UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

## OFFICIAL DOCKET FILE

~~Terminated (or cancelled)~~ rescinded without certification. DMEA No. 2100

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

**Left Side**

Certificate of Audit (Final).

Interim Audit(s).

Report of Review.

✓ Termination Notice or Agreement.

✓ Recision Notice.

Assignment of Contract.

Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

✓ Subordination Agreement.

✓ Leases and assignments of leases.

✓ Application and attachments.

Schedule of Collections.

Operator's monthly reports and all attachments (latest on top).

**Right Side**

Project summary.

Work completed analysis.

✓ All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report. (Tab)

Operator's Final Report.

Interim Reports.

✓ On-site Exam Report(s). (Tab)

Settlement Sheets.

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number_____

Operator's Monthly Reports in folder number _____

dw
Reviewer's Initials

7973

GOVERNMENT COPY

NOTICE OF TERMINATION AND RESCISSION OF EXPLORATION PROJECT CONTRACT BEFORE WORK IS BEGUN

To: A. F. Eccker, M. F. Brown and Roy Munro, partners

Operator under Exploration Project
Contract Idm-E292, Docket No. DMA
2100, dated April 16, 1952

The United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereby terminates and rescinds the above-mentioned contract, on the following grounds:

(a) Failure to commence work within sixty (60) days from the date of the contract; and

(b) In the opinion of the Government, you have failed to prosecute operations pursuant to the terms of the contract, in that you have failed to perform any work at all.

Dated this 23rd day of September, 1952.

UNITED STATES OF AMERICA

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

Ecl
10/8

MF-200
(June 1951)

Docket No. DMA 2100
Commodity Tungsten

Idm-E292

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 10 1952

# EXPLORATION PROJECT CONTRACT [1]

It is agreed this 16th day of April, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] A partnership consisting of: A. F. Ecker, M. F. Brown, Roy Munro, hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Colorado, County of Boulder described as follows: [3] Steel Plate Lode Mining Claim, Survey Lot No. 19632; Big Jack Lode Mining Claim, Survey Lot No. 19559; Big Cameron Lode Mining Claim, Survey Lot No. 19559; Those portions of the Fraction Lode Mining Claim, Survey Lot No. 19972, the Jack Lode Mining Claim, Survey Lot No. 18346, and the Summit Lode Mining Claim, Survey Lot No. 18346, lying west of the road as it is now laid out across said three claims.
with respect to which the Operator represents and undertakes: [4]

(*a*) ~~That he is the owner in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] Tungsten; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] eight (8) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. 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.

5. *Fixtures and improvements.* 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. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[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.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

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

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 75 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,125.00, which is 75 percent of the agreed estimated total cost of this project, $13,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *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 worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in ~~sext~~uplicate the day and year first above written.

THE UNITED STATES OF AMERICA

A. Becker
(Operator)

By J. H. Ernst Jr.
Regional Director, Region IV
U. S. Bureau of Mines

By M. Brown
Roy Munro

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

MF-202

# LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Boulder, State of Colorado, described in a certain Exploration Project Contract dated April 16, 1952, between A. F. Eccker, M. F. Brown, Roy Munro, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Aug. 15, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this ..... day of ....., 195....

Juanita Clark

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

# LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Boulder, State of Colorado, described in a certain Exploration Project Contract dated April 16, 1952, between A. F. Eccker, M. F. Brown, Roy Munro, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated January 30, 1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this ..... day of ....., 195....

