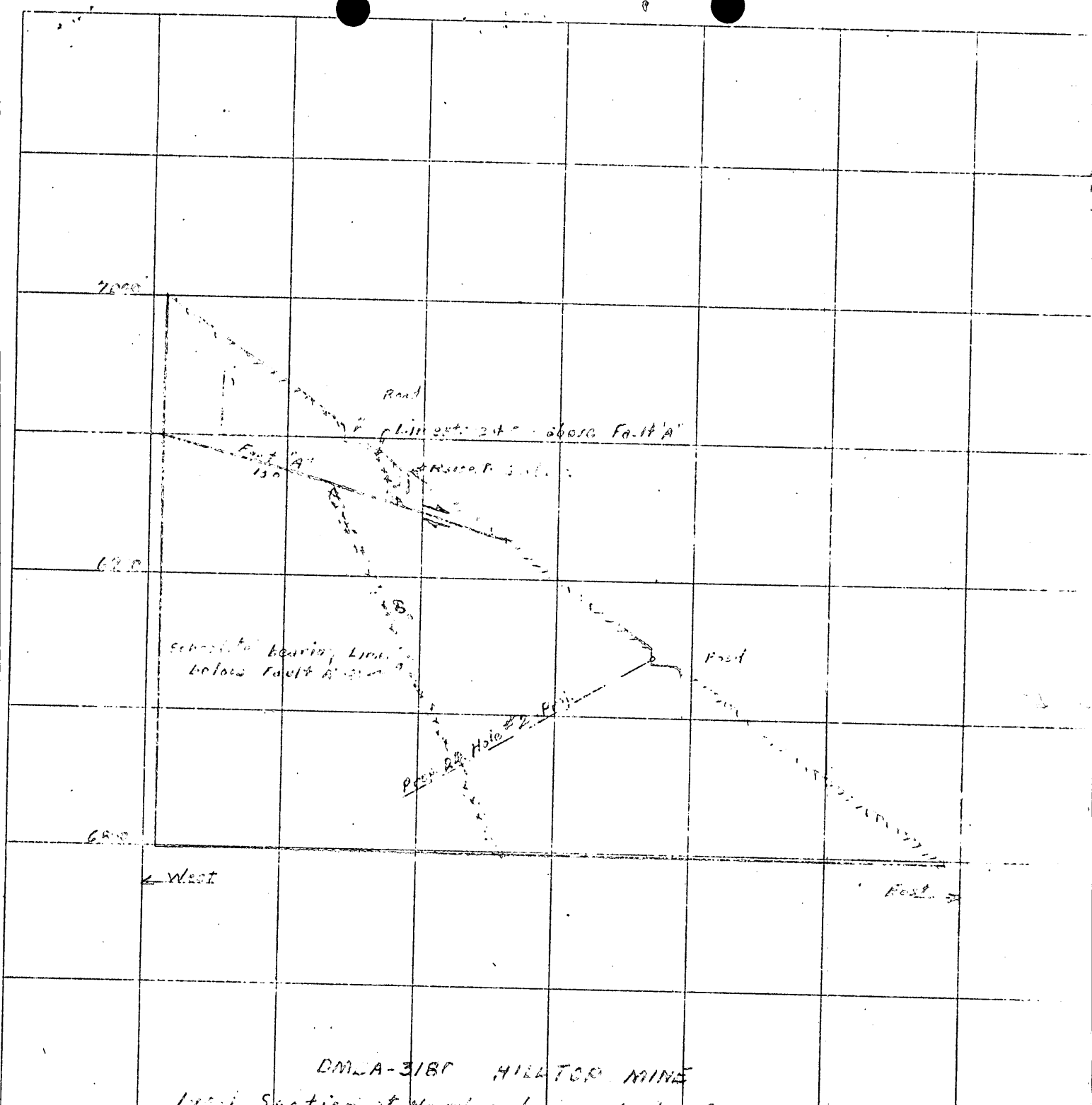
Attachments



DMEA-3180 HILLTOP MINE

Idealized Section at North end mine showing Fault offset

scale: 100' = 1"
Vert Scale Exaggerated



DML-3180 HILLTOP MINE

Incl Section at North end mine showing fault effect

Scale: 100' = 1"

Vert Scale Exaggerated

DOCKET
Surname:
Chapman
Martin
Selfridge
Johnson
Wettendorf

MAR 3 - 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
420 Custom House, 555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-2707

Dear Mr. Ricker:

Before giving further consideration to the proposed amendment of the subject contract, we find that more information is needed:

1. The various dips shown on the vein are rather indefinite, varying from 30 degrees to 80 degrees.

2. There are no indications of the throw on Fault "A".

3. If the fault should have a large throw, it is quite possible that the diamond drill holes with a flat dip of --30 degrees could miss the vein.

We believe, therefore, that the request for an amendment should be supported by a cross section through the workings and the fault, on the basis of the best available data.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Approved:

J. H. Hedges

Member, Bureau of Mines (JHB)

E. L. Newcomb

Member, Geological Survey (JHB)

cc: Docket
Adm. Read. File
Code 400
Oper. Committee
FT, Reg. 2
W. McInnis, USBM
T. Kiilsgaard, USGS

TLChapman/ls
2/25/55

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

March 1, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

W 529

From: Executive Officer, DMEA Field Team, Region II

Subject: Operator's Monthly Progress Reports - Forms MF-104 and MF-104A

Attached are two copies of each of the subject reports received from the operator listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report Dated	Period Covered
Idm-E707 DMEA-3180	Tungsten Mountain Mining Company	January 25, 1955	October-November-December, 1954

S. RICKER

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: Roscoe Smith, USGS

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Oct.-Nov.-Dec., 1954 Docket No. DMEA 3180 Contract No. IDM-E 707
Operator's Name Tungsten Mountain Mining Company Minerals Tungsten
Address 511 Securities Bldg., Seattle 1, Washington
Contract Amount, $ 32,268.00 Government Participation: 75% Amount, $ 24,201.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing	$708.	none	$708.00	$576.00	None	$576.00
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$708	None	$708.00	$576.00	None	$576.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Jan. 25, 1955 Payee Tungsten Mountain M. Co.

Per Arthur Lakes Title Manager & Engineer

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 432.00

Signature (Authorized Certifying Officer)

Date FEB 28 1955 Vou. No. SF-DMEA-21

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-B707 in accordance with the terms of the contract.

Signature R. E. Johnson Title Mining Engineer Region II Date January 26, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S. Ricker Title Executive Officer DMEA Field Team Region II Date January 27, 1955

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Oct-Nov-Dec. 1954 Docket No. DMEA 3180 Contract No. IDM-E 707
Operator's Name Tungsten Mountain Mining Co. Minerals Tungsten
Address 511 Securities Bldg. Seattle 1, Washington

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping		$708						
Trenching Bulldozer	1-hr.	~~59~~	59	$708.00	~~59~~ 48	$12	64-hr	$768.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$708	59	$708.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Less Suspension, as attached		132.00	11	132.00				
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		~~$708.00~~ $576.00	~~59~~ 48	~~$708.00~~ $576.00				

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

Date Jan. 25, 1955 Operator Tungsten Mtn. M. Co.

Per Arthur Lakes Title Mgr. & Eng.
(Arthur Lakes)

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

January 24,1955

Mr. S. Ricker,
DMEA Executive Officer,
420 Custom House,
555 Battery St.,
San Francisco 11, California

Re Docket No. DMEA 3180

Dear Sir:

Herewith is amended application Docket No. DMEA 3180, dated September 13, 1954 for tungsten exploration, Tungsten Mountain Mining Company, 511 Securities Bldg., Seattle, 1, Washington with respect to certain land situated in Churchill County, Nevada.

The DMEA examining team had recommended Stage 1 comprising 64-hours excavating trenches with D-8 bulldozer or equivalent @ $12 per hour, totalling $768. Tungsten Mountain's bulldozer is a TD-14 which is smaller than a D-8, hence a compromise rate @ $6 per hour was tentatively arrived at. Stage 1 comprises 118-hours with this machine which @ $6 per hour is $708, of which DMEA's 3/4 share would be $531 as per Oct-Nov-Dec. account rendered.

For clarity the following events are listed to show the changes that have taken place since DMEA's original examination and to further our plan for future exploration.

The following surface showings were disclosed by company paid bulldozing: (1) At "C" about 80-feet length of limestone and WO3, believed to be under Fault "A" which, at No. 2 tunnel, had cut off downward continuation of No. 1 tunnel's good ore showings. If this is the same fault, as believed, it has offset downward continuation of tunnel ore about 60-horizontal feet to the right (from "D" to "C"). Ore and enclosing rock above Fault "A" are much broken and unstable. Rock and ore below Fault "A" is in place and stable. Trenching the projected extensions, approximately along green line on accompanying map, was not done because a rock ridge stopped bulldozer work in that direction. It is the company's intention to complete this work in hopes that it will disclose good ore showings upon which we can start a drift tunnel.

(2) "New show" at "G" was discovered by geological prospecting conducted through the summer and fall on part time basis and was disclosed by company paid bulldozer trenching in early December. This comprises 50-feet width of limestone (by far the widest and strongest yet disclosed on Tungsten Mountain) in which are four 5-foot ore streaks making a total of 20-feet ore width. Surface outcrops to NW and SE indicate about 150-feet potential ore length and it is believed that bulldoze prospecting into the covered NW and SE extensions (indicated by

green line on map) has the strongest ore potential of the property.

Amended Application In view of Stage' 1's failure and in order to continue on lines set out by the DMEA team Tungsten Mountain makes the following amended application to continue exploratory program.

Drill four diamonddrill holes, all in S 60° W from surface as follows:

No. 1 DD drilled S 60° W into structure under fault "A" from below lower cut @ about 6775 El. Two hundred feet @ -30°. This will tap presumed downward extension of ore-favorable limy rock about 170-vertical ft. below cutcrop @ 6675-feet El.

No. 2 DD drilled S 60° W into structure under Fault "A". from SW end of lower cut @ 6850 El. Two hundred feet @ -30°. This should tap presumed downward extension of ore-favorable rock about 150-vertical feet below No. 1 tunnel level at El 6750

No. 3 DD drilled S 60° W into structure under Fault "A" from switchback at 6800 El. Three hundred feet @ -30° should cross presumed downward continuation of ore-favorable limy structure(that produced ore at No. 1 tunnel) about 250-vertical feet below No. 1 tunne @ 6650 El .

No. 4 DD drilled S 60° W into structure under Fault "A" from cut @ 6750 El, should cross under SE extension of structure extending downhill from No. 1 and No. 2 tunnels at about 225-vertical feet below No. 2 tunnel @ 6600 El.

This totals 1,000-feet of drilling at tentative cost of about $7 per foot, subject to bid from listed contractors. The estimated cost includes necessity to haul water over our steep mountain road and the work cannot start as long as freeqing conditions continue. Total cost about $7,000 (subject ot change according to contractors estimated) of which DMEA's 3/4 would be $5,250.

Drillers to be contacted for cost estimate and conduct of program based upon best bid: Continental Drilling, Co. Los Angelese. Boyles Bros., Salt Lake City, Palmer & Decker, Bishop, Calif.

Alternative subject to DMEA approval: The enccouraging surface showings outlined herein and shown on map give us belief that we might more quickly, and conclusively, prove up ore potentials and determine a tunnel site which might start on ore. We therefore offer an alternative suggestion that DMEA approve a bulldoze program along the indicated NW structure extension from "C" to Fault ? "B" and that also a similar bulldozer prospecting plan be arranged to both NW and SE from "New Show".

Success of the diamondrilling to be followed by tunnelling from, and into, most encouraging showings to amount according with the balance of the $32,368 estimated total cost of project or

If more conclusive results are gotten from the bulldozer work along the indicated structure extensions, tunnelling from and into the most encouraging showings to amount of unexpended balance of the $32,368 estimated total cost.

With regards,

Yours truly,

(Arthur Lakes)
For Tungsten Mountain Mining Co.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION ~~III~~ II

Received
MAR 7 - 1955

Administrative Audit Difference Statement

Date: February 28, 1955
Payee's
Reference: Docket DIL-100 Sunpoint
Sunpoint Manitoba Mining Co.
Contract IDL-2.7
ACS: Dr. Arthur Baker

Sunpoint Manitoba Mining Co.
Oil Securities Bldg.
Seattle 1, Washington

Gentlemen:

Upon examination of the above Payee's Reference, a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ 720.00

Difference $ 150.00

Amount Approved $ 570.00

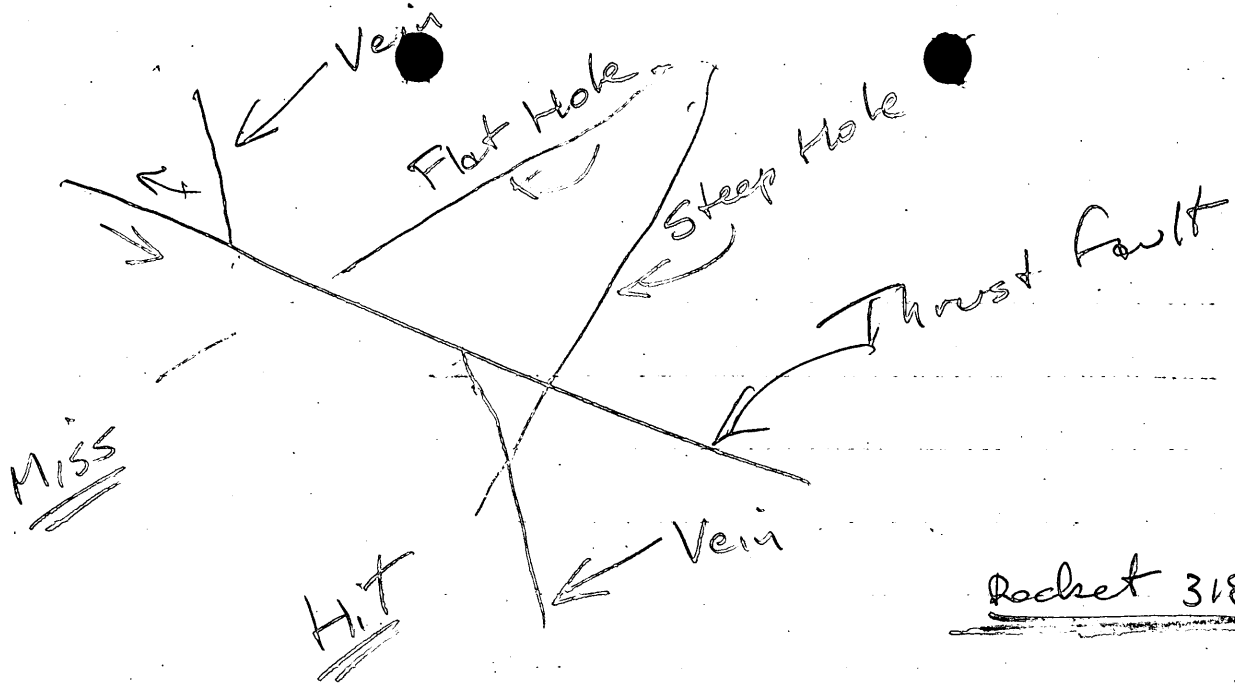
The reason for the difference was due to: disallowance of 11 hours bulldozer work at $13.60 per hour erroneously charged to contract on DL-100 covering the months of October, November and December, 1954, per your letter of February 21, 1955.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

L. H. SJOLANDER

L. H. Sjolander
Chief, Budget and Finance Branch
Region III



Rocket 3180

Rough sketch to show why we are interested in thrust fault

2/25/55

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 18 1955

February 17, 1955

Re: DMEA-3180
Tungsten Mt. Mining Company
(Hilltop Mine)
Churchill Co., Nev.
Tungsten

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of proposed amendment

The operator has proposed an amendment to his contract which would allow 1,000 feet of drilling to test for mineralization in the footwall block of Fault "A."

This work would precede the driving of an adit, which was approved as Stage II work in the contract. This amendment should require that the adit level be contingent upon favorable results from diamond drilling. Inasmuch as the Stage I trenching results were inconclusive and rather unfavorable, the drilling proposed and recommended for approval by the Field Team is the logical next step in carrying out exploration on this favorable deposit.

Although much of the DMEA exploration to date has been largely unsuccessful, non-contract work by the operator has disclosed considerable evidence of significant tungsten mineralization. Much of this work was done prior to the DMEA contract and has resulted in some production; however, we have no figures on the amount produced to date.

The delineation of the excluded block of mineralized ground, as presented by the Field Team, seems reasonable since this ground was explored by non-contract work. Initiation of exploration in this area and the production of ore therefrom was accomplished before DMEA entered into a contract with the operator.

The drilling of 4 holes, as located on the operator's map, should be approved as an amendment to the contract.

E. L. Newcomb
E. L. Newcomb

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 8 1955

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 4, 1955

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Reference is made to your letter of January 10, 1955, and our reply dated January 12, 1955, relating to a possible amendment to the subject contract. Reference is also made to your letter of November 10, 1954, regarding royalty payments on ore currently being mined and shipped.

Two copies of a letter from the Operator requesting that he be released from provisions of Annex II with regard to the production above Fault "A" are attached. In this respect, I understand that the operator had been mining and shipping ore from that area before consummation of the contract and for that reason Roscoe Smith and I believe that there are good grounds for a favorable consideration of his request.

Our thoughts on the area that may be considered for exclusion from royalty payments are shown on the maps attached to the copies of the Operator's letter in which an amendment to the contract is requested. This could be described as a block of ground above Fault "A" line on map and extended at a +20 degree dip under the present workings and by lines between coordinate points 9850N - 10945E, 9685N - 10945E, 9620N - 11120E

Fault "A" is reported to be a thrust fault and it is recommended in order to explore the ground beneath the fault that Stage II of contract be amended as follows;

Description of the Work

Stage II

I. Drill 4 diamond drill holes 200 to 300 feet in length and spaced approximately 100 to 150 feet apart. Location to be approved by Government.

II. Further exploration to be held in abeyance until completion of diamond drilling and/or further field examination in spring of 1955 when ground is free of snow.

Estimated Cost of Contract

I. Diamond drill 4 holes
Total length 1000 feet at $6.50 per foot $6,500

II. Held in abeyance for further exploration dependent on results of diamond drilling and field examination in spring when surface is free of snow. $25,000

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS
A. C. Johnson, Reno

NELSON, B. C.
ROYAL BANK BUILDING
PHONE 20

ARTHUR LAKES
MINING ENGINEER

SPOKANE, WASH.
DAVENPORT HOTEL
PHONE MAIN 2121

TUNGSTEN MOUNTAIN MINING CO.
BOX 456, FALLON, NEVADA

FEB 8 1955

January 24, 1955

Mr. S. Ricker,
DMEA Executive Officer,
420 Custom House,
555 Battery St.,
San Francisco 11, California.