Hetzer Oil Co.
By Dudley D. Shutzsander
Secretary

U. S. GOVERNMENT PRINTING OFFICE 16-64582-1

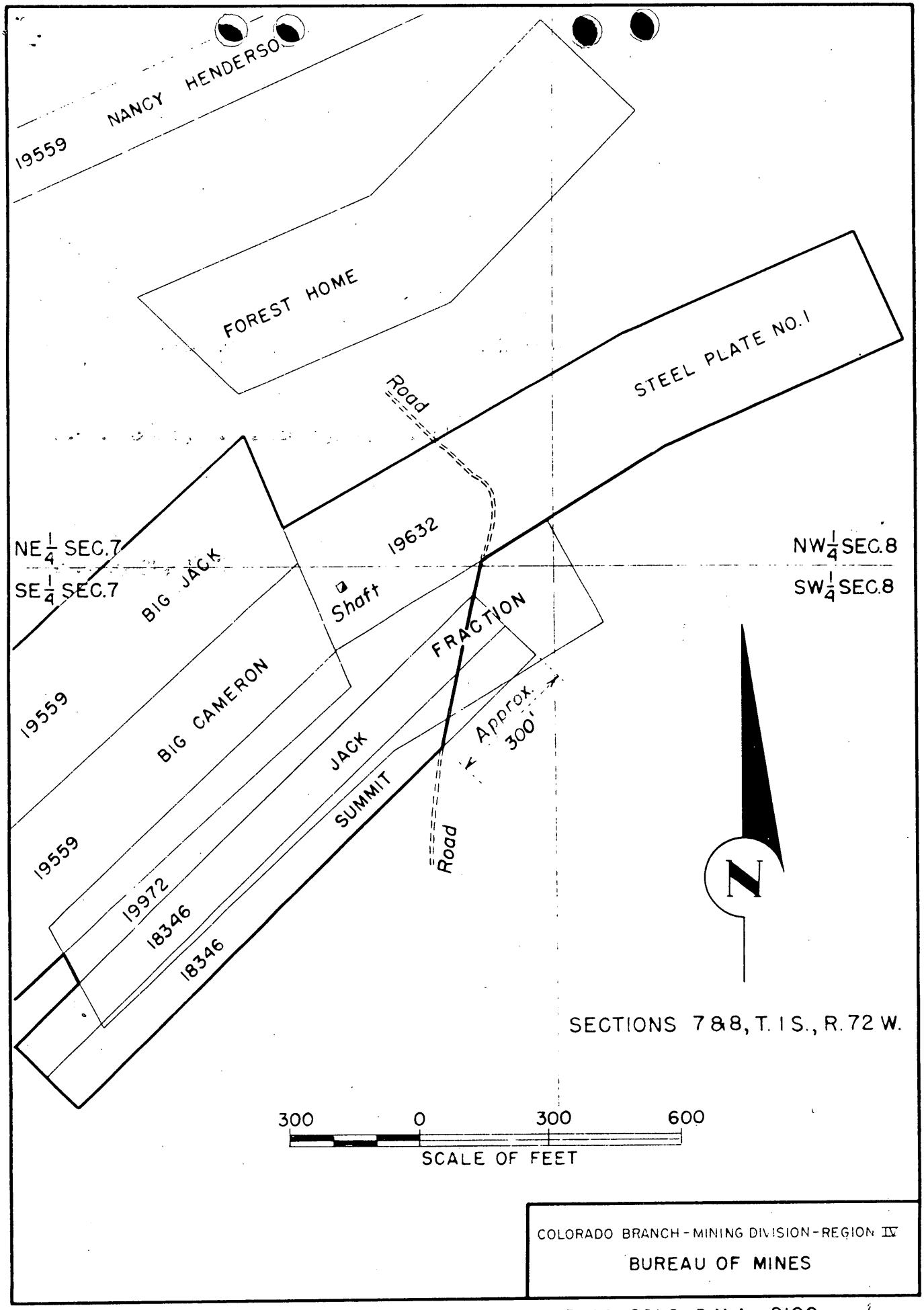
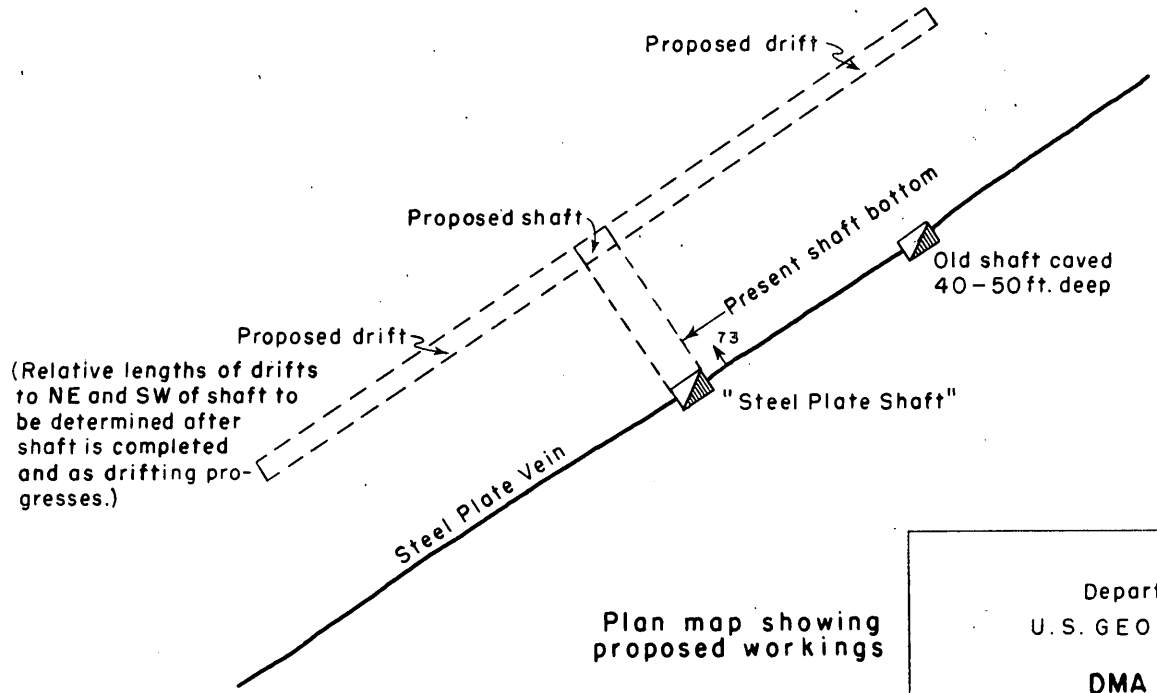



FIG. 2 - CLAIM MAP, STEEL PLATE MINE, BOULDER CO., COLO., D.M.A.-2100




Plan map showing proposed workings

Department of Interior
U.S. GEOLOGICAL SURVEY

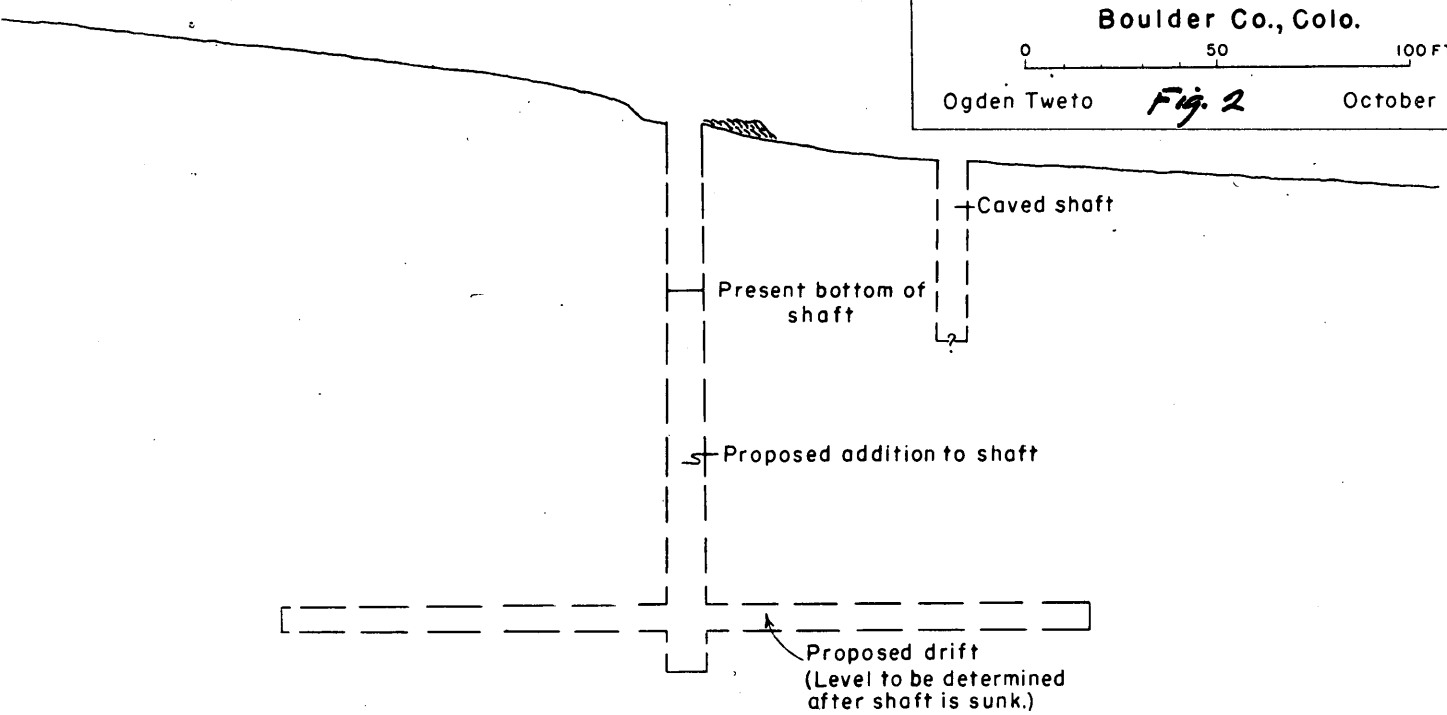
DMA Docket 2100

Plan and Section showing proposed workings

STEEL PLATE MINE
Boulder Co., Colo.

0 50 100 FT.

Ogden Tweto Fig. 2 October 1951




Vertical projection showing proposed workings

EXHIBIT A

## Exploration Project

The proposed project consists of constructing a hoist house and headframe at the Steel Plate shaft, sinking the shaft 100 feet, drifting 100 feet northeast and 100 feet southwest on the vein from the bottom of the shaft.

The location of the shaft is shown on Fig. 1. The proposed work is shown on Fig. 2.

The estimated working time is 6 months.

The following costs are estimated:

| | |
|---|---|
| Fixtures and improvements | $ 700.00 |
| Rental of equipment | 120.00 |
| Purchase of equipment | 300.00 |
| Depreciation of equipment | 366.00 |
| Labor and Supervision | 7,883.00 |
| Supplies | 4,131.00 |
| Total | $13,500.00 |

### Fixtures and Improvements

| | |
|---|---|
| Hoist house | $250.00 |
| Head frame | 450.00 |

### Operating Equipment

To be rented:

| | |
|---|---|
| 1 Bulldozer, 10 hours @ $12.00 per hour | $120.00 |

To be purchased:

| | |
|---|---|
| 1 Drill column, arm and clamp | $100.00 |
| 1 Jackhammer carriage shell | 100.00 |
| 2 Bucket dollies | 100.00 |
| Total - | $300.00 |

Operating Equipment (continued)

To be furnished by operator:

| | Allowable monthly Depreciation when in use |
|---|---|
| 1 100 c.f.m. air compressor | $ 25.00 |