Re Docket No. DMEA 3180

Dear Sir:

Reference to Annex II Docket No. DMEA 3180 (IDM-E 707) as to royalty payment to Government.

The DMEA assistance was requested, and was granted, to explore downward extensions of Tungsten Mountain ore below Fault "A", shown on accompanying map which is part of our amended application also enclosed.

The ore above Fault "A" had already been disclosed and opened before DMEA entered into the picture hence, from our point of view, has no association with Project IDM-E 707 (Docket DMEA 3180).

We are mining exclusively above Fault "A" in the originally disclosed ore because pending success from the Government's assisted work we will probably have no development below Fault "A".

We have been, and shall continue, putting back our ore returns into company paid exploration-development outside of area and objectives covered by original project IDM-E 707 outlined in Docket DMEA 3180 but if our amended application is granted and work therein below Fault "A" provides commercial possibilities we shall, of course, be very pleased to contribute the required royalties.

In view of the above conditions we are asking that Tungsten Mountain Mining Co. be released from provisions of Annex II with regards the production above Fault "A".

Yours truly,

Arthur Lakes

(Arthur Lakes)
For Tungsten Mountain Mining Co.

NELSON, B. C.
ROYAL BANK BUILDING
PHONE 20

ARTHUR LAKES
MINING ENGINEER

SPOKANE, WASH.
DAVENPORT HOTEL
PHONE MAIN 2121

TUNGSTEN MOUNTAIN MINING CO.
BOX 456, FALLON, NEVADA

FEB 7 8 1955

January 24, 1955

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Yours truly,

Arthur Lakes

(Arthur Lakes)
For Tungsten Mountain Mining Co.

NELSON, B.-C.
ROYAL BANK BUILDING
PHONE 20

ARTHUR LAKES
MINING ENGINEER

SPOKANE, WASH.
DAVENPORT HOTEL
PHONE MAIN 2121

TUNGSTEN MOUNTAIN MINING CO.
BOX 456, FALLON, NEVADA

January 24, 1955

Mr. S. Ricker,
DMEA Executive Officer,
420 Custom House,
555 Battery St.,
San Francisco 11, California.

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Dear Sir:

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The DMEA examining team had recommended Stage 1 comprising 64-hours excavating trenches with D-8 bulldozer or equivalent @ $12 per hour, totalling $768. Tungsten Mountain's bulldozer is a TD-14 which is smaller than a D-8, hence a compromise rate @ $6 per hour was tentatively arrived at. Stage 1 comprises 118-hours with this machine which @ $6 per hour is $708, of which DMEA's 3/4 share would be $531 as per Oct-Nov-Dec. account rendered.

For clarity the following events are listed to show the changes that have taken place since DMEA's original examination and to further our plan for future exploration.

The following surface showings were disclosed by company paid bulldozing: (1) At "C" about 80-feet length of limestone and WO3, believed to be under Fault "A" which, at No. 2 tunnel, had cut off downward continuation of No. 1 tunnel's good ore showings. If this is the same fault, as believed, it has offset downward continuation of tunnel ore about 60-horizontal feet to the right (from "D" to "C"). Ore and enclosing rock above Fault "A" are much broken and unsatble. Rock and ore below Fault "A" is in place and stable. Trenching the projected extensions, approximately along green line on accompanying map, was not done because a rock ridge stopped bulldozer work in that direction. It is the company's intention to complete this work in hopes that it will disclose good ore showings upon which we can start a drift tunnel.

(2) "New show" at "G" was discovered by geological prospecting conducted through the summer and fall on part time basis and was disclosed by company paid trenching early in December. This comprises 50-feet width of limestone (by far the widest and strongest yet disclosed on Tungsten Mountain) in which are four 5-foot ore streaks making a total of 20-feet ore width. Surface outcrops to NW and SE indicate about 150-feet potential ore length and it is believed that bulldozer

DEPARTMENT OF INTERIOR
BUREAU OF MINES
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prospecting into the covered NW and SE extensions (indicated by green line on map) has the strongest ore potential of the property.

Amended application In view of Stage 1's failure and in order to continue on lines set out by the DMEA team, Tungsten Mountain makes the following amended application to continue exploratory program.

Drill four diamond drill holes, all in S 60° W direction from surface as follows:

No. 1 DD drilled S 60° W into structure under Fault "A" from below lower cut @ about 6775 El. Two hundred feet @ -30°. This should tap presumed downward extension of ore-favorable limy rock about 170-vertical feet below outcrop @ 6675-feet El.

No. 2 DD drilled S 60° W into structure under Fault "A" from SW end of lower cut @ 6850 El. Two hundred feet @ -30°. This should tap presumed downward extension of ore-favorable rock about 150-vertical feet below No. 1 tunnel level at El 6750.

No. 3 DD drilled S 60° W into structure under Fault "A" from switchback at 6800 El. Three hundred feet @ -30° should cross presumed downward continuation of ore-favorable limy structure (that produced ore at No. 1 tunnel) about 250-vertical feet below No. 1 tunnel @ 6650 El.

No. 4 DD drilled S 60° W into structure under Fault "A" from cut @ 6750 El. should cross under SE extension of structure extending downhill from No. 1 and No. 2 tunnels at about 225-vertical feet below No. 2 tunnel @ 6600 El.

This totals 1,000-feet of drilling at tentative cost of about $7 per foot, subject to bid from listed contractors. The estimated cost includes necessity to haul water over our steep mountain road and the work cannot start as long as freezing conditions continue. Total cost about $7,000 (subject to change according to contractors estimates) of which DMEA's 3/4 would be $5,250.

Drillers to be contacted for cost estimate and conduct of program based upon best bid: Continental Drilling Co., Los Angelese, Boyles Bros., Salt Lake City, Palmer & Decker, Bishop, California.

Alternative, subject to DMEA approval: The encouraging surface showings outlined herein and shown on map give us belief that we might more quickly, and conclusively, prove up ore potentials and determine a tunnel site which might start on ore. We therefore offer an alternative suggestion that DMEA approve a bulldoze program along the

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BUREAU OF MINES
REGION II
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SAN FRANCISCO, CALIFORNIA

indicated NW structure extension from "C" to Fault "B" and that also a similar bulldozer prospecting plan be arranged to both NW and SE from "New show".

Success of the diamond drilling to be followed by tunnelling from, and into, most encouraging showings to amount according with the balance of the $32,368 estimated total cost of project or

If more conclusive results are gotten from the bulldozer work along the indicated structure extensions, tunnelling from and into the most encouraging showings to amount of unexpended balance of the $32,368 estimated total cost.

With regards,

Yours truly,

Arthur Lakes

(Arthur Lakes)
For Tungsten Mountain Mining Co.

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1955 JAN 27 AM 8:48

SAN FRANCISCO, CALIFORNIA

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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JAN 17 1955

420 Custom House
555 Battery Street
San Francisco 11, Calif.

January 12, 1955

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. Idm-E707

Reference is made to your letter of January 6, 1955, relating to an amendment to the above-cited contract.

Unfortunately, nothing constructive has been done on this docket since the property was examined on November 24, 1954, by Roscoe Smith and H. W. Jones. At that time the amendment to change the work under Stage II was suggested, as reported in the Interim report dated December 10, 1954.

I assume from conversations I had with H. W. Jones on January 7, 1955, and with Roscoe Smith today that they were under the impression that the Operator would request an amendment in accordance with their suggestions in the interim report. However, we have had no request for an amendment from the Operator.

Mr. Jones advised me that he intended to interview the Superintendent of the mine in Fallon, Nevada, in a few days and would inform me as to the results of the interview. I will await word from Jones before I correspond directly with Mr. Porter, of the Tungsten Mountain Mining Company, Seattle, Washington, in an endeavor to get work resumed on the project.

Atomic Energy Commission
Atomic Administration
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Problems of this kind are of course greatly complicated owing to the fact that this office has no direct contact with our field engineers.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno
H. W. Jones, Reno

400

DOCKET
SURNAME
Rutledge
Martin
Selfridge
Johnson
Mittendorf

JAN 1 0 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop mine
Churchill County, Nevada
Contract No. Idm-5707

Dear Mr. Richer:

Reference is made to the subject docket and the relevant interim reports, dated December 10 and December 29, 1954, by Henry W. Jones, Mining Engineer.

The first-mentioned interim report contains recommendations for a change in the work authorized under Stage II of the subject contract. However, we have not received either the Field Team's recommendations on the proposed changes or a location map to indicate the revised exploration.

The second-referenced interim report stated without further details that a revised program was reportedly submitted by the applicant. This has not been received here as of January 6, 1955.

It would be appreciated, therefore, if the Field Team would expedite our receiving the necessary data if an amendment is proposed changing the work authorized under Stage II of the contract.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

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

Thor H. Kiilsgaard JHH
Member, Geological Survey

FARutledge:foc
1-6-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
T. H. Kiilsgaard, USGS

C

400 DOCKET SURNAME

Rutledge
Martin
Selfridge
Johnson
Matthews

JAN - 6 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop mine
Churchill County, Nevada
Contract No. Ida-E707

Dear Mr. Ricker:

Reference is made to the subject contract and the interim report dated December 10, 1954, by Henry W. Jones, Mining Engineer, Bureau of Mines.

In reviewing the referenced report, it was noted that Mr. Jones recommended that the exploration authorized under Stage II of the subject contract be changed by an appropriate amendment. If in the opinion of the Field Team such an amendment should be executed, please advise when we may expect to receive the corresponding request and recommendations.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

APPROVED:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FARutledge:fec
1-4-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. 3
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

R.C.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPT OF THE INTERIOR
Minerals Administration
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JAN - 4 1955

Office of
Executive Officer
DMEA Field Team
Region III

420 Custom House
555 Battery Street
San Francisco 11, California

Date: December 30, 1954

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -
Docket DMEA -3180

Contract Idm-E 707

Commodity Tungsten

Operator - Bennett W. Porter
Tungsten Mountain Mining Co.

Property - Hilltop Mine
Churchill County, Nevada

By Henry W. Jones, Mining Engineer

Dated December 29, 1954

Executive Officer,
DMEA Field Team, Region III

Attachments

Copy to: R. M. Smith--USGS (with copy of report)
Finance Officer, Region III (with copy of report)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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JAN - 4 1955

INTERIM REPORT

Docket No.: DMEA-3180 (Tungsten) December 29, 1954

Name and address of operator: Bennett W. Porter
Tungsten Mountain Mining Co.
511 Securities Bldg.
Seattle 1, Wash.

Name and location of property: Hilltop Mine
Churchill County, Nev.

Contract No.: Idm-E707

SUMMARY AND CONCLUSIONS

The Hilltop mine was visited on December 9, 1954. No further work was completed under terms of the DMEA exploration loan since the joint field team examination on November 24, 1954. A revised program was reportedly submitted by the applicant. No further work will be done on the program pending its approval.

WORK COMPLETED

No additional work has been done on the property under terms of the DMEA exploration loan after the joint field examination of Nov. 24, 1954.

Non-contract work during the period consisted of extending the previously reported raise and stope in the turn of the No. 1 tunnel to near the surface, directly under the discovery monument. High grade ore shipments from this locality are continuing.

Other non-contract work consisted of bulldozing a level gradient road from the saddle on the mine approach road to a newly discovered scheelite showing in the northwest portion of the Porter No. 1 claim. The new discovery, found in a massive blue limestone outcrop, occurs as small high grade scheelite pods with adjoining scattered scheelite crystals within the limestone. Indications of mineralization were traced about 200 feet southeasterly from the point of discovery.

SAMPLING

Assay results of a sample taken at the north end of the 6700 trench indicate a 0.04 percent WO_3 content.

Henry W. Jones

Henry W. Jones
Mining Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

420 Custom House
555 Battery Street
San Francisco 11, California

Date: December 15, 1954

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -
Docket DMEA-3180

Contract Idm-E 707

Commodity Tungsten

Operator - Tungsten Mountain Mining Co.

Property - Hilltop Mine
Churchill County, Nevada

By Henry W. Jones, Mining Engineer

Dated December 10, 1954

Executive Officer,
DMEA Field Team, Region III

Attachments

Copy to: R. M. Smith--USGS (with copy of report)
Finance Officer, Region III (with copy of report)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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INTERIM REPORT

Docket No.: DMEA-3180 (Tungsten) December 10, 1954

Name and address of operator: Mr. Bennett W. Porter
Tungsten Mountain Mining Co.,
511 Securities Bldg.,
Seattle 1, Wash.

Name and location of property: Hilltop Mine
Churchill County, Nev.

Contract No.: Idm-E707

SUMMARY AND CONCLUSIONS

The Hilltop mine was visited on Nov. 15, 1954 to check the work progress applicable to terms of the DMEA exploration contract. The Stage I bulldozing program was terminated after completing 48 hours and 550 feet of trenches in the authorized locations. Meager scheelite indications were noted in the 6700 trench and the lower 6630 trench. Bulldozer trench results were considered inconclusive.

A joint examination between the U.S. Geological Survey and the U.S. Bureau of Mines was requested and a second inspection was made on Nov. 24, 1954. The geologist and engineer concurred that meager scheelite indications in the roads and bulldozer trenches to the east and adjacent to the mine precluded further work in that section, and a modified alternative program should be arranged.

RECOMMENDATIONS

The Stage II part of the contract was to be undertaken only on the approval of the DMEA field team. As a result of the joint examination, it was determined that favorable limestone beds were not uncovered by bulldozer trenching and scheelite indications were too small and scattered for any further exploration in that section of the property.

The continued mining and shipping of high grade ore from the present workings indicate the property has merit and other ore bodies may be uncovered with the aid of additional DMEA funds. It is therefore recommended that:

1. Stage II part of the program be amended to include 4 diamond drill holes, spaced 100 to 150 feet apart and having a combined total length of 1,000 feet, be placed to intersect the assumed downward extension of the favorable mineralized limestone beds under and immediately north of the present showings. (The location of the holes to be approved by the Government).

2. Dependent on the findings of the diamond drill program, an adit should be driven along the strike of the favorable bed at an elevation 100 to 150 feet (6750-6800 feet) below the No. 1 tunnel.

WORK COMPLETED

The Hilltop mine was visited in company with the mine foreman on Nov. 15, 1954. Bulldozer trenching was terminated after completing a total of 48 hours and 550 feet of trenches in locations authorized by the DMEA contract. Additional connecting roadways were made for access to the areas but were not subject to repayment under terms of the

contract.

Scattered scheelite crystals were noted in an aplite dike which adjoins the argillite, in the lower or 6630 trench. The scheelite was too sparse and disseminated to sample. The 6700 trench uncovered a small flat cross fissure striking N. 5° E. and dipping to the west. Scattered scheelite mineralization was noted over about a 0.5 foot width, and a sample was taken. Results have not been received.

Non-contract work consisted of driving a 10-foot raise from the north end of the No. 1 tunnel to the surface, and stoping ore from near the bend of the tunnel for continued shipments to the El Diablo mill near Bishop, Calif. Non-contract bulldozer roadways were also constructed to the DMEA trenches.

OTHER DATA

An estimated cost schedule for the alternative program is listed as follows:

1. Diamond drill 4 holes - 1,000 feet @ $6.50/ft.	$6,500.00
2. Drift southwesterly along favorable limestone beds dependent on results of the diamond drilling program - 600 feet @ $30.00/ft.	18,000.00
Total cost	$24,500.00

Henry W. Jones
Mining Engineer

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

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NOV 22 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

November 17, 1954

Mr. Bennett W. Porter
Tungsten Mountain Mining Company
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada
Contract No. IdM-3737

Dear Mr. Porter:

Relative to above subject docket, we note in our engineer's interim report of October 27, 1954, that your property is currently in production and that shipments are being made to the El Diablo Mill at Bishop, California. We therefore wish to call your attention to Article 3, Annex II to the contract as follows:

> "The Operator shall pay to the Government a royalty on all minerals mined or produced from the land regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid."

We, of course, realize that the Government has not yet contributed to the cost of operations but we thought it advisable to call attention to your obligation in case it had been overlooked.

Checks for royalty payments should be made payable to the Defense Minerals Exploration Administration and sent to this office. When submitting the checks please attach three copies of the settlement sheets.

Sincerely yours,

S. Ricker
S. Ricker
Executive Officer
DMEA Field Team, Region III

Copy to: DMEA, Washington, D. C.

400

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Martin
Selfridge
Whitenbury

NOV 1 0 1954

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region III
400 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3160 - Tungsten
Tungsten Mountain Mining Company
Hilltop mine
Churchill County, Nevada
Contract No. I4n-E707

Dear Mr. Richer:

This will acknowledge receipt of the interim report dated October 27, 1954, on the subject property by Henry W. Jones, Mining Engineer, Bureau of Mines.

Because no royalty payments have been received to date although production is reported in the above-referenced report, we question if the Operator has been informed of his obligation under Article E, Annex II to the contract as follows:

> The Operator shall pay to the Government a royalty on all minerals mined or produced from the land regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid.

If this matter has not been called to the Operator's attention, your office should do so as soon as possible.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/3)

APPROVED:

J. H. Hedges

Member, Bureau of Mines (2/3)

E. L. Newcomb

Member, Geological Survey (2/3)

FARUTLEDGE:FOC / 11-10-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

R.C.J.

P.S. - Royalty, of course, is only due and payable up to the total net amount contributed by the Government.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
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Office of
Executive Officer
DMEA Field Team
Region III

420 Custom House
555 Battery Street
San Francisco 11, California

Date: November 1, 1954

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -
Docket DMEA -3180

Contract Idm-E 707

Commodity Tungsten

Operator - Tungsten Mountain Mining Company

Property - Hilltop Mine
Churchill County, Nevada

By Henry W. Jones, Mining Engineer

Dated October 27, 1954

Executive Officer,
DMEA Field Team, Region III

Attachments

Copy to: R. M. Smith--USGS (with copy of report)
Finance Officer, Region III (with copy of report)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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INTERIM REPORT

Docket No.: DMEA-3180 (Tungsten) October 27, 1954

Name and address of operator: Mr. Bennett W. Porter
Tungsten Mountain Mining Co.,
511 Securities Bldg.,
Seattle 1, Wash.

Name and location of property: Hilltop Mine, Churchill County, Nev.

Contract No.: Idm-E707

SUMMARY AND CONCLUSIONS

The contract between the Government and the Tungsten Mountain Mining Co. for DMEA exploration assistance was signed on September 13, 1954. Stage I to the contract which comprises bulldozer trenching below and to the west of the present Hilltop Mine workings was started on October 10, 1954. Trenching was continuing during the inspection of October 14. No mineralization was noted in the trenches to date.

Work is progressing on the exploration loan as specified in the contract. There have been no unusual difficulties encountered.