| 1 gasoline engine driven hoist | 25.00 |
| 1 jackhammer | 3.00 |
| 3 ore buckets | 1.50 |
| 1 air receiver | 4.00 |
| 1 water bailer and blacksmith forge | 2.50 |

Estimated total depreciation - $366.00

## Labor and Supervision

### Maximum allowable rate

| | |
|---|---|
| 1 Hoistman | $12.00 per day |
| 2 Miners | $12.00 per day |
| 1 Foreman | $16.00 per day |

Total estimated labor and supervision - $7,083.00
Estimated Compensation, insurance and payroll taxes - 800.00

## Supplies

| | |
|---|---|
| Timber | $1,110.00 |
| Explosives | 1,010.00 |
| Gasoline, oil, grease | 815.00 |
| Drill steel and bits | 445.00 |
| 2-inch pipe | 168.00 |
| 12-pound track | 150.00 |
| Lumber, nails | 280.00 |
| Miscellaneous small tools | 153.00 |
| Total - | $4,131.00 |

## Rehabilitation and Repairs

None

# MINING LEASE

THIS INDENTURE, Made this 15th day of August in the year of our Lord one thousand nine hundred and fifty-one between JUANITA CLARK, hereinafter termed LESSOR, party of the first part, and M. F. BROWN, A. F. ECCKER, and ROY MUNRO, hereinafter termed LESSEE, party of the second part.

WITNESSETH, That the said Lessor for and in consideration of the royalties hereinafter reserved, and the covenants and agreements hereinafter expressed, and by the said Lessees to be kept and performed, has granted, demised and let, and by these presents does grant, demise and let unto the said Lessees all the following described mine and mining property situate in Grand Island Mining District, County of Boulder, State of Colorado, to-wit:

Steel Plate No. 1 Lode Mining Claim, Survey Lot No. 19632.

(The rights and premises hereby granted are limited to within the vertical planes of the surface boundary lines of the above described premises, and all extra lateral rights, if any, are reserved to the Lessor, and the Lessees shall have no right to extend his or their workings beyond such vertical planes).

TO HAVE AND TO HOLD THE SAME, for the purpose of mining and for no other purpose, for the term of 3 years from date hereof, expiring at noon on the 15th day of August 19 54, unless sooner forfeited or determined through the violation of any covenant or agreement hereinafter against the said Lessees reserved.

FIRST: In consideration of said lease, the Lessees do hereby covenant and agree with the Lessor as follows:

2nd: To work and mine said premises as aforesaid, steadily on within 10 days from the date hereof, and to work the same mine-fashion, in manner necessary and appropriate to good and economical mining so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the same as a workable mine.

All work to be subject at all times to the approval of the General Manager, Superintendent, or other duly authoried agent of the said Lessor.

nd: To work and mine said premises as aforesaid, steadily and continuously during the period of this lease, performing not less than 40 shifts of work within said lease premises, within each and every calendar month during the term of this lease. Any excess above the required number of shifts that may be performed by the said Lessees in any one month shall not apply on the succeeding or any following month, and a failure on the part of the said Lessees to work the said premises with the said number of shifts each calendar month, or a failure to work the said premises at all for ten (10) consecutive days, may be considered by the Lessor a violation of this lease, and shall, at the option of the Lessor and without demand or notice, constitute an immediate forfeiture of this lease. The word "shift" as herein used, means the labor of one man for one day of at least (8) hours.

3rd: To well and sufficiently timber said mine at all points where proper, in accordance with good mining; and to repair all old timbering wherever it may become necessary.

4th: To allow said Lessor and its agents upon and into all parts of said Mine for the purpose of inspection with use of all passages, ropes, windlass, ladderways, and all other means of ingress or egress for such purpose.

5th: To not assign this lease or any interest thereunder, and not sublet the said premises or any part thereof, without the written assent of said Lessor, and not allow any person not in privity with the parties hereto, to take or hold possession of said premises, or any part thereof, under any pretense whatever.

6th: To keep at all times the drifts, shafts, tunnels and other workings in said premises thoroughly drained and clear of loose rock and rubbish and in an absolutely safe and secure condition unless prevented by extraordinary mining casualty; to maintain at all times and leave the floor of all drifts and workings in good even and unobstructed condition; and to stow no waste underground except with the consent in writing, and under the direction of the agents of the Lessor.

7 : To do no underhand stoping, whether for the purpose of extracting or taking out ore or for any other purpose whatever, and to make and keep all shafts and winzes not less than seven feet long by three feet and one-half feet wide in the clear and all drifts and tunnels not less than six and one-half feet high by three and one-half feet wide in the clear, and to make the grade of all drifts and tunnels not to exceed four inches per one hundred feet.

8th: To cause or permit no building or structure of any kind to be erected or to remain upon the said premises except such as are necessary for the actual working of the mine or for the storing, hoisting, sorting or shipping of ores extracted therefrom, except insofar as authorized in writing by the Lessor; and to keep all machinery and buildings, of whatsoever kind, now upon or which shall hereafter during the term of this lease be placed upon said premises and belonging to the Lessor, in their present condition; and at all times, at Lessees' sole expense to repair and keep the same in condition in order that at the expiration or termination of this lease, by forfeiture or otherwise, the said machinery and buildings may be surrendered and delivered up to the Lessor in the same conditions as they now are received by the Lessees, ordinary wear and tear alone excepted.

9th: To do no act which will damage or injure the shafts or other workings now constructed in the said leased premises.

10th: To allow the Lessor, its agents and representatives or any of them at all times:

(a) to Enter and visit all parts of said premises and the workings thereof, for the purpose of inspecting and the taking of assay samples of ore or rock, either standing or broken down.

(b) To take average samples from any ores awaiting shipment.

(c) To have surveys made by the Lessor's surveyor or surveyors of the workings whether under or above ground or both.