WORK COMPLETED

The Hilltop mine was visited in company with Arthur Lakes, geologist and operator, on October 14, 1954. Bulldozing was temporarily delayed during the visit due to mechanical failure but was to be resumed the following day. Work to date consisted of bulldozing two connecting trenches, each approximately 140 feet in length and 5 feet

in depth on the uphill side in the location specified by the contract. Bulldozing is being done by means of an International HD-14 tractor mounting a 12-foot angle blade. The trenches are to be deepened and extended on either end, with an additional series of trenches planned below the present ones.

Non-contract work on the property consisted of extending the No. 1 Tunnel to the northwest, following the strike of the ore body. Ore shipments of an estimated 1.5% WO_3 from this adit are currently being made. DMEA?

OTHER INFORMATION

Ore shipments are being made to the El Diablo mill at Bishop, Calif. The hauling is being done by the McCutchen Trucking Co. of Bishop at a current rate of $9.00 a ton.

Henry W. Jones
Henry W. Jones
Mining Engineer

Elmer 3180

Rocket

Copied from The Mining Record - Thursday, September 30, 1954
Page 5.

NEVADA TUNGSTEN PRODUCER MAKING GOOD PRODUCTION

Fallon, Nev. -- A new high-grade tungsten mine in Churchill county, 85 miles from Fallon, has been brought into production and Tungsten Mountain Mining company has been organized to operate it, according to B. W. Porter, Seattle, one of the principals in the enterprise.

Porter said he and Arthur Lakes, well-known mining geologist, and a group of associates developed the property to the producing stage and are now turning the operation over to the new company, with Lakes in charge.

Further exploration and development of the property is already in progress under a $38,258 contract approved by the defense minerals exploration administration, he stated.

Approximately $65,000 worth of crude tungsten ore has been shipped in the past eight months, Porter said. It went to U. S. Vanadium Corp.'s mill at Bishop, Calif., some 230 miles from the mine, and it netted the company $41,046, he added.

About 17500 tons of ore have been mined from an 80-foot length of tunnel and an open 35x16-foot stope, but only 533 tons averaging 2 per cent tungsten trioxide were shipped. The balance is being stockpiled for eventual milling at the property, Porter stated.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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OCT - 1 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

September 27, 1954

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine, Churchill County, Nevada
Contract No. Idm-E707

Reference is made to Mr. George C. Selfridge's letter of September 13, 1954, transmitting to this office the original and five copies of subject contract.

The contract has been executed on the part of the Operator and one copy retained by him. Attached are the original and two copies for your office, distribution having been made of the Field Team and Finance Officer's copies.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachments

Copy to: A. C. Johnson, Reno (With copy of contract)
Finance Officer, Region III (With copy of contract)
Roscoe Smith, USGS
George Mavor

400

Docket
Surname
Martin
F.J. Johnson

SEP 21 1954

Mr. Arthur Lakes
P. O. Box 456
Fallon, Nevada

Re: Docket No. DMEA 3180 - Tungsten
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

Dear Mr. Lakes:

Reference is made to your letter dated September 12, 1954, inquiring about the status of the subject application.

In accordance with your request the following telegram was sent to Mr. B. W. Porter, Seattle, Washington, on September 16, 1954.

"By letter of September 12, 1954, Arthur Lakes requested we telegraph you status application Docket No. DMEA 3180, Tungsten Mountain Mining Company, Hilltop Mine, Churchill County, Nevada. We sent proposed contract to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region 3, San Francisco, California, on September 13."

No doubt you have already heard from Mr. Miller by this time with reference to the proposed contract.

Sincerely yours,

W. S. Martin, Chief
Iron and Ferro-Alloys Division

foc 9-21-54
cc to: Docket
Code 400
Adm. Reading File

R.C.S.

Docket No. ~~DMEA - 3180~~

Commodity ~~Tungsten~~

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 707

Date of Contract~~amendment~~: Sept. 13,1954

Name and Address of Operator:
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada

Amount of Government participation _____ $ 24,201.00

Percent of Government participation 75 %

Region: 111 State: Nevada

(Name)
J. L. Chambers
Chief, Contract Administration and Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington.

9/13/54

54458

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

Docket

Defense Minerals Administration
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SEP 17 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

September 13, 1954

WSM

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada

Enclosed are three copies of a self-explanatory report prepared by Henry W. Jones covering an inspection of the above mentioned property.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe M. Smith, USGS

Copy retained 4C

A. C. Johnson, Chief, Mining Div., Reg. III Sept. 8, 1954

Henry W. Jones, Mining Engineer, Bureau of Mines, Region III

DMEA-3180, Tungsten Mountain Mining Co., P.O. Box 456, Fallon, Nev.
Hilltop Mine, Churchill County, Nev.

A preliminary examination was made of the Tungsten Mountain Mining Co., formerly the Hilltop Mine, prior to receiving the DMEA contract.

Work since the supplementary report, dated June 10, 1954, consisted of extending the No. 1 tunnel northward along the general strike of the limestone beds for about 50 feet. Scheelite mineralization was noted disseminated throughout the underlying argillite and tactite formations but was of too low a grade to be considered ore.

After the June 1954 supplementary report, the operators stoped the No. 2 tunnel (located 30 feet vertically below No. 1 tunnel) to the surface. A reported 533 tons of 2.0% scheelite ore was shipped from the stope to the U. S. Vanadium plant at Pine Creek, Calif. No preliminary bulldozing or open cuts were made in conjunction with the pending DMEA loan.

Henry W. Jones

Henry W. Jones
Mining Engineer

Interior Dept.

Defense Minerals Exploration Adm.

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

DOCKET
SURNAME

Rutledge
Martin
FE Johnson

Sept. 16, 1954

B. W. Porter
511 Securities Building
Seattle 1, Washington

By letter of September 12, 1954, Arthur Lakes Requested we telegraph you status application Docket No. DMEA 3180, Tungsten Mountain Mining Company, Hilltop Mine, Churchill County, Nevada. We sent proposed contract to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region 3, San Francisco, California, on September 13.

Frank E. Johnson
(by ESF)
ACTING Administrator, Defense Minerals Exploration Administration

WSMartin/foc
9-16-54
cc to: Docket
Code 400
Adm. Reading File
FT. REG. 3
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

Mr. Porter - CONFIRMATION

400

DOCKET
Surname:

Hopkins
Rutledge
Talbert
Kiilsgaard
Keelder
Selfridge
H. Johnson

SEP 13 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Co.
Hilltop Mine
Churchill County, Nevada

Dear Mr. Miller:

We are enclosing the original and five copies of a proposed contract for an exploration program by the above-referenced applicant, signed by the Administrator for the Government, together with Exhibit "A" (2 pages), Annex I (1 page), Annex II (3 pages), and two maps.

If the terms and conditions of the proposed contract are satisfactory to you and the Operator, all six copies should be signed and the usual distribution made.

If any part of the proposed contract does not have either your approval or that of the Operator and cannot be amended within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes, for consideration.

Under Article 3, the starting date has been left blank and is to be filled in when the contract is signed by the Operator.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard
Member, Geological Survey (THK)

Copy to: Docket
Field Team, Reg. 3
Code 400
Adm. Read. File
Oper. Committee
R. W. Geehan, USBM
E. L. Newcomb, USGS

JHopkins/ls
9-8-54

NELSON, B. C.
ROYAL BANK BUILDING
PHONE 20

SPOKANE, WASH.
DAVENPORT HOTEL
PHONE MAIN 2121

ARTHUR LAKES
MINING ENGINEER

P. O. Box 456
Fallon, Nevada
September 12, 1954

Sent to N.T. Top 9-13-54

WSM

C. O. Mittendorf, Administrator
Defense Minerals Exploration Admin.
Interior Building,
Washington 25, D. C.

Dear Sir: Reference Docket No. DMEA 3180

In regards the above Amended Application dated April 21, 1954 by B. W. Porter, 511 Securities Bldg., Seattle 1, Washington, two wires from you received at Seattle August 12th. read as follows:

(1) "Re Docket No. DMEA 3180, amended application dated April 21, 1954, indicates you assigned all your rights in Hilltop mine to Tungsten Mountain Mining Company. In these circumstances, we will not consider your application further but instead will consider application of assigned"

(2) "Re Docket No. DMEA 3180. Please wire us names and addresses of company officers. These needed in preparing contract"

These confirmation copiess were received at Fallon August 17th. and that evening the following telegram was dispatched to you at Washington.

"Retel concerning Docket No. DMEA 3180 the officers of Tungsten Mountain Mining Co. are Bennett W. Porter President & Treasurer, Emil Mottman, Vice President and F. M. Mills, Secretary, all of 511 Securities Building, Seattle 1 Washington" Signed Bennett W. Porter.

Not having heard from you Mr. Porter phoned San Francisco last week. San Francisco informed Mr. Porter that the last they had heard re the above was August 12th.

We are writing this to inquire whether we have overlooked any of your requirements and asking what we can do to expedite this matter so that we can get started and thereby have the work well underway before beginning of winter weather. Please wire Mr. Porter at Seattle.

Yours truly,
Arthur Lakes
For Tungsten Mtn. M. Co.

DOCKET

Hopkins
Martin

Acting Assistant Solicitor,
Defense Minerals

August 20, 1954

Chief, Iron and Ferro-Alloys Division, DMEA

Preparation of Contract
Docket No. DMEA 3180 - Tungsten
Tungsten Mountain Mining Company
Hilltop Mine
Churchill County, Nevada

Transmitted herewith is a rough draft of a proposed contract for your use in preparing the contract in final form.

Additional copies of maps are being made.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Enclosure

cc: Docket
Code 400
Adm. Reading File

JHopkins/ls

Inte[illegible]r Department

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

XXXXXXXXXXXXXXXXXXXXX

T E L E T Y P E

DOCKET
SURNAME

Hopkins
Martin

Mr. Bennett W. Porter
511 Securities Building
Seattle, Washington

Re Docket No. DMEA 3180, Amended Application dated April 21, 1954, indicates you assigned all your rights in Hilltop Mine to Tungsten Mountain Mining Company. In these circumstances, we will not consider your application further but instead will consider application of assignee.

C. O. Mittendorf

C. O. Mittendorf
Administrator, Defense Minerals
Exploration Administration

JHopkins:foc
8-12-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. III
R. W. Geehan, USBM
E. L. Newcomb, USGS
Mr. Porter - CONFIRMATION

CCCCCXXXXXXXXXXXXXXXX

Inte[illegible]r Department
Defense Minerals Exploration
Administration
14X4401(01) Revolving Fund, Defense
Production Act
Interior (Allocated Working Fund to the
Office of the Secretary).

DOCKET
SURNAME
Hopkins
Martin

T E L E T Y P E

AUG 12 1954

Tungsten Mountain Mining Company
511 Securities Building
Seattle, Washington

Re Docket No. DMEA 3180. Please wire us names and addresses of Company officers. These needed in preparing contract.

C. O. Mittendorf

C. O. Mittendorf
Administrator, Defense Minerals
Exploration Administration

JHOPKINS:foc
8-12-54
cc to: Docket
Code 400
Adm. Reading File
FT. Reg. 3
R. W. Feehan, USBM
E. L. Newcomb, USGS

Docket

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

August 4, 1954

Memorandum

WSM

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Aubject: Docket No. DMEA-3180 - Tungsten
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

Reference is made to your July 8 letter requesting certain additional information needed to draw up a contract for work at the Hilltop Mine.

The requested information on the recording of the claims is as follows:

Claim	File	Recording Date	Book	Page
Porter No. 2	78648	October 13, 1953	27	67
Porter No. 3	78649	October 13, 1953	27	68
Porter No. 4	78650	October 13, 1953	27	68
Porter No. 5	78651	October 13, 1953	27	69
Hedi No. 5	80290	July 21, 1954	27	223
Hedi No. 6	80291	July 21, 1954	27	223

The location of the Hedi Nos. 5 and 6 claims is shown on the newly drawn Figure 2, of which four copies are enclosed.

Figure 4 of the report also has been re-drawn to show the correct length of the proposed adit. Four copies of new Figure 4 also are enclosed.

400

In connection with the third paragraph of your July 8 letter, Mr. Johnson informs me that "Stripping was not intended. It should have been trenching to determine mineralization along the vein."

Comments by the Geological Survey on Mr. E. L. Newcomb's memorandum to Mr. W. S. Martin follow:

"The purpose of the proposed work in Phase I is to explore on the surface for the eastward continuation of the ore bodies mined in the existing adits No. 1 and No. 2. The applicant proposed to accomplish this with north-trending bulldozer trenches across the projected position of the ore zone, between the adits and the granite. Trenching near the present showings as suggested by E. L. Newcomb is planned and is being done by the company as part of its exploitation of the ore shoots now being mined. Trenching farther east is proposed as a DMEA project and is more risky but will be guided by information gained from work done while the DMEA contract is being prepared.

"Selection of trenching sites should be made flexible but limited to a distance of 450 feet east of the No. 2 (lower) adit.

"In the supplementary report dated June 8, 1954, the word 'strip' (p. 2, paragraph 1) was incorrectly used. Stage I is to consist of bulldozer trenches across the projected position of the favorable limestone bed, not more than 450 feet east of adit No. 2. If the bed is revealed, additional trenching (not stripping) may be done along the strike of the bed (or segments of the bed) to explore for scheelite-bearing tactite ore bodies within the bed.

"If ore bodies are discovered by this work, then Stage II is necessary reasonably to delineate their size and grade. Stage II should be made subject to the prior written approval of the Government as well as contingent on the revealing of promising showings in Stage I.

"The proposed adit (Stage II) is shown diagrammatically in Figure 4. As the beds are rotated in blocks having divergent strikes and separated by faults, the adit is unlikely to be straight and the proposed crosscuts may be needed to explore for faulted continuations as well as for parallel beds."

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachments

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

400

Docket
Surname
Hopkins
Martin
Kuhan
Selfridge
Johnson
Mittenthorp

JUL 8 - 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3180 - Tungsten
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

Dear Mr. Miller:

Reference is made to the supplementary report on the above named property by R. M. Smith, Geologist, Geological Survey and W. T. Benson, Mining Engineer, Bureau of Mines, dated June 8, 1954.

In this report, it is recommended that bulldozer prospecting be made a part of the proposed exploration work to locate the favorable limestone bed and if the bed is located, to strip the overburden from the surface along the bed. The report states that the location of the surface trenches is to be "200 feet east of and 100 feet below the lowest existing outcrop." In drawing up a contract we will require a more specific location. The location should be tied to something more definite than the lowest existing outcrop.

We do not believe that stripping overburden from the surface along the bed exposed by trenching can be classified as exploration work. We will appreciate receiving from you an estimate of the cost of trenching that does not include stripping.

In addition to the above, the following information and map corrections will be required in drawing up a contract.

1. The date, book and page number of recorded location notices of Porter Nos. 2, 3, 4, 5, Hedi Nos. 5 and 6 mining claims.

2. Show location of Hedi Nos. 5 and 6 claims on property map entitled "Fig. 2, Map of Hilltop and adjoining claims."

R.C.S.

3. Show correct length of proposed adit on map entitled "Fig. 4, Geologic Map of Hilltop mine."

4. A limestone outcrop is shown along road near contour 6800 on "Fig. 4" map. Is this the lowest existing outcrop to which reference is made in the field team supplementary report?

A memorandum dated June 30, 1954, by Mr. E. L. Newcomb, Geologist, U. S. Geological Survey, is enclosed for your information. We will appreciate receiving your comments on the suggestions contained in this memorandum.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosure

APPROVED:

J. H. Hedges

Member, Bureau of Mines (JHB)

Philip W. Guild

Member, Geological Survey (JHB)

JHopkins:foc
7-2-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

IN REPLY REFER TO:

Docket

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

June 30, 1954

Memorandum

Re: DMEA-3180
Hilltop Mine
Churchill County, Nevada
$66,735.55
Tungsten

To: Mr. W. S. Martin, DMEA

From: E. L. Newcomb, USGS

Subject: Review of supplementary field team report

At the time of the original field examination, the field team found that the applicant had completed all of the work requested in his application.

An amended application was then submitted which proposed further exploration to test for the downward continuation of exposed ore deposits. The proposal involves two stages. Stage I consists of trenching to locate a favorable limestone bed and to strip along its strike length. If results of Stage I are encouraging, Stage II will be carried out. This work will consist of driving an 850-foot adit and crosscutting a maximum of 500 feet.

The field team recommends a two-stage program be approved. However, they recommend the crosscutting be limited to 200 feet.

The field team proposes trenching about 200 feet east of the lowest (down the slope) limestone outcrop. One can only assume that they are referring to the limestone (?) on fig. 4. If the favorable limestone is located, the overburden will be stripped off along the strike of the bed. Though our information is limited, the limestone-tactite zones probably are not simple continuous beds and zones. In the original field team report, the general structure and attitude of the favorable beds are referred to in these terms - "the beds are rotated in blocks having divergent strikes."

Instead of starting far to the east of known mineralization, it would be more feasible to start trenching near present tungsten showings and in a series of crosscut trenches to progressively move eastward down the hill.

This property warrants further exploration, but more trenching should be done before any drifting and crosscutting are allowed. I do not believe that any underground work can be properly planned until a thorough trenching program is completed.

I recommend the proposed project be limited at this time to trenching at suitable intervals along the length of the proposed drift.

Copy retained 40

E. L. Newcomb
E. L. Newcomb
Geologist

Docket

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

420 Custom House
555 Battery Street
San Francisco 11, California

June 22, 1954

WSM

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3180 (Tungsten)
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

In accordance with the last paragraph of my letter of June 15 relative to above subject docket, I am enclosing the original and three copies of the breakdown of the estimated cost of $35.00 per foot for drifting and crosscutting.

S. Ricker for
H. C. Miller
Executive Officer, DMEA Field Team
Region III

Attachment

Copy to: R. M. Smith (USGS)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1605 Evans Ave.
RENO, NEVADA

	Date
SRicker	
Answered	

June 17, 1954

Memorandum

To: H. C. Miller, Executive Officer, DMEA Field Team, Region III

From: Chief, Mining Division, Region III

Subject: Docket No. DMEA-3180 (Tungsten) Hilltop Mine, Churchill County, Nevada (Supplementary Report)

In compliance with your request of June 15, 1954, the following is a breakdown of costs for bulldozing and drifting and crosscutting on the Hilltop tungsten mine, Churchill County, Nev.:

For Stage I, it is assumed that 8 days would be required at an estimated cost of $96.00 per day or $748.00.