11th: To keep all shafts or other ascents or descents in the workings, whether within or without the leased premises, fully equipped at all times with substantial ladders throughout their entire depth, and to maintain such other facilities, that all parts of the leased premises including the approaches thereto, shall be easily and safely accessible for the purpose of inspection, sampling and surveying, and generally to facilitate in every way, the making of the same by the Lessor, its agents or representatives, or any of them.

12th: To furnish to the Lessor or to its duly authorized agents or representatives, or any of them full, true and accurate information in response to any request or inquiry with regard to the condition of such workings, or any part thereof, or the quality or character of the mineral therein.

13th: To keep the said premises and every part thereof at all times free and clear of any and all mechanic's or miner's liens, or other liens or encumbrances, and to settle and discharge on or before the -5th day of each calendar month all indebtedness and liabilities incurred by the Lessees, or any person or persons under or in privity with them upon said premises, prior to the expiration of the preceding calendar month for work done, services rendered or materials furnished in respect to the said leased premises; and if any lien be filed, or if any part of the pay roll, or other mine indebtedness remain unpaid or exists as aforesaid, after the 15th day of each calendar month the Lessor may, at its election declare a forfeiture of this lease as hereinafter provided; and from time to time keep posted at some conspicuous point on said leased premises and in the workings through which the same may be operated, such written notices as the Lessor shall furnish to them for that purpose, to the effect that the Lessor, or said leased premises, or the interest of the Lessor therein, shall not be liable either by way of lien or otherwise, for any work done or materials furnished with respect thereof, or such other notice designed to protect the Lessor or its interest in said property from liens, as the Lessor may prescribe.

14th: To assume all responsibility in case of accident to any of the agents, employees or representatives of the Lessees in or upon the property of the Lessor, or to anyone in and upon th premises hereby leased.

15th: Said Lessees agree to forthwith take out and maintain reasonable and adequate compensation insurance and indemnity in a responsible company for the protection of its employees thereon, and in compliance with the statutes of the State of Colorado in such case made and provided. said insurance shall also cover the Lessees.

16th: At all times to keep, handle, ship or treat any and all ores and minerals extracted from the leased premises separate and apart from any other ores, minerals or materials of any character which the Lessees my mine or extract from any other workings and which may not be a part of the said estate.

17th: There is expressly reserved to the Lessor, and at the option of the Lessor to any other of the Lessees, or prospective Lessees of the Lessor, a right of way through the premises hereby leased, which right of way shall grant to the Lessor or to any of its Lessees, the right and privilege to transport ore, waste, tools, timbers and any and all materials necessary for mining and developing of any nature whatsoever, to and from any and all portions of the property of said Lessor with which the said leased premises may connect, either by openings now constructed, or that may hereafter be constructed by the Lessees or the Lessor, and the Lessor reserves the right at any and all times, for the benefit of itself, its Lessees or prospective Lessees, to run drifts or tunnels, and make raises or sink winzes through any and all portion of the said leased premises, and to use the same for the above purposes.

18th: If at any time during the life of this lease any person not a party hereto should assert that ore which the Lessees are mining and extracting hereunder is not a part and parcel of such leased premises but belong to the person so asserting said claim, then and in that event, if so directed in writing by the Lessor, the Lessees will discontinue the mining and extraction of such ore so involved until directed in writing by the Lessor to resume such operations or unless the ownership of such ores may be other wise finally adjudicated to be a part and parcel of the leased estate. If in the event of any pending or prospective litigation the Lessor should during the term of this lease desire to do mining or conduct any mining operation within the leased premises for the purpose of developing or determining the location, top, apex, strike or dip of any vein or veins within the leased premises for the purpose of procuring evidence for use in any such litigation, then and in that event the Lessees agree to furnish to Lessor every reasonable facility for the doing of such work and carrying on said development within the leased premises at the sole expense of the Lessor, save and except that the Lessees agree that in such event they will at their sole expense hoist from the underground workings to the surface all ore or waste rock which may be mined, broken down or extracted in the prosecution of such work by the Lessor; provided that all marketable ore which may be broken by said Lessor in such work shall be treated as ore to which the Lessees are entitled, as fully as though the same had been mined and extracted by them hereunder.

19th: To ship all ore with reasonable diligence after mining with the right reserved to the Lessor to take and remove all ores not so shipped with reasonable diligence and to apply the proceeds thereof under the terms of this lease.