Stage II: Drifting and crosscutting 1050' ÷ 8 = 131 days = 262½ shifts
4/shift 8/day. 1 Miner + 2 Muckers per shift

Labor	Total cost	Per foot	
2 Miners at $20.00 per shift	$40.00		
2 Muckers at $17.00 per shift	34.00		
Total	$74.00		
Breaking and mucking	$15,540.00	$14.80	10.81
powder, fuse, and caps	3,150.00	3.00	2.84
Supplies	6,163.50	5.87?	5.88
Freighting supplies	2,446.50	2.33?	2.00
Rental of equipment	4,200.00	4.00	4.00
Hauling fuel & water	1,050.00	1.00	1.00
Supervision	4,200.00	4.00	4.00
Total	$36,750.00	$35.00	30.66

A. C. Johnson

A. C. Johnson

5 Miners @ $16.50 per day for 8 feet advance.

$16.50 = 15.00 (pay rate) + 10% for Comp. Ins. & Soc.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1954 JUN 29 PM 2:02

SAN FRANCISCO, CALIFORNIA

1605 Evans Ave.
~~xxxxxxxxxx~~

June 17, 1954

Memorandum

To: W. C. Miller, Executive Officer, DMEA Field Team, Region III

From: Chief, Mining Division, Region III

Subject: Docket No. DMEA-3180 (Tungsten) Hilltop Mine, Churchill County, Nevada (Supplementary Report)

In compliance with your request of June 15, 1954, the following is a breakdown of costs for bulldozing and drifting and crosscutting on the Hilltop tungsten mine, Churchill County, Nev.:

For Stage I, it is assumed that 8 days would be required at an estimated cost of $96.00 per day or $768.00.

Stage II: Drifting and crosscutting

Labor	Total cost	Per foot
2 Miners at $20.00 per shift	$40.00	
2 Muckers at $17.00 per shift	34.00	
Total	$74.00	
Breaking and mucking	$15,540.00	$14.80
powder, fuse, and caps	3,150.00	3.00
Supplies	6,163.50	5.87
Freighting supplies	2,446.50	2.33
Rental of equipment	4,200.00	4.00
Hauling fuel & water	1,050.00	1.00
Supervision	4,200.00	4.00
Total	$36,750.00	$35.00

A. C. Johnson

1605 Evans Ave.

June 17, 1954

Memorandum

To: W. C. Miller, Executive Officer, DMEA Field Team, Region III

From: Chief, Mining Division, Region III

Subject: Docket No. DMEA-3180 (Tungsten) Hilltop Mine, Churchill County, Nevada (Supplementary Report)

In compliance with your request of June 15, 1954, the following is a breakdown of costs for bulldozing and drifting and crosscutting on the Hilltop tungsten mine, Churchill County, Nev.:

For Stage I, it is assumed that 8 days would be required at an estimated cost of $96.00 per day or $748.00.

Stage II: Drifting and crosscutting

Labor	Total cost	Per foot
2 Miners at $20.00 per shift	$40.00	
2 Muckers at $17.00 per shift	34.00	
Total	$74.00	
Breaking and mucking	$15,540.00	114.80
powder, fuse, and caps	3,150.00	3.00
Supplies	6,163.50	5.87
Freighting supplies	2,446.50	2.33
Rental of equipment	4,200.00	4.00
Hauling fuel & water	1,050.00	1.00
Supervision	4,200.00	4.00
Total	$36,750.00	$35.00

A. C. Johnson

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

June 15, 1954

Memorandum

WSM

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3180 - Tungsten
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

Reference is made to your letters dated March 23 and May 6, 1954, concerning an amended application for exploration assistance under the subject docket.

Attached are four copies of a supplementary report entitled "DMEA-3180, Hilltop Mine, Churchill County, Nevada," by R. M. Smith, Geologist, U. S. Geological Survey, and W. T. Benson, Mining Engineer, U. S. Bureau of Mines, dated June 8, 1954.

After a second examination of this property, the engineer and geologist have recommended that the showings at the property warrant further exploration work. Recommendations have been made for bulldozing and driving an adit with some crosscutting from the adit to more thoroughly explore the property.

Stage I of the project wouldbe surface trenching, and Stage II of the work would be the driving of the adit with the crosscutting. Stage II of the program should be subject to prior approval of the Government.

I concur with the recommendations that have been made by the examining engineer and geologist.

Reviewed by
DMEA OPERATING COMMITTEE
6-25-54
(date)

I note that the examiners again have submitted no breakdown of how they arrived at a cost of $35.00 per foot for drifting and crosscutting. As you will need this information in drawing up a contract, I am requesting the justification for that cost from Reno and will send it on as soon as received.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

7/6/54

Supplementary Rec-nit

SUPPLEMENTARY REPORT

DMEA-3180, Hilltop Mine

Churchill County, Nevada

R. M. Smith, Geologist
U. S. Geological Survey

W. T. Benson, Mining Engineer
U. S. Bureau of Mines

June 8, 1954

Reviewed by
DMEA OPERATING COMMITTEE
6-25-54
(date)

SUPPLEMENTARY REPORT

Docket No.: DMEA-3180 (Tungsten)

Name and address of applicant: Bennett W. Porter
511 Securities Building
Seattle 1, Wash.

Name and location of property: Hilltop Mine
Clan Alpine Mining District
Churchill County, Nevada

During the latter part of 1953, Mr. Bennett W. Porter, 511 Securities Building, Seattle 1, Wash., applied to the Defense Minerals Exploration Administration for Government assistance to explore surface and underground showings of scheelite on the Hilltop claim, situated in the Clan Alpine Mining District, Churchill County, Nev.

In the original request the applicant proposed to construct 9,050 feet of road, trench the area by using a bulldozer, erect an ore bin, do 100 feet of drifting, and establish a small mine plant and a camp estimated to cost $29,272.

As most of the proposed work for which assistance was requested had been completed, no action could be taken by the examining engineer and geologist on the original proposal.

Since then an amended application dated April 21, 1954 proposes to explore for the downward continuation of ore bodies being mined by a program consisting of two stages, estimated to cost $66,735.55.

Stage I consists of bulldozing surface trenches 200 feet east of and 100 feet below the lowest existing outcrop to locate the favorable limestone bed and, if the bed is located, to strip the overburden from the surface along the bed.

Stage 2 consists of driving an adit on the best showing (see fig. 4) 850 feet northwest along the favorable limestone bed, and from the adit crosscut north and south at several places, a total of 500 feet. It is estimated the work would require 8 months to complete. The work is well planned to explore the property but it is suggested that stage 2 be made subject to prior approval of the Government, which would be contingent on the revealing of promising showings in stage 1, and that crosscutting be limited to 200 feet.

Costs submitted by the applicant to accomplish the proposed work are considered excessive by the examining engineer and geologist, and it is estimated that the work proposed can be accomplished by a considerable reduction in cost. Funds necessary to complete the proposed work are estimated as follows:

8 x 96.00 = $768.00

Stage I:

Bulldozer prospecting one D8 angle dozer 8 days @ $96.00 = $744.00

$12/hr

Stage II:

Drifting & crosscutting 1,050 feet @ $35.00/ft.	$36,750.00
Total	$37,494.00
	$37,518.00

The request for a new road is not deemed necessary at this time since the existing road is sufficient for present needs. Improvements, installations and additions to present buildings are denied, since present facilities are adequate.

It is concluded and recommended by the examining geologist and engineer that continuity in depth of the surface showings are substantiated by production of ore from the No. 1 adit, and that additional exploration, substantially as proposed by the applicant, is warranted by these showings.

It is recommended, therefore, that the Government enter into a contract with the applicant to do the work proposed in stages 1 and 2 of the program as set forth in the amended application, and also that the contract be written on a unit basis with crosscutting and drifting at an agreed unit cost of $35.00 per foot.

On a matching fund basis, the Government's share would amount to $28,120.50.

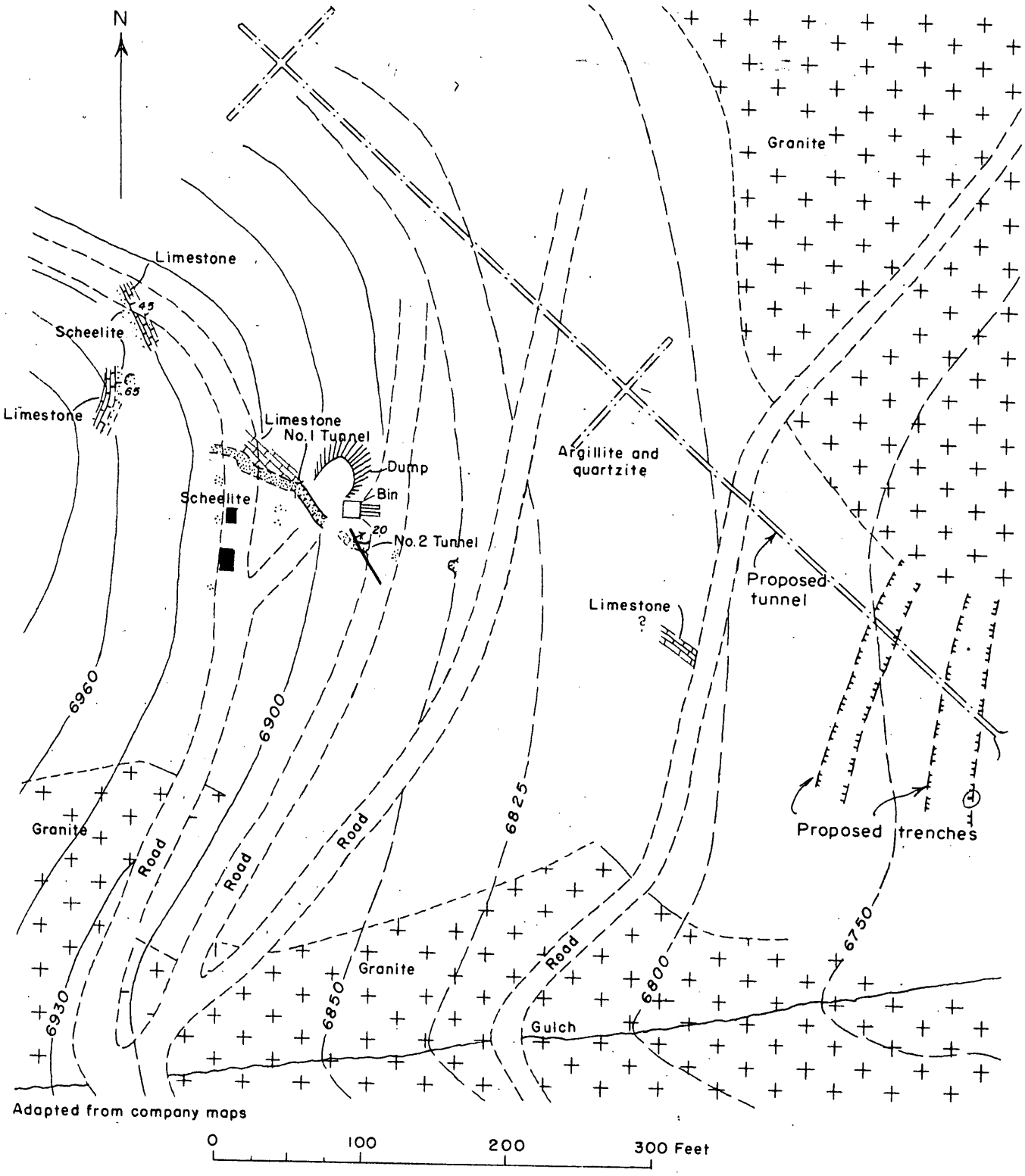


FIGURE 4. GEOLOGIC MAP OF THE HILLTOP MINE, CHURCHILL COUNTY, NEVADA

400

Docket
Surname

Hopkins
Martin
Selfridge
H Johnson

MAY 6 - 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
Mint Plaza Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3180 - Tungsten
Bennett W. Porter
Millsap Mine
Churchill County, Nevada

Dear Mr. Miller:

Receipt is acknowledged of copies of an amended application for exploration assistance under the above-referenced docket.

As you are scheduling another field examination of the property we will hold the application in abeyance until we receive the field team's report.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Philip W. Guild
Member, Geological Survey

JHopkins:foc
5-3-54
cc to: Docket
Code 400
Operating Comm.
Adm. Reading File
FT. Reg. 3
R. W. Geehan, USBM
T. P. THayer, USGS

Docket
Surname

Hopkins
Martin
Guild
Hedges
Selfridge
Johnson

MAY 6 - 1954

Mr. Bennett W. Porter
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA 3180 - Tungsten
Hilliag mine
Churchill County, Nevada

Dear Mr. Porter:

Your amended application for exploration assistance at the above referenced mine has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, Room 1012 Flood Building, 870 Market Street, San Francisco 2, California for further consideration and another field examination.

At the time the examination is made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JHOPKINS:foc
5-4-54
cc to: Docket
Code 100
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

Docket

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

April 23, 1954

W504

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3180 - Tungsten
Bennett W. Porter
Hilltop Mine, Churchill County, Nevada

Reference is made to your letter dated March 23, 1954, requesting that I notify the applicant to submit an amended application if he is interested in applying for exploration assistance. The operator was so notified in writing on March 29, and by letter dated April 21, Mr. Arthur Lakes, Regional Representative and Geologist for the applicant, transmitted four copies of an amended application to this office.

Three copies of the amended application are being sent to you herewith. The fourth copy is being retained by us for use by our field engineers and geologists, who have been requested to make another field examination of the property and to report on the merits of the new proposal.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

copy of amended appl. sent to USGS & USBM 4-27-54

Docket

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

Defense Minerals Administration
Mail
APR - 2 1954

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

March 29, 1954

W3M

Mr. Bennett W. Porter
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA-3180 - Tungsten
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

Dear Mr. Porter:

Reference is made to the above-docketed application for exploration assistance. The application was referred to this office for a field examination on October 14, 1953, and on November 10, 1953, the property was examined by an engineer of the Bureau of Mines and a geologist of the Geological Survey. The engineer and geologist's report on the property, dated March 5, 1954, was sent to the Washington office on March 12, 1954.

The referenced report brings out that the scheelite showings are sufficient to warrant additional exploration, but no recommendations for approval of the subject application were indicated because you had completed most of the proposed work.

Inasmuch as the prospect appears to have merit, we would appreciate hearing from you if you might not wish to apply for assistance in further exploration of your property. We would be happy to give such desires immediate attention.

In case you are interested, an amended application in which the proposed new work is outlined should be submitted in quadruplicate to this office.

In view of the possibility that you might be interested in making an amended application, we will keep the file on your original application open for an additional thirty days pending receipt of word from you of your wishes in this matter.

Sincerely yours,

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Copy to: DMEA, Washington, D. C.
R. M. Smith, USGS
A. C. Johnson, Reno

400

DOCKET
SURNAME
Rutledge
Martin
Selfridge
Hedges
Mitchendorf

MAR 23 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3180 - Tungsten
Bennett W. Porter
Hilltop mine
Churchill County, Nevada

Dear Mr. Miller:

The subject application for exploration assistance was referred to your office on October 14, 1953, for a field examination. On November 10, 1953, the property was examined by representatives of the Geological Survey and Bureau of Mines. On March 16, 1954, we received copies of the Field Team's joint report of examination dated March 5, 1954.

The referenced report noted that though the scheelite showings are sufficient to warrant additional exploration, no recommendations for approval of the subject application are being made because the Operator had completed most of the proposed work.

Inasmuch as the prospect appears to have merit the Field Team should notify the applicant in writing that if he is interested in applying for other exploration assistance, an amended application should be submitted. If no data are received, the matter should be handled according to Operating Committee's Memorandum No. 12, dated December 3, 1952.

Sincerely yours,

George C. Selfridge (JHB)
Chairman, Operating Committee

APPROVED:

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

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

FARutledge:foc 3-19-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.S. 3-23-54

We should tell the field to give the applicant the stan "more information required tho If he doesn't come up with a program after the regular rou we should no longer "hold in ab but should "withdraw from a active file"

3/19/54

The RT let to the applicant should mention that "the prospect appears to have merit," but —

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

400

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

March 12, 1954

Memorandum

WSM

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3180 - Tungsten
Bennett W. Porter
Hilltop Mine
Churchill County, Nevada

Reference is made to your letter dated October 14, 1953, requesting a field examination of the subject property.

Attached are four copies of an examination report entitled "DMEA-3180, Hilltop Mine, Churchill County, Nevada, (Tungsten)," by W. T. Benson, Mining Engineer, U. S. Bureau of Mines, and Roscoe M. Smith, Geologist, U. S. Geological Survey, dated March 5, 1954.

According to the examining engineer and geologist, the scheelite showings are sufficient to warrant additional development, but since (as stated on pages 2 and 8 of the report) the operator has completed most of the proposed work, no recommendations for approval of this application are being made.

The applicant was requested orally at the time of the examination to submit a supplemental program but to date he has not complied.

H. C. Miller

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

4/1
3/22/54

Conrite
Pgt

DMEA-3180, Hilltop Mine
Churchill County, Nevada

(Tungsten)

W. T. Benson, Mining Engineer
U. S. Bureau of Mines

Roscoe M. Smith, Geologist
U. S. Geological Survey

March 5, 1954

EXAMINATION REPORT

Docket No.: DMEA-3180 (Tungsten)

Name and address of applicant: Bennett W. Porter
511 Securities Building
Seattle 1, Wash.

Name and location of property: Hilltop Mine
Clan Alpine Mining District
Churchill County, Nevada

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Mr. Bennett W. Porter, 511 Securities Building, Seattle 1, Wash., applied to the Defense Minerals Exploration Administration for government assistance in a $29,272.18 program to explore surface and underground showings of scheelite on the Hilltop claims, situated in the Clan Alpine Mining District, Churchill County, Nev.

A field examination was requested by the Executive Officer, DMEA Field Team, Region III, to determine whether the ore reserves are sufficient to justify the project proposed by the applicant and to obtain data necessary to complete a contract. Accordingly, an examination was made on November 10, 1953 by W. T. Benson, Mining Engineer of the U.S. Bureau of Mines and Roscoe M. Smith, Geologist of the U. S. Geological Survey.

The applicant proposed to construct 9,050 feet of road, trench the area by using a bulldozer, erect an ore bin, do 100 feet of drifting,

and establish a small mine plant and a camp estimated to cost $29,272.

The scheelite showings on the property are sufficient to warrant additional development, but since most of the proposed work for which assistance was requested has been completed, no recommendations are being made at this time.

However, in the event additional work is contemplated, it would be necessary for the applicant to re-submit a new proposal for consideration of the Defense Minerals Exploration Administration.

INTRODUCTION

In connection with an application for exploration assistance (docket DMEA-3180), the property of the Hilltop Mine was visited on November 10 and 11, 1953 by W. T. Benson of the U. S. Bureau of Mines and Roscoe M. Smith of the U.S. Geological Survey. The purpose of the visit was to inspect development openings that pertained to Mr. Bennett W. Porter's application for aid in exploring tungsten showings found on the Hilltop claim.