[illegible]

20th: To occupy and hold any and all side veins, spurs, feeders, cross lodes, parallel lodes or mineral deposits of any kind which may be discovered in any manner by working within or upon the above described premises.

21st: To pay all loss or expense resulting from shipment or treatment of ore which may not be payable or saleable grade.

22nd: To comply with all the requirements of the laws of the State of Colorado.

SECOND: It is expressly understood and agreed by and between the parties as follows, to-wit:

1st: That the Lessor reserves the property and right of property in and to all ores extracted from said premises, and all ores which are of too low grade for profitable shipment or treatment shall be kept upon the surface of the leased premises separate and apart from any ore or material arising from any source other than the leased premises, and subject to the control of the Lessor.

2nd: All ore extracted from said premises shall be shipped in the name of Lessor and Lessee and settlements made direct to the Lessors [illegible] for her royalty by the ore buyer.

Said Lessor shall have and receive and said Lessee shall pay 15 % royalty on the net return of all ores shipped from said property. The words "net returns" as herein contained are taken and accepted to mean the net cash returns from mill, sampler, or smelter from which the actual cost of transportation and charge for treatment are deducted from the gross value of the ore.

3rd: No timber or trees shall be cut upon said premises or upon any part of the adjoining premises belonging to said Lessor unless permission designatiing the place at which they may be cut is previously given by said Lessor, its manager or agent, and not timber or trees shall be cut or used except for underground mining use.

4th: The Lessees do hereby covenant and agree that in case they shall fail to keep, fulfill or perform any agreement or covenant, expressed or implied, by them to be performed hereunder no matter what the same may be, then and in that event the term of this lease, shall at the option of the Lessor, expire and it shall be lawful for the Lessor, its agent or attorney, to declare this lease void and of no effect thereafter, and with or without process of law to enter upon and take possession of said premises and dispossess all person occupying the same; (provided that the failure to exercise the right of forfeiture in this paragraph contained shall never be construed to be a waiver thereof); and in such case, and also at the expiration of this lease by limitation the Lessees agree to surrender, yield up and deliver to the Lessor, its successors or assigns, the quiet and peaceable possession and enjoyment of said premises and all buildings, machinery or other improvements thereon (except machinery and hoisting apparatus placed thereon by the Lessees, which it shall be possible to remove without injury to the premises) and all dumps, ores and other mineral detached or broken from said premises, but still remaining therein, with all drifts, shafts, tunnels and other workings thoroughly clear of loose rock and rubbish, and drained, and the mine ready for immediate continued working (accidents not rising from negligence alone excusing) without demand or further notice; and should the Lessees fail so to do, they may forthwith be evicted from said premises, forcibly or otherwise, with or without process of law.

5th: Upon the termination of this lease upon any of the conditions herein provided for, the said Lessor shall have the option of purchasing all buildings erected upon said premises, together with all engines, machinery, hoisting apparatus and other appliances belonging to said Lessees, and placed thereon and used in connection with said premises at a value to be fixed by three disinterested persons, to be selected in the manner usual in cases of arbitration.

6th: This agreement shall be binding upon and enforcible by and against the respective successors, heirs, executors administrators or assigns of the parties hereto.

IN WITNESS WHEREOF the Lessor has caused this instrument to be executed by its manager, and the Lessees have hereunto set their hands and seals the day and year first above written.

Juanita Clark
Lessor.

M. A. Bruno (Seal)

(Seal)

W. Roy Bruno (Seal)

(Seal)

Lessees.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA A-2100

Date received 9-24-51

Participation

M. F. Brown, 7428 Grandview, Arvada, Colo.
A. F. Ecker, Black Hawk, Colo.
Roy Munro, Arvada, Colo.
Partnership.,

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 24 10 26 AM '51

Name and address of applicant

Date Sept 17 1951

FILL IN THIS BLOCK

Date of application Sept 17 1951.

Estimated cost 25,000.00

Mineral or metal Tungsten,

Percentage of Government participation 75%

Location of mine Grand Island Mining Dist.,
Boulder County, Nederland, Colo.