PROPERTY HOLDINGS AND ACCESSIBILITY

Property holdings of the Hilltop mine comprise 14 unpatented lode mining claims and one placer claim which are held by location. They are situated in the Clan Alpine Mining District, T. 19 N., R. 37 E., Churchill County, Nev., about 90 miles east of Fallon, the supply and shipping point on the Hazen to Fallon branch line of the Southern

Pacific Railroad.

To reach the property from Fallon, Highway 50 is followed east 58 miles to Eastgate. From this point, an improved graveled road is traveled north through Clan Alpine Valley to the mine road turnoff. The mine road , in poor repair, is followed north and west four miles to the Nevada Gold Mine camp. From the camp, a newly constructed road is followed about 9,000 feet to the tungsten showing which is located on the east side and near the crest of an eastward trending ridge which fronts the Clan Alpine valley on the west.

COMPETENCY OF APPLICANT

The experience of Bennett W. Porter, owner of the property, consists of 19 years of mining development. Actual work will be under the direction of Arthur Lakes, mining engineer, whose experience record covers 30 years.

HISTORY

The alpine (Clan Alpine) district was organized as the Clan Alpine District in 1864 and a mill was built in 1866, but the camp was abandoned shortly afterward and has been inactive since.

Tungsten mineralization was first discovered on the property by G. C. Staggs and A. J. Quilici who located the quartz claim on November 25, 1951. In the spring of 1953, the claim was sold to Bennett W. Porter, 511 Securities Building, Seattle 1, Wash. The claim name was changed to the Hilltop, and 13 claims known as the

Porter group 1 to 4, the Hattie group 1 to 3, the Garnet group 1 to 5 and a placer claim were later located.

Considerable dozer trenching has been done on the property, and the road from the camp to the deposit practically completed. Aside from a few pits and trenches, nothing has been done to develop the tungsten showing. There has been no production from the property.

PHYSICAL FEATURES

The claims are located in an area of steep and rough topography on the east flank of the Clan Alpine mountain range. In the vicinity of the property, the altitudes vary from 6,000 to 7,500 feet. The climate in the area is semi-arid with long, hot summers and moderately cold winters. Precipitation occurs usually as snow with occasional rains during the fall and spring months. Winter storms are sometimes severe enough to impede or stop access to the area for a few weeks at a time.

Water for domestic and mine use is scarce. There are three small springs in a radius of three miles. The flow from these springs is small and uncertain. It is possible water could be developed by drilling a well in the valley a few miles east of the property. A scattered growth of juniper and pinon pine constitute the vegetation on the property.

No transmitted electric power is available, and for generation of power, fuel oil is supplied in drums by truck from Fallon, 91 miles west.

HOUSING FACILITIES

Recently the camp was moved from the Nevada Gold camp property to the Byers ranch, 7 miles southeast of the property. It comprises four trailer houses of varying sizes which are sufficient to accommodate a crew of eight to ten men.

EQUIPMENT

Equipment on the property includes a 115 cubic feet portable compressor, compression drills and a small assortment of hand tools.

DEVELOPMENT

Development openings on the property consists of five small trenches varying in length from 3 to 10 feet which have been excavated to depths of 2 to 4 feet.

Recently four dozer cuts varying in length from 200 to 400 feet have been excavated at irregular intervals along the east slope of the hill in the vicinity of the tungsten showings. No worthwhile tungsten-bearing areas were disclosed in these trenches.

GEOLOGY

In the area of the Hilltop claims, the Clan Alpine Mountains consist of shale, argillite, and limestone which have been intruded by a stock of granite.

In the vicinity of the property, the principal rock is a shale unit about 2,000 feet thick which strikes north and dips 40-79° east. It is thin bedded near the base; toward the top it contains a few limy beds. Small

bodies of tactite have been formed along limy beds near the granite stock.

The intrusive stock ranges in composition from granite to granodiorite and is about 4,000 feet in diameter.

The sedimentary and intrusive rocks are overlain by andesite and rhyolite tuffs, flows, and agglomerates of probable Tertiary age which strike north and dip gently west.

Near the contact of the sedimentary rock with the granite, the shales are metamorphosed to hornfels, the limy beds are marblized, and the beds are rotated in blocks having divergent strikes.

ORE DEPOSITS

The Tungsten ore bodies are small irregular tactite layers which occur interlayered in marble and hornfels. In some places as much as a third of the rock is tactite. The tactite layers range from 1 to 12 inches in width and is composed principally of quartz, epidote, and garnet.

Scheelite, the only tungsten mineral observed, occurs disseminated in tactite and also in seams along fractures in tactite and hornfels.

Ore bodies occur in two different localities on the Hilltop claim (figure 3), one is near the discovery monument and another at a lower altitude east of the discovery monument.

The Discovery ore body is a tactite and hornfels layer as much as 5 feet thick which strikes northeast and dips about 60-70° SE. with the regional strike and dip of the sedimentary beds at a distance of about 400 feet from the granite contact. Samples taken by the U.S. Bureau of

Mines gave an average grade of 1.53 percent WO_3 across a width of 2.25 feet.

In the Lower ore zone two tactite and hornfels layers as much as 10 feet wide in a zone 40 feet wide strike west and dip about 70° N. Here the scheelite-bearing tactite is about 200 feet from the granite contact. Samples averaged 0.96 percent WO_3 across a width of 5.0 feet.

SAMPLING

Samples were taken of tungsten-bearing material exposed in the shallow surface openings. Details regarding them follows:

Sample No.	%, WO_3	Description
1616	0.60	Cut across 18 inches silicated limestone in disc. cut.
1617	0.08	Cut across 5 feet, south fraction in trench at station C.
1618	0.01	Cut across 5 feet, north fraction in trench at station C.
1619	1.38	Cut across 5 feet in trench at station 68.
1620	1.50	Cut across 5 feet in lowest trench.
1621	2.00	Chip along 12 feet in trench 10 feet above disc. cut.
1622	1.05	Cut across 5 feet in trench north of cut C.

ORE RESERVES

There are no measured ore reserves on the Hilltop claim. A few tons of ore containing 1.0 to 1.5 percent WO_3 are indicated in the prospect pits at both exposures. A few hundred tons of ore may be inferred along the downward continuation of both ore bodies.

PROPOSED EXPLORATION

The applicant proposed to do 9,050 feet of road building, bulldozing, drifting, and establishing a small mine plant and a camp which was estimated to cost $29,272.

When the examining team visited the property in November 1953, the road work had been completed, four dozer trenches excavated, and a camp established on the Byer ranch 7 miles southeast of the property. In all, the major portion of the proposed work has been accomplished.

Preparations were being made to construct an ore bin and start the short adit to undercut the mineralized areas found in the surface trenches.

Since the proposed work for which assistance was requested is practically completed, no recommendations are being made at this time.

In the event additional work is contemplated, it would be necessary for the applicant to re-submit a new proposal for consideration of the Defense Minerals Exploration Administration.

CONCLUSIONS

Tungsten ore of minable grade is exposed in shallow surface workings. In all probability, these showings will be developed by the applicant. Since most of the work for which assistance was requested has been completed, no recommendations are being made at this time, but if the applicant wishes to re-submit a new proposal, such new proposal would have to be considered on its merit, and probably would require a re-examination of the property.

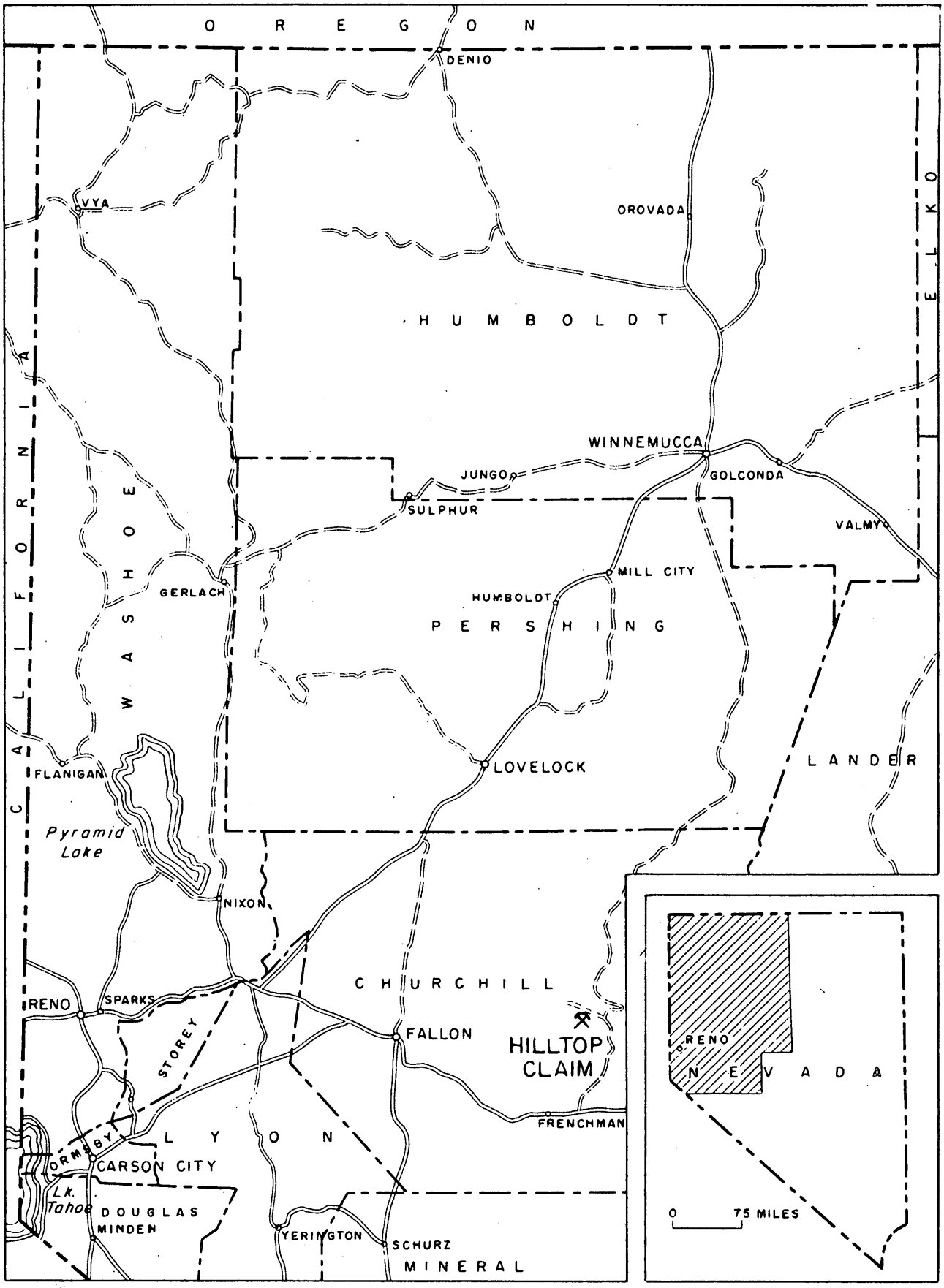
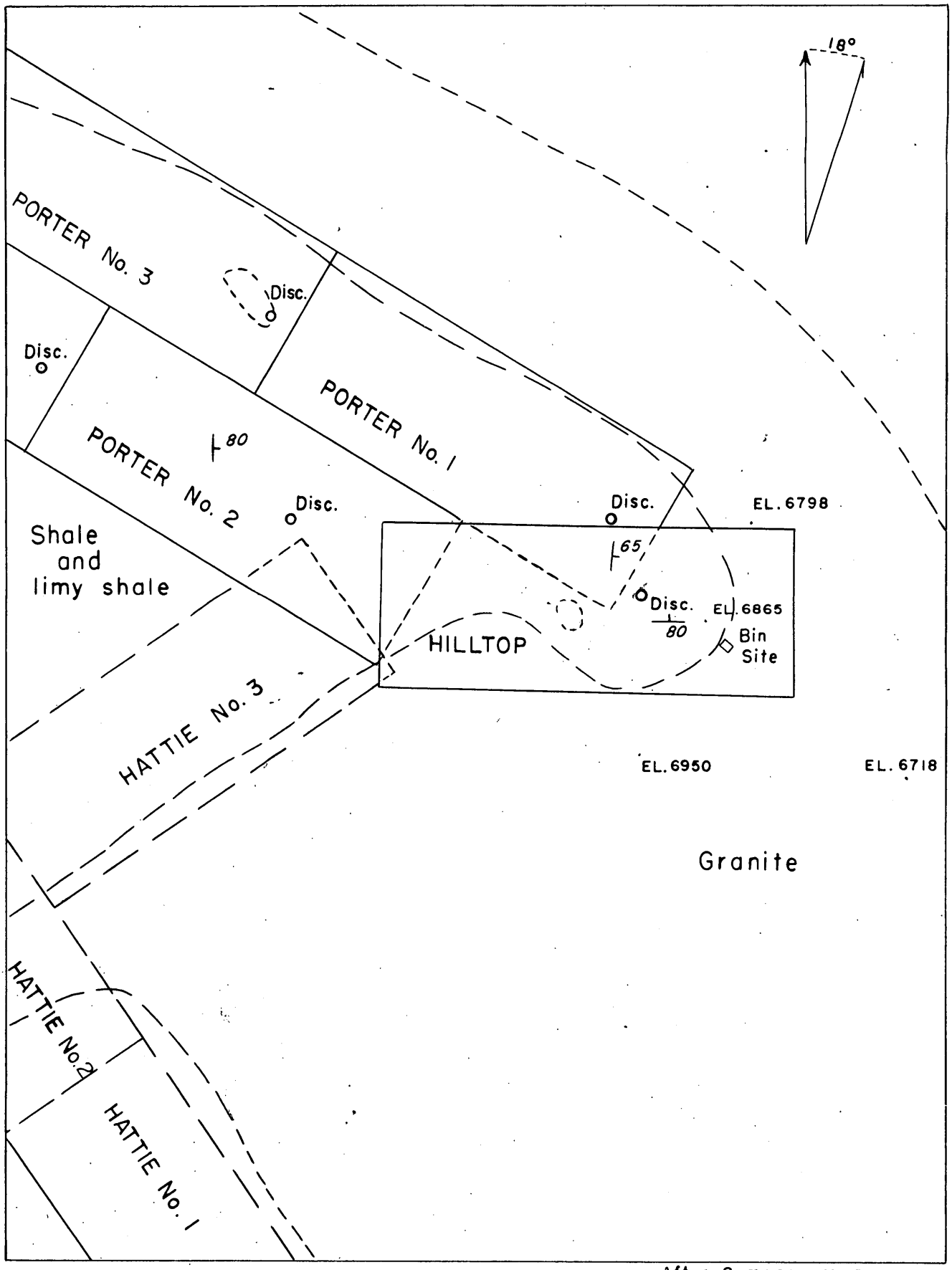


FIG. 1 INDEX MAP OF NORTH WEST NEVADA

10 0 10 20 MILES

6 Copies of Map

"Fig 2 Map of Hilltop and Bryan's Shoal"



After Company maps

FIG. 2 MAP OF HILLTOP AND ADJOINING CLAIMS

500 0 500 1000 1500 FEET

SCALE

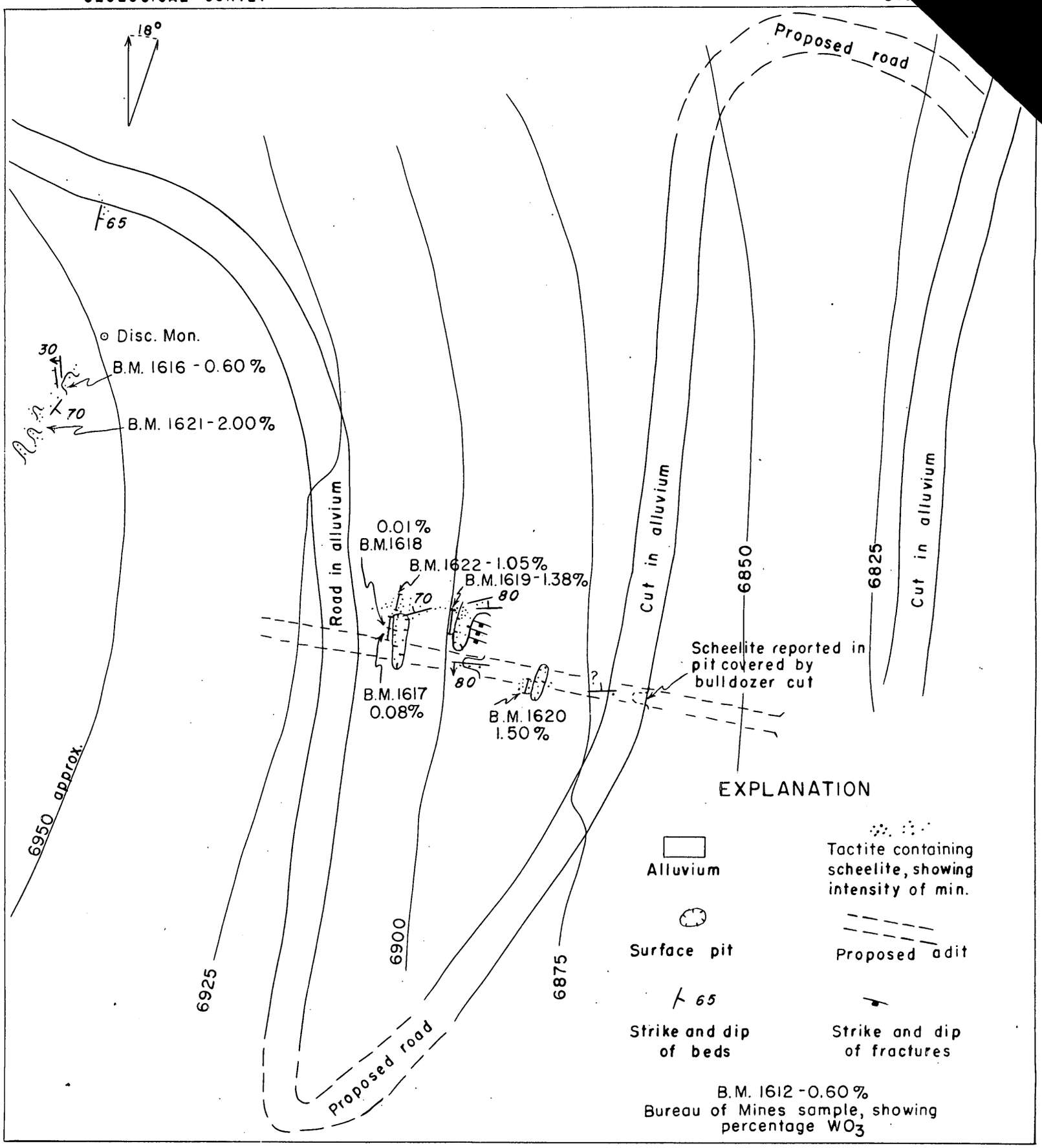


FIG. 3 GEOLOGIC SKETCH MAP OF HILLTOP PROSPECT

CHURCHILL CO. NEVADA

0 40 80 FEET

Defense Minerals Administration
NOV - 6 1953

Box 456
Fallon, Nevada
November 1, 1953

Frank E. Johnson,
Acting Administrator,
U. S. Dept. of Interior
Defense Minerals Exploration Adm.
Washington 25, D. C.

3180

WSM

Re: Docket No. DMEA 3180-Tungsten, Hilltop Mine,
Churchill County, Nevada.

Dear Sir:

In answer to yours of October 14th. addressed to my Seattle office we will be pleased to assist your field team in any way we are able during examination of our Hilltop property.

Yours truly,

Bennett W. Porter

(Bennett W. Porter)

No reply necessary

FILE COPY
SURNAME:

400

Rutledge
Martin
Weber
Thayer
Hedges
Selfridge
Eltzmann

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

OCT 14 1953

Mr. Bennett W. Porter
511 Securities Building
Seattle 1, Washington

Re: Docket No. DMEA 3180 - Tungsten
Hilltop mine
Churchill County, Nevada

Dear Mr. Porter:

Reference is made to the above-docketed application for exploration assistance which has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination of the property.

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the field team during the examination will be appreciated.

Sincerely yours,

Frank E. Johnson (for)

ACTING Administrator

FARUTLEDGE:foc
10-8-53
cc: Docket
Code 400
FT. Reg. 3
Admr. Reading File
Operating Comm.
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.G. 10-14-53

FILE COPY
SURNAME:

400

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

Rutledge
Martin
Hedges
Selfridge
Johnson

OCT 14 1953

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3180 - Tungsten
Bennett W. Porter
Hilltop mine
Churchill County, Nevada

Dear Mr. Miller:

Reference is made to the above-docketed application for exploration assistance which is being referred to your office for a field examination of the property.

A memorandum by T. P. Thayer, Geological Survey, has been prepared and is enclosed for your information.

An access road is included in the proposed exploration program. If the examining field team believes that the other claims owned by the applicant adjacent to the Hilltop group may benefit from this road and a project is to be recommended, these other claims should be included in the property description.

Sincerely yours,

George C. Selfridge (2B)
Chairman, Operating Committee

Enclosure

APPROVED:

J. H. Hedges (2B)
Member, Bureau of Mines

T. P. Thayer (2B)
Member, Geological Survey

FARutledge:foc
10-7-53
cc: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.B. 10-14-53

IN REPLY REFER TO:

Docket

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

Defense Minerals Administration
RECEIVED
OCT 5 1953

October 2, 1953

Memorandum

WSM

To: W. S. Martin, DMEA

From: T. P. Thayer, USGS

Subject: DMEA-3180, Tungsten
Bennett W. Porter
511 Securities Building
Seattle 1, Washington

The applicant proposes to spend $29,272 on road building, bulldozing, and 200 feet of drifting in a vague direction, on the Hilltop mine, 29 miles by road northeast of Eastgate, Churchill County, Nevada.

Assays are said to range from 5.8 to 12.0 percent WO_3 in tactite partially surrounded by granite. With such assays, one cannot help wondering what the applicant is waiting for, when it is recalled the claims were staked in 1951.

The Geological Survey has no information on the deposit, and the application will have to be referred to the Field Team. The Field Team should check the sampling, and in addition to the usual geological problems, consider carefully the water problems.

T. P. Thayer

T. P. Thayer

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

September 30, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA-3180 Porter, Bennett W.

ROBERT E. ADAMS

Robert E. Adams
Chief, Operation's Control
and Statistics Division

COPY

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

September 30, 1953

Mr. Bennett W. Porter
511 Securities Building
Seattle 1, Washington

Subject: DMEA-3180
Re: Exploration Assistance
Hilltop Mine

My dear Mr. Porter:

The receipt of your application dated 9/25/53 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number 3180 and referred to the Iron and Ferro Alloys Division.

Kindly refer to DMEA 3180 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operation's Control
and Statistics Division

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1953

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

Sept. 25, 1953

Memorandum

To: Defense Minerals Exploration Administration,
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan Application Forms MF-103 - Tungsten
Bennett W. Porter, 511 Securities Bldg., Seattle, Washington
Hilltop Lode Mining Claims, Churchill County, Nevada

Attached are three sets of MF-103 forms delivered today to this office personally by Mr. Porter, making application for a loan totalling $29,272.18. The fourth set has been retained for our records.

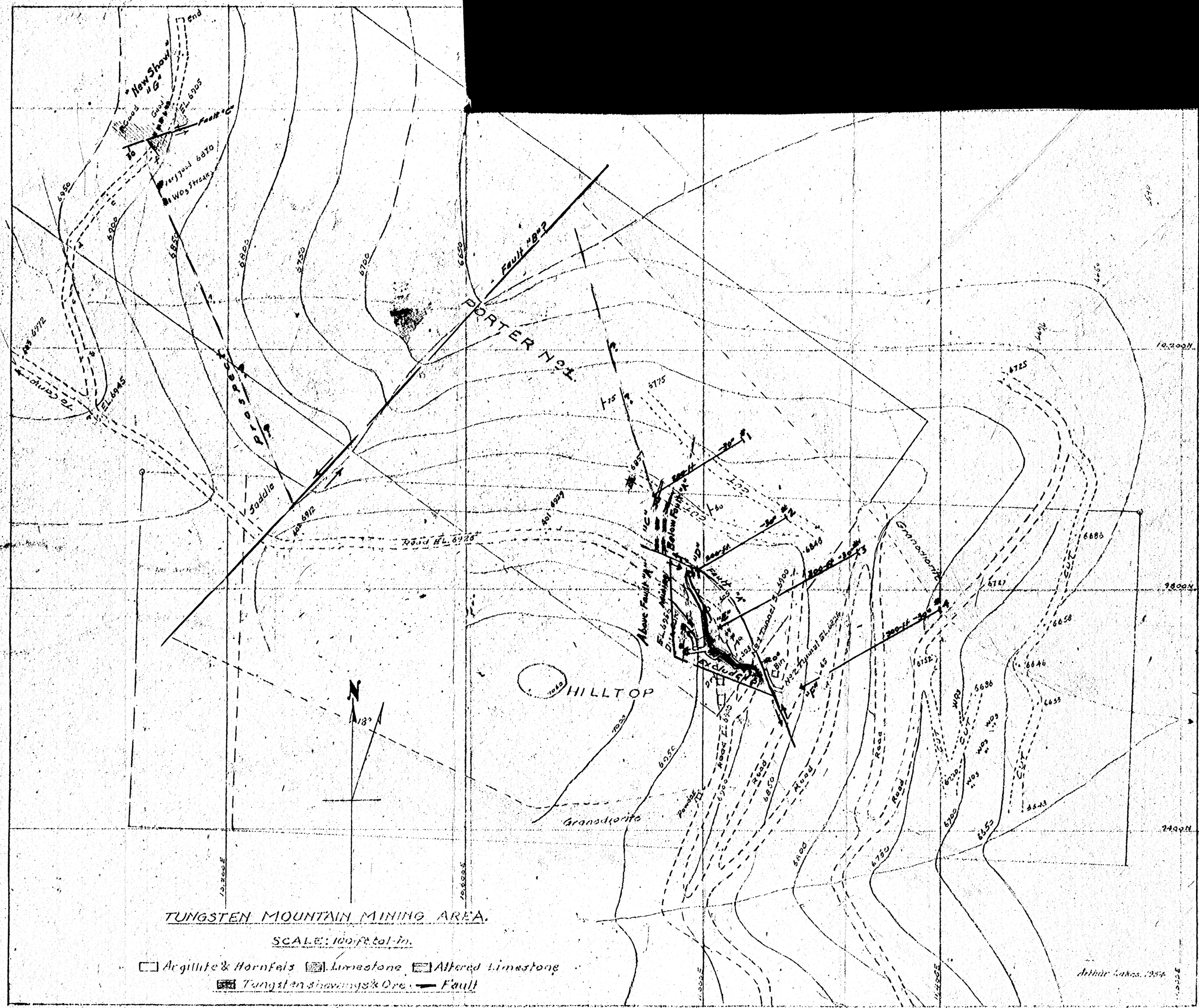
H. C. Miller
Executive Officer, DMEA Field Team
Region III

Attachment

We should include all claims under property that might benefit from discussing or development

Road access

all of Porter George and possibly other if access will be improved by DMI A road construction.


TUNGSTEN MOUNTAIN MINING AREA.
SCALE: 100 ft. to 1-in.
Argillite & Hornfels
Limestone
Altered Limestone
Tungsten showings & Ore
Fault
Arthur Lakes, 1954
HILLTOP
PORTER NOT
Prospect
Granodiorite
Saddle
Fault "B"
Fault "C"
"New Show" "G"
Above Fault "A"
Below Fault "A"
Road EL. 6925
To Camp
Road
Bin
Powder
CUT
10,200N
9800N
9400N
10,200E
10,600E
10,800E
11,000E
11,200E

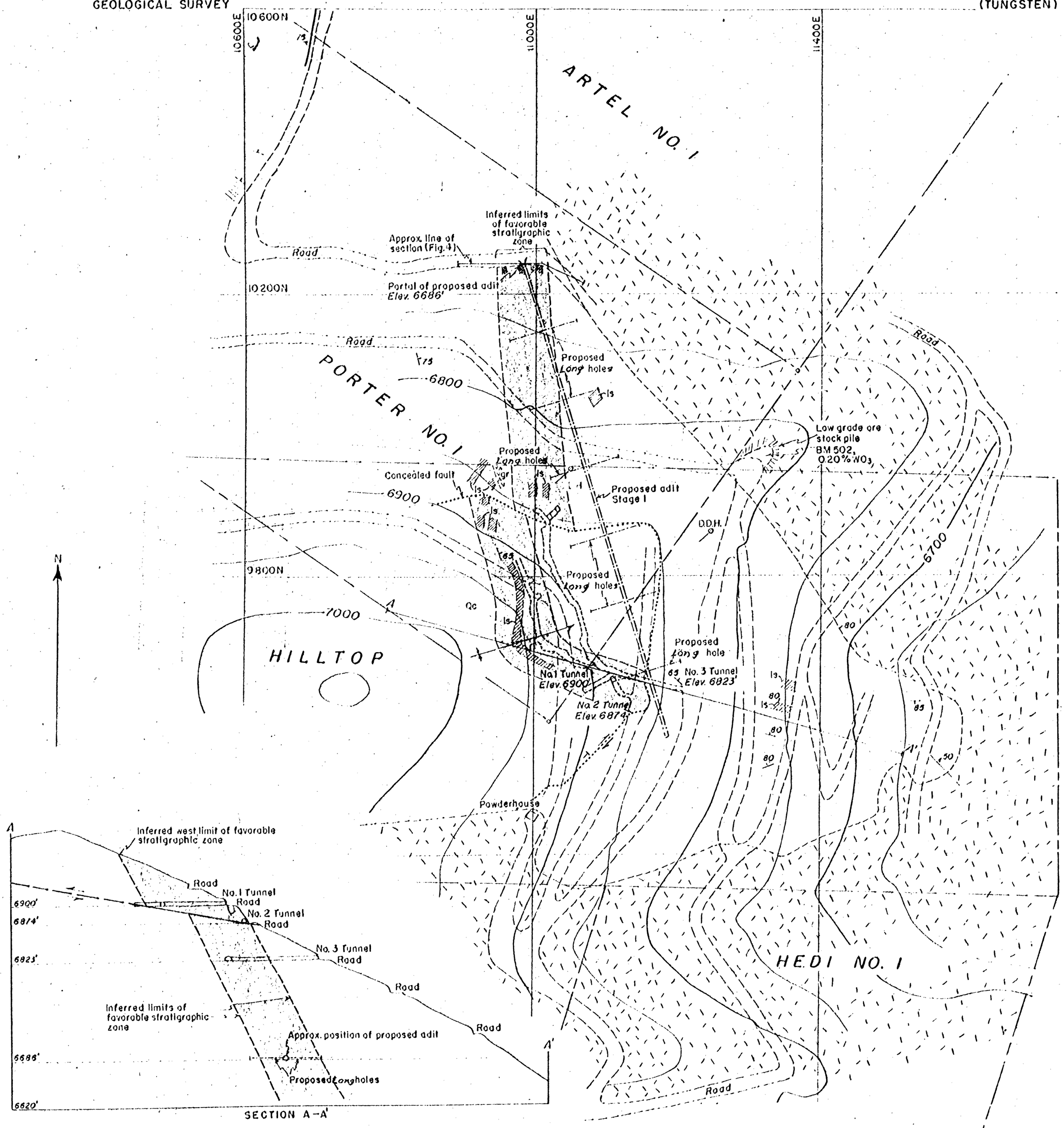


Figure 2. GEOLOGIC MAP AND SECTION OF THE HILLTOP MINE AREA
CHURCHILL COUNTY, NEVADA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DME A 4795
(TUNGSTEN)

EXPLANATION

Granite

Limestone and/or limy shale

Mudstone, with interbedded thin, discontinuous tactite lenses

Sheelite, in fractures
Sheelite, disseminated

N

Syncline

Tunnel No.1
Elev. 6900'

Tunnel No.2
Elev. 6874'
Inaccessible

9670 N

11,050 E

Note:
From Company maps, modified by R.H. Campbell August 1957

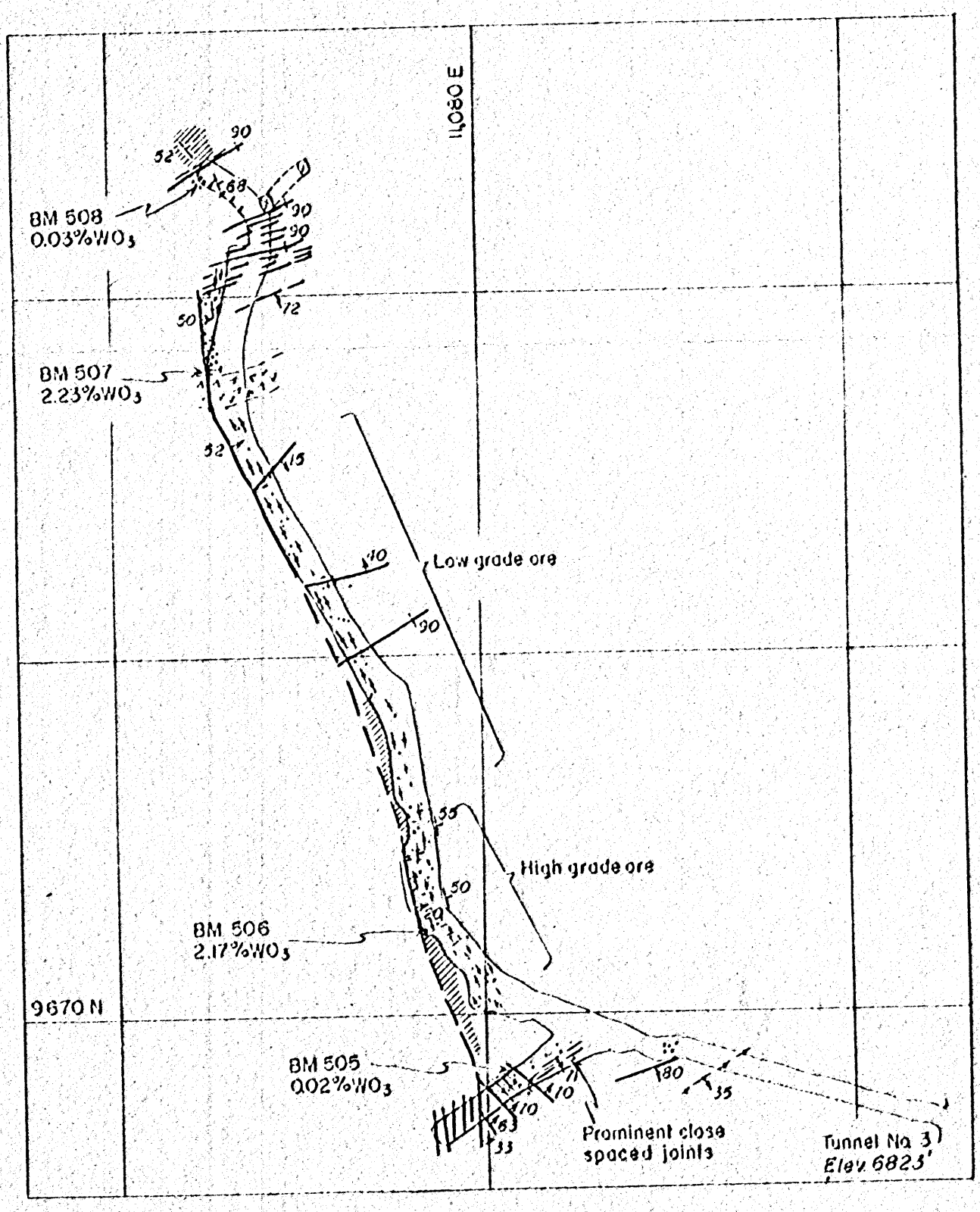
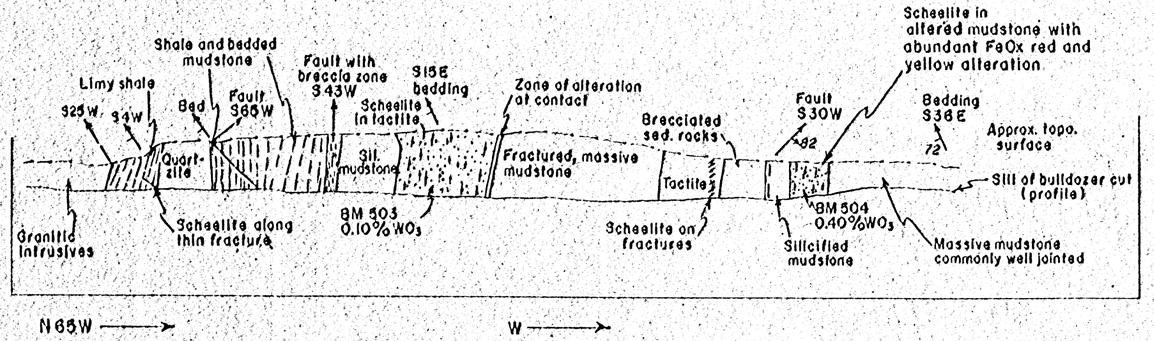


Figure 3. GEOLOGIC MAPS OF TUNNELS 1, 2, AND 3, HILLTOP MINE
CHURCHILL COUNTY, NEVADA

0 40 80 120 Feet



Geology by R. H. Campbell, August 1957

Figure 4. FACE AT BULLDOZER CUT, HILLTOP MINE
CHURCHILL COUNTY, NEVADA

0 20 40 60 Feet

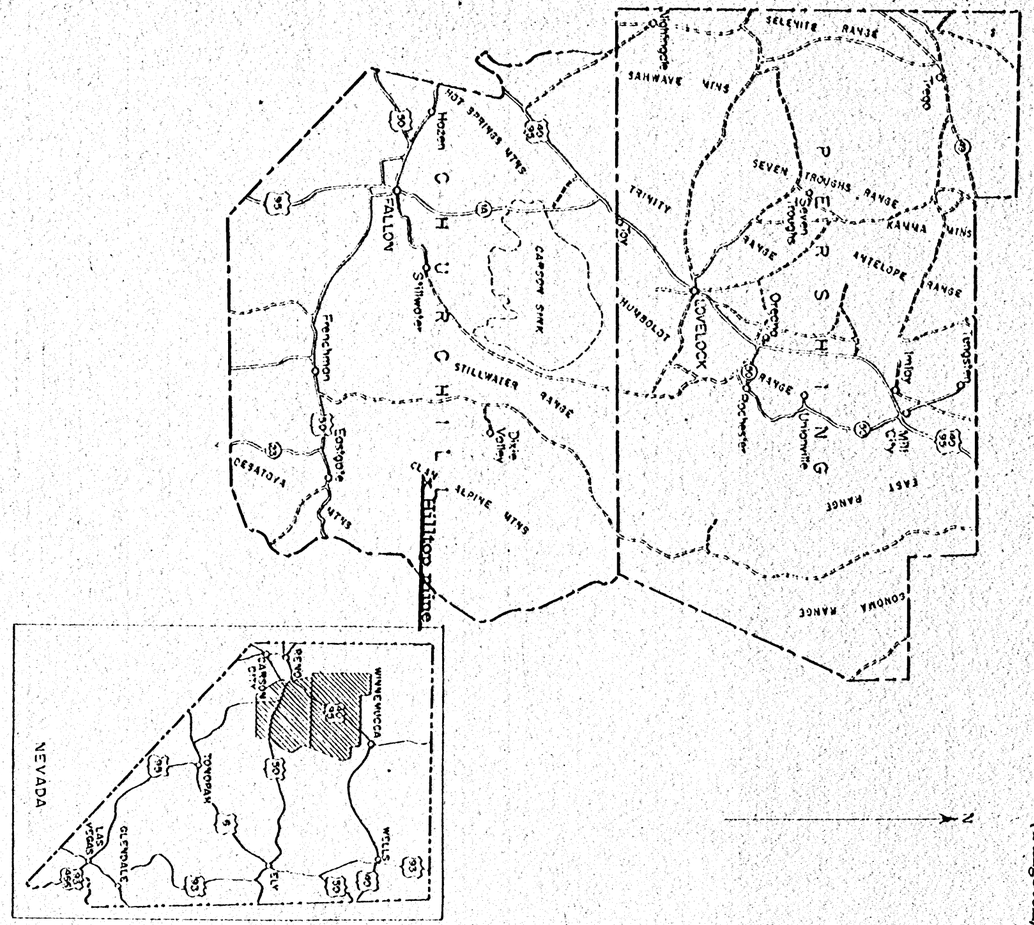
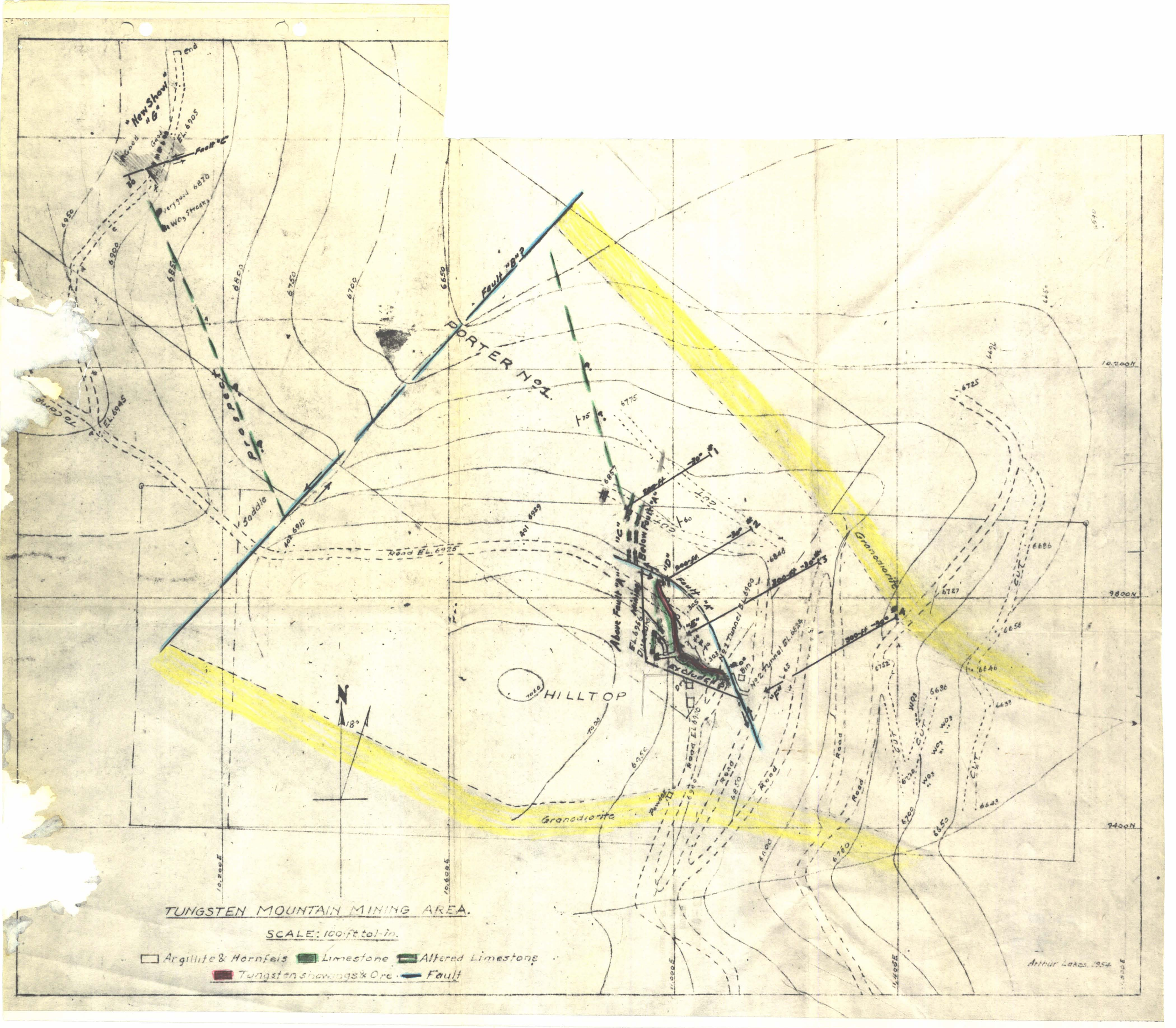


Figure 1. INDEX MAP OF CHURCHILL AND PERSHING COUNTIES, NEVADA

0 20 40 60 Miles


"New Show" "B"
End
Good
EL. 6905
Fault "C"
Very good 6870
Wo3 Streaks
6950
6900
6850
6800
6750
6700
6650
Fault "B"?
PORTER No. 1.
Prospect
To Camp
EL. 6945
Saddle
Road EL. 6925
6775
6725
6686
6727
6658
6646
6639
6643
6685
6840
Fault "A"
Above Fault "A"
Below Fault "A"
Fault "D"
Fault "E"
Fault "F"
Fault "G"
Fault "H"
Fault "I"
Fault "J"
Fault "K"
Fault "L"
Fault "M"
Fault "N"
Fault "O"
Fault "P"
Fault "Q"
Fault "R"
Fault "S"
Fault "T"
Fault "U"
Fault "V"
Fault "W"
Fault "X"
Fault "Y"
Fault "Z"
Fault "A1"
Fault "B1"
Fault "C1"
Fault "D1"
Fault "E1"
Fault "F1"
Fault "G1"
Fault "H1"
Fault "I1"
Fault "J1"
Fault "K1"
Fault "L1"
Fault "M1"
Fault "N1"
Fault "O1"
Fault "P1"
Fault "Q1"
Fault "R1"
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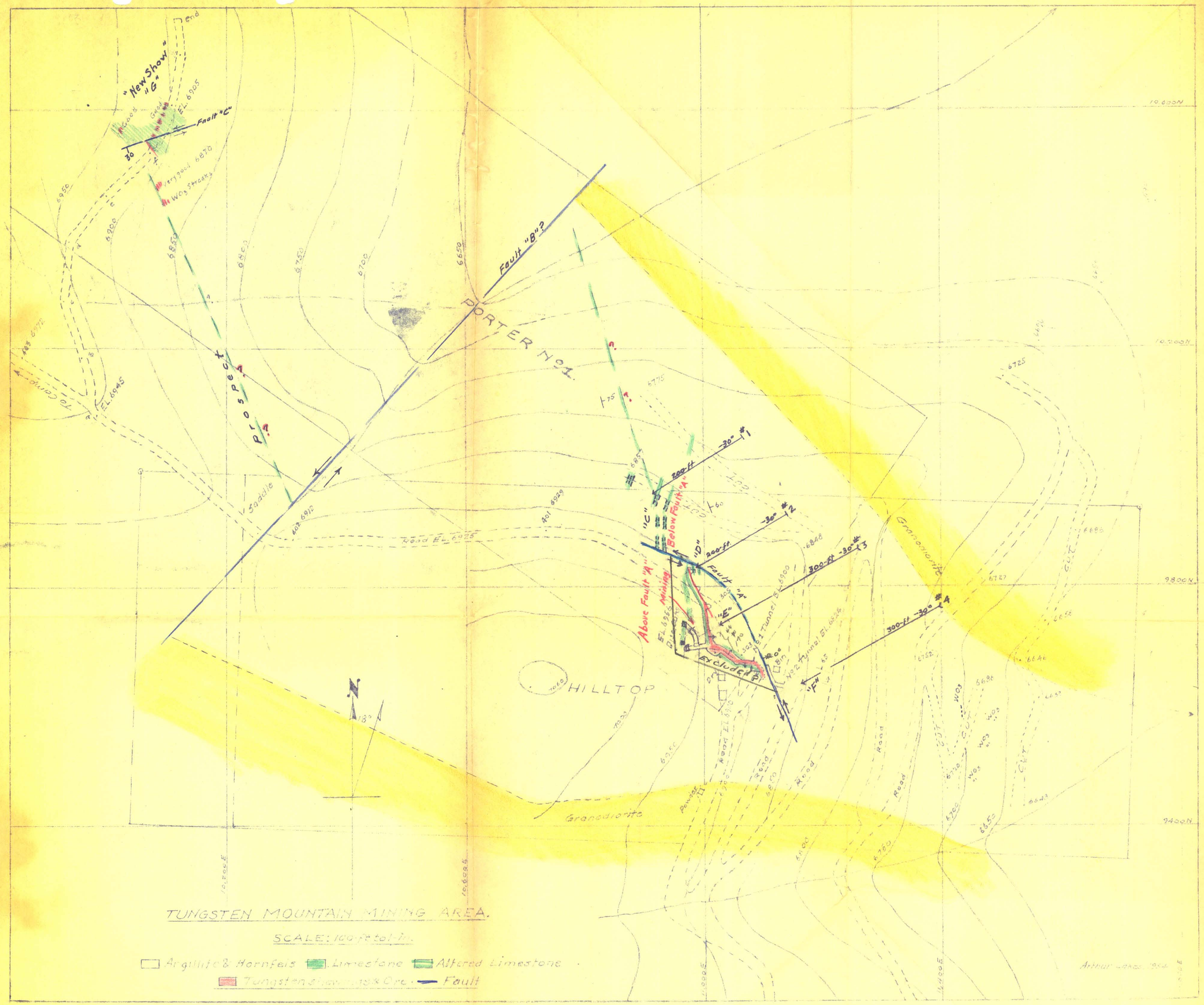
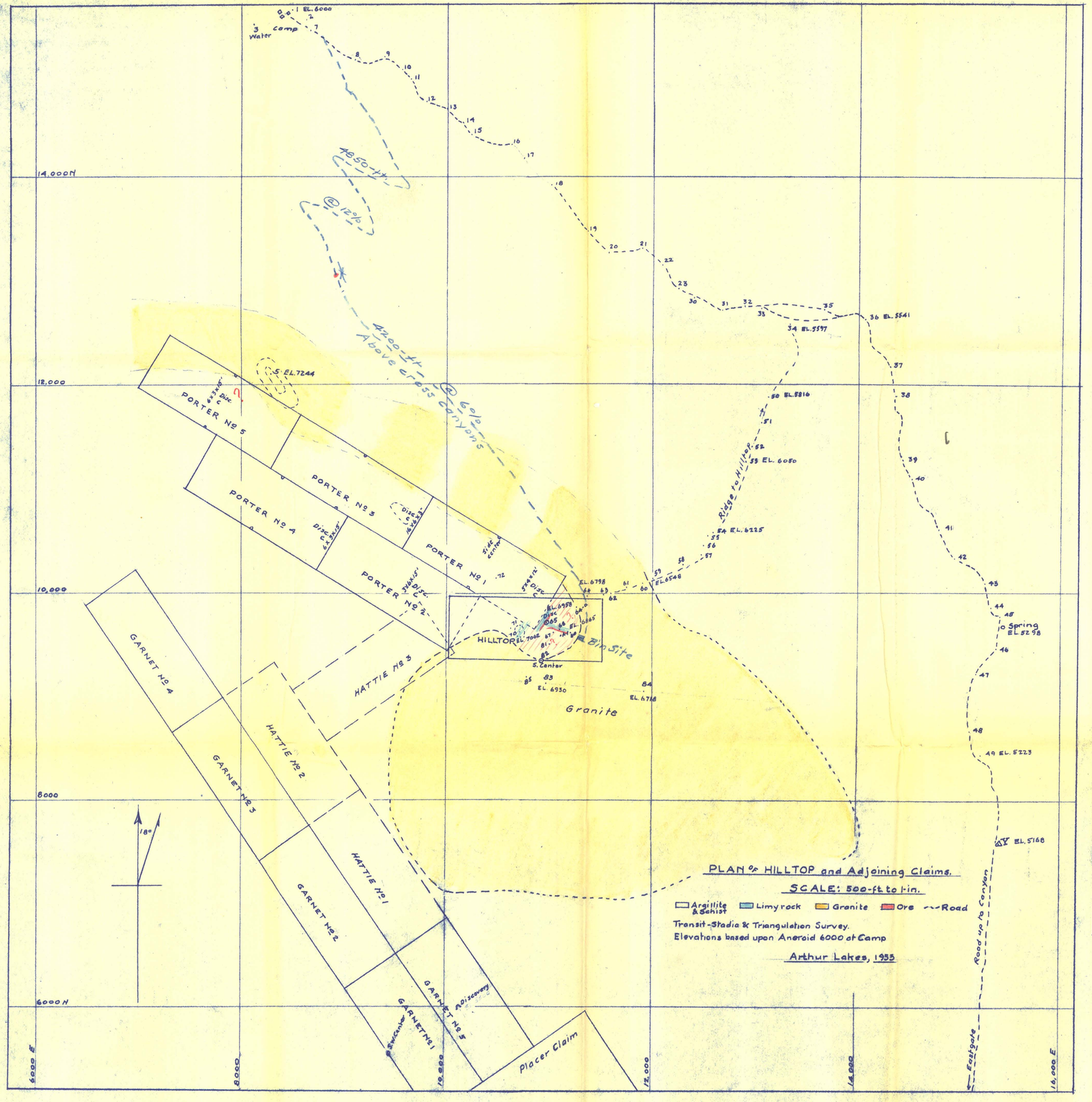


TUNGSTEN MOUNTAIN MINING AREA.

SCALE: 100 ft to 1 in.



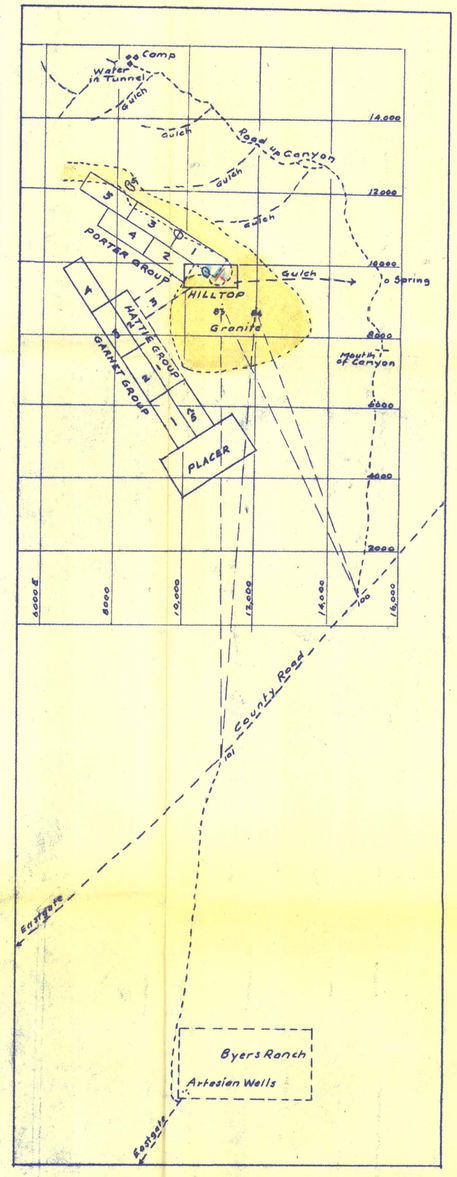
PLAN of HILLTOP and Adjoining Claims.

SCALE: 500-ft to 1-in.

Argillite & Schist | Limy rock | Granite | Ore | Road

Transit-Stadia & Triangulation Survey.
Elevations based upon Aneroid 6000 at Camp

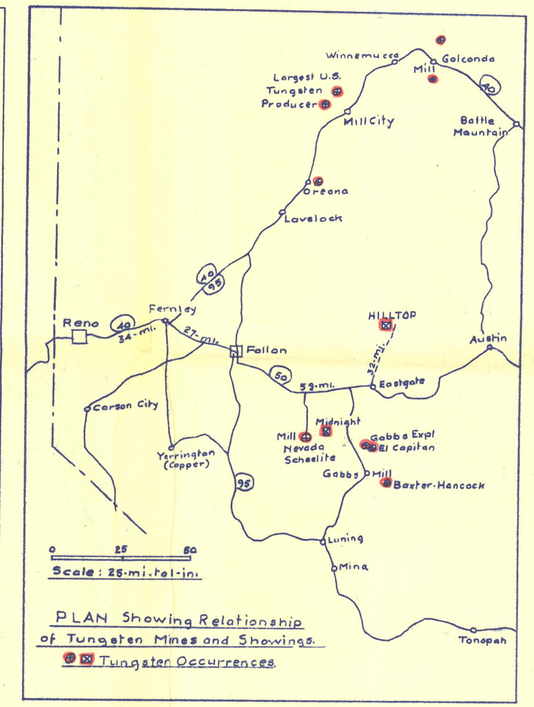
Arthur Lakes, 1955



PLAN of HILLTOP VICINITY.

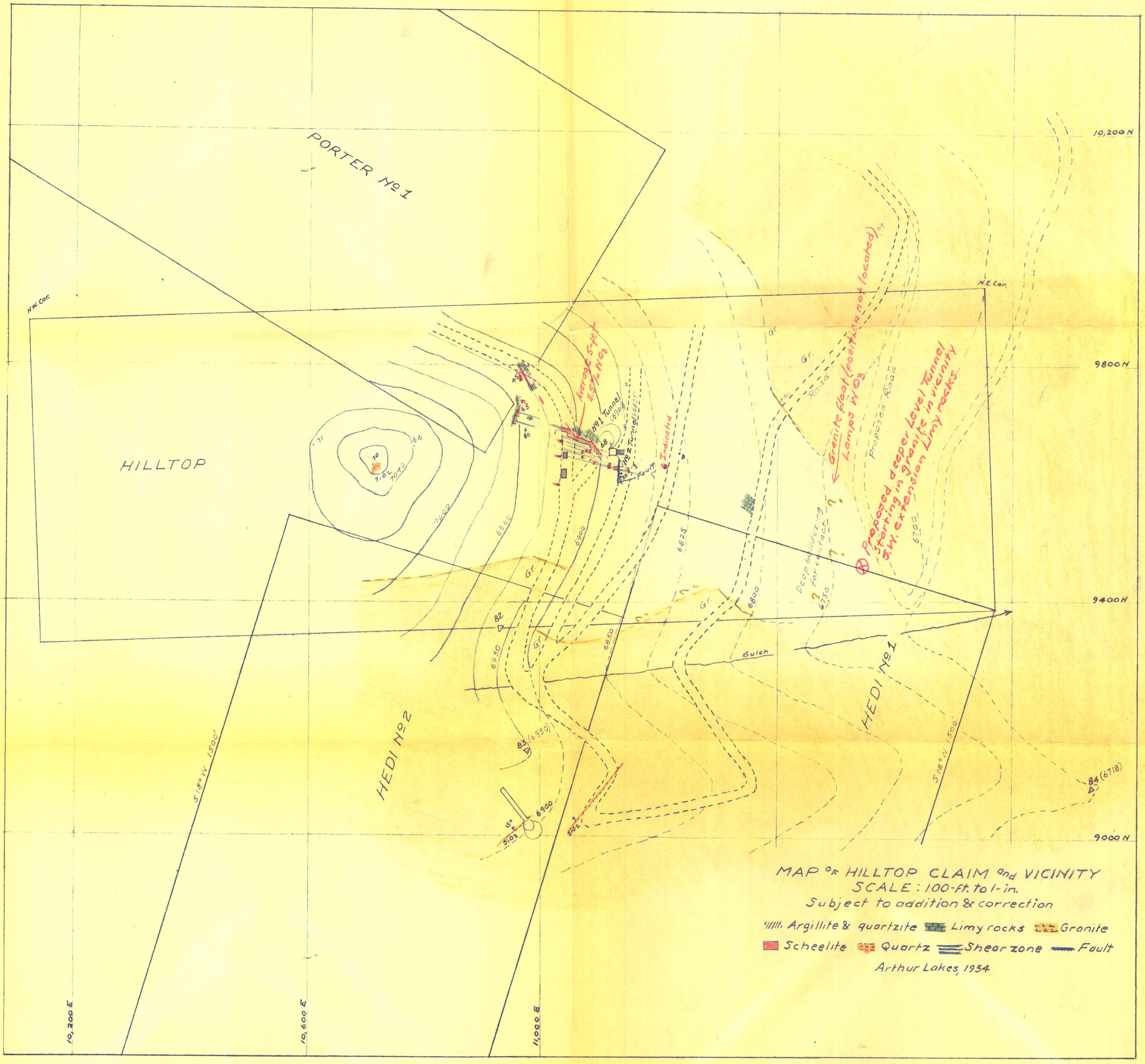
Showing Claim Locations, Roads and Water Resources.

SCALE: 2000-ft to 1-in.

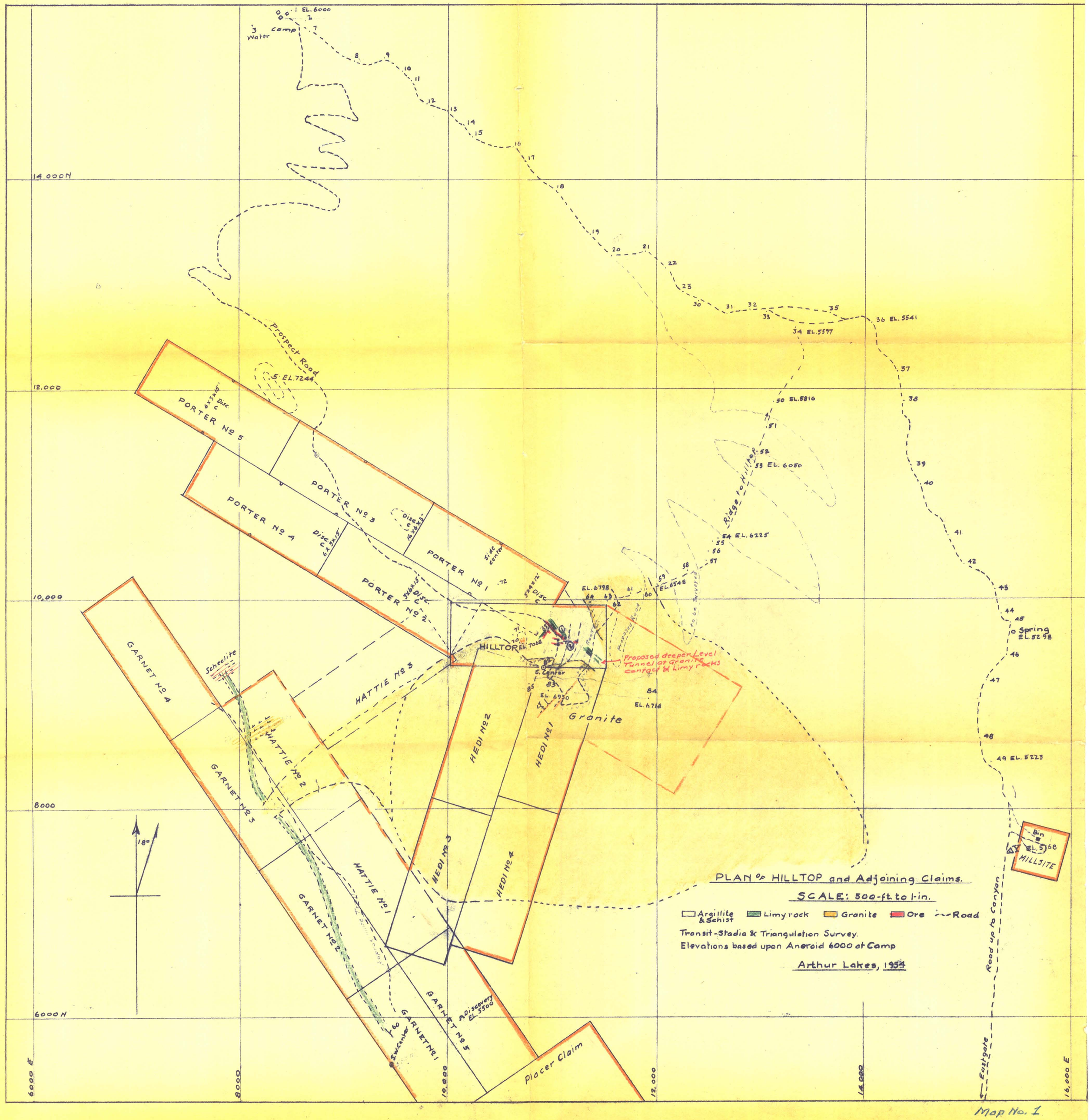


PLAN Showing Relationship of Tungsten Mines and Showings.

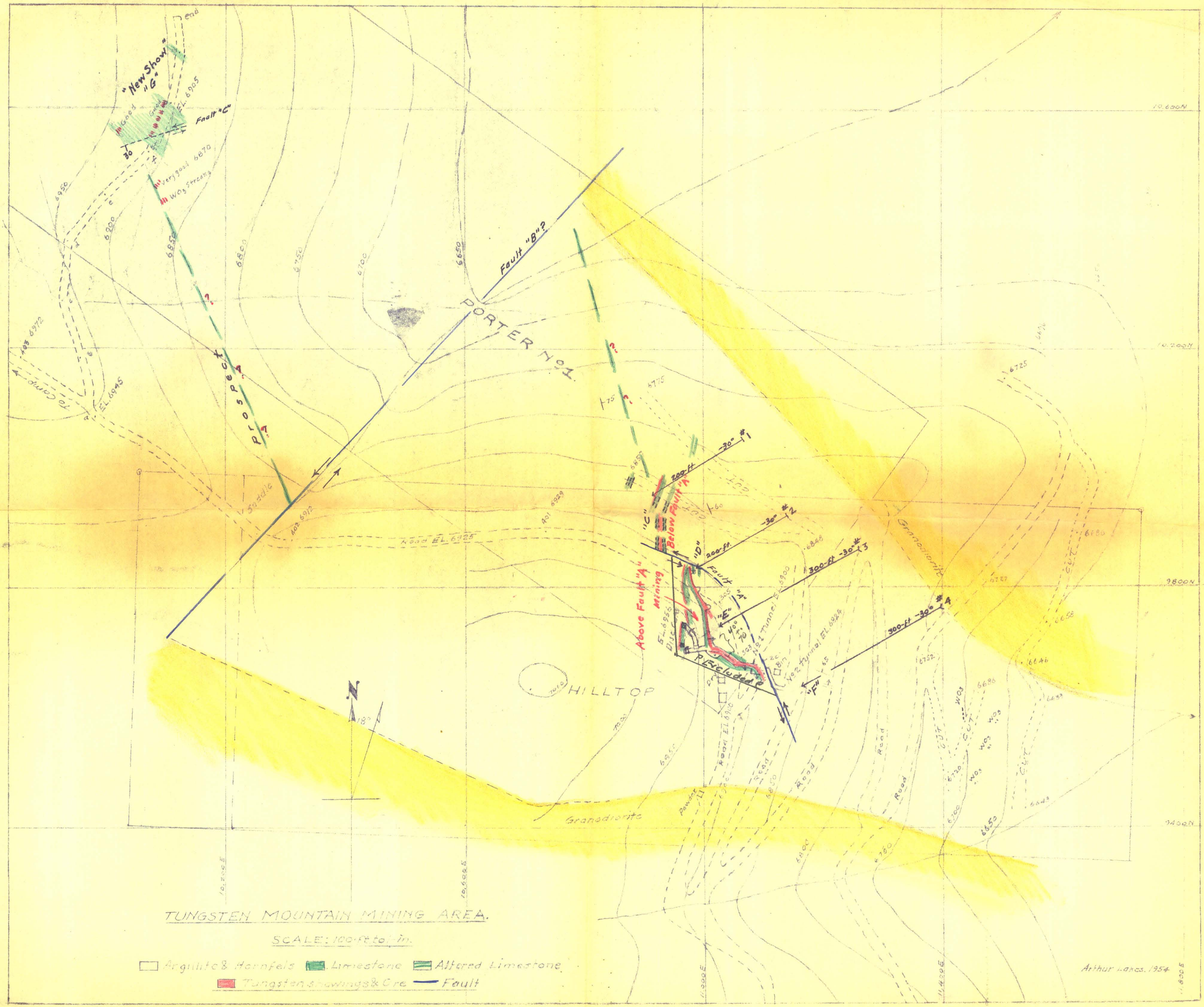
Tungsten Occurrences.


PORTER No 1
HILLTOP
HEDI No 2
HEDI No 1
N.W. Cor.
N.E. Cor.
10,200 N
9800 N
9400 N
9000 N
10,200 E
10,600 E
11,000 E
S 18° W 1500'
No 1 Tunnel (6900)
No 2 Tunnel (6955)
Average 5-ft. x 3.5% WO3
Indicated
Fault
Granite float (position not located) Lamps WO3
Proposed deeper Level Tunnel starting in granite in vicinity S.W. extension Limy rocks
Proposed Road
Deep bulldozing for contact
Gulch
Gr.
7000
6950
6900
6850
6800
6750
6700
6930
(6930)
(6718)
MAP OF HILLTOP CLAIM and VICINITY
SCALE: 100-ft. to 1-in.
Subject to addition & correction
Argillite & quartzite
Limy rocks
Granite
Scheelite
Quartz
Shear zone
Fault
Arthur Lakes, 1954

Map No 2


PLAN of HILLTOP and Adjoining Claims.
SCALE: 500-ft. to 1-in.
Argillite & Schist
Limy rock
Granite
Ore
Road
Transit-Stadia & Triangulation Survey.
Elevations based upon Aneroid 6000 at Camp
Arthur Lakes, 1954
PORTER No 5
PORTER No 4
PORTER No 3
PORTER No 2
PORTER No 1
GARNET No 4
GARNET No 3
GARNET No 2
GARNET No 1
GARNET No 5
HATTIE No 3
HATTIE No 2
HATTIE No 1
HEDI No 2
HEDI No 1
HEDI No 3
HEDI No 4
HILLTOP
Granite
Placer Claim
Prospect Road
Camp
Water
Spring
EL. 5298
MILLSITE
Bin
Ridge to Hilltop
Road up to Canyon
Eastgate
Proposed deeper Level Tunnel at Granite contact & Limy rocks
Scheelite
Discovery EL. 5500
Swenke
EL. 6000
EL. 7244
EL. 5597
EL. 5541
EL. 5816
EL. 6050
EL. 6225
EL. 6548
EL. 6798
EL. 7062
EL. 6930
EL. 6718
EL. 5223
EL. 5368
14,000 N
12,000
10,000
8000
6000 N
6000 E
8000
10,000
12,000
14,000
16,000 E
18°

Map No. 1



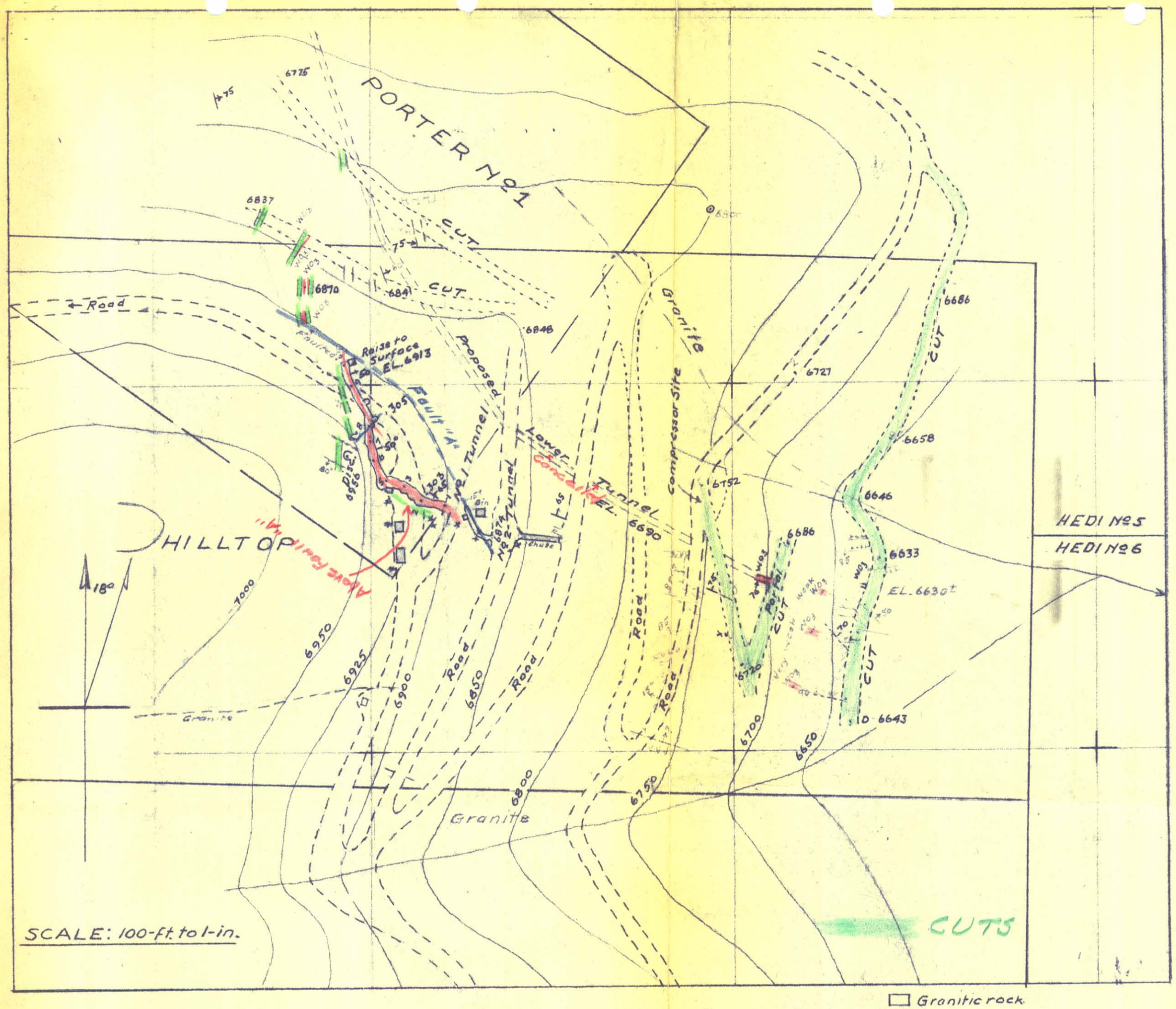
TUNGSTEN MOUNTAIN MINING AREA.

SCALE: 100-ft to 1-in.

Argillite & Hornfels — Limestone — Altered Limestone

Tungsten showings & Ore — Fault

Arthur Lakes. 1954



TUNGSTEN MOUNTAIN MINING AREA.

Showing workings, disclosures, etc. and position of deeper Tunnel.

Argillite & Hornfels — Limestone — Altered Limestone? — Tungsten showings & Ore — Fault