Date of filing MF-100

DMA Docket Number, if available 2100

## INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

## THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership.
*2. If a partnership, state names and addresses of partners. See above
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Not applicacable.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See attached sheets.
*5. Are you the owner or the lessee of the property? Lessee.,
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. Not owner.,
7. If lessee, attach a copy of the lease and state if it is in good standing. Attached-Good standing.,

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not available
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $6,250.00

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

## THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. Steel Plate, Lode Mine Survey Lot No.19632
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Same

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

*11. State the present and former names of the property, if any. Steel Plate

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. Attached Appendix B

*13. State source and quantity of water available for operations and its sufficiency at all seasons. See appendix B
State amount of power to be used, rate per hour or other cost, and source. See Appendix B

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See Appendix B

15. State in detail how the ore could be shipped and how and where milled. See Appendix B

*16. History: See Appendix B a b & c
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production: See appendix B
    (*a*) If mine is in production, furnish the following information:

| | *Tons per day* | *Grade or analysis* | *Cost per ton* | *Net value per ton* |
|---|---|---|---|---|
| (1) Mining | | | | |
| (2) Milling | | | | |
| (3) Shipped or sold | | | | |

*18. Ore or mineral reserves: (If property is or has been operating.) See Appendix B (a)b)c)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Tungsten

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Appendix C

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See Appendix C

## THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. See Appendix D
    (*b*) Supervisors, by numbers and positions, with salaries of each. (a) to (h)
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above. None

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. See Appendix D

## CERTIFICATION

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

M F Brown, A F Eccket, Roy Munro., By M F Brown
(Name of company) Partnership — (Signature of authorized official)

Sept 17 1951 — Secy
(Date) — (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Appendix A, Form MF-103, Que *#.4

Business and Mining Experience of applicant.,

M. F. Brown., 32 years as Agent with C&S Ry., 20 years at Black Hawk, Colo., periods between times., Leasing and operating # Button Mine, Silver"...Partnership with A F Ecker on Carnocopia Mine, Silver Creek, Gold., also Paragold Mine-, Bookkeeper and Paymaster for Manion Placer Mines for three years. Years 1936-37 and 38.

A. F. Ecker., Manager & Supervisor.
Twenty seven years Mining in Gilpin and Boulder Counties., Tungsten experience as 1917 and 1918 Conger and Bettick., also Vasco and Cross Mines at Tungsten, Colo. 1941 and 1942 with Tom Walsh in Sunday and Cowdry Mines at Nederland...., Personel reference Mr. Elmer Hetzer, Mgr. Wolf Tongue Co, Boulder, Colo.

Roy Munro,,
Excavating Business with power shovel., worked some in Fleurspar Mine., Reference Rigg & Sons Contractors, Arvada, Colo.

Appendix B, Form MF-103, Que12.

Property located about 2 miles NE Nederland on good dirt road., Shipping point is The Wolf Tongue Mill in Nederland, Colo.

Que 13.,

No water necessary for the sinking and drifting in proposed operation.

Will use gasoline hoist and compressor, cost over two year period, approximately $ 800.00.

Que. 14.

No structure or building on property as yet;, shaft now down about 43 feet properly cribbed and timbered.

Que. 15.

Ore can be shipped and milled at Wolf Tongue Mill at Nederland, Colo.

Que.16., History.

(a)., Shaft sunk approximately sixty to eighty feet and possibly some drifts between 1915 and 1917., discontinued account No market for Tungsten at close of first world war---hearsay according to Mr Hetzer about $6,000.00 recovered.

(b)., Jack and Summit Mines adjoining directly to south had production of 300 ton crude running 12.11 % WO3.,Nigger Vaughn adjoining on north had a production of approximately $4,000.00 to $5,000.00., Cold Springs Mine now being revamped is about a quarted mile directly east. Forest Home Mine is three hundred yards to North, now working on cross-cut.

(c).,No private reports of past production available.,Mr. Elmer Hetzer of Wolf Tongue looked it over, saying it has ever indication of making a mine, recommending we sink shaft 100 to 150 feet., also suggested this Govt.,loan.

Que.17. Production.,

In sinking shaft to present level (43 feet) we produced and shipped 762 pounds assay of 11.70 and today are shipping approximately two ton mill-dirt.

Que 18 Mineral Reserves;-

(a)., Tungsten Ore.,Has not been sufficiently developed to determine mineral deposits., property is virgin, has not been worked at lower levels.

(b).,Map and an assay enclosed herewith.

(c)., Estimate 300 to 550 ton high-grade and possibly 2000 ton mill dirt.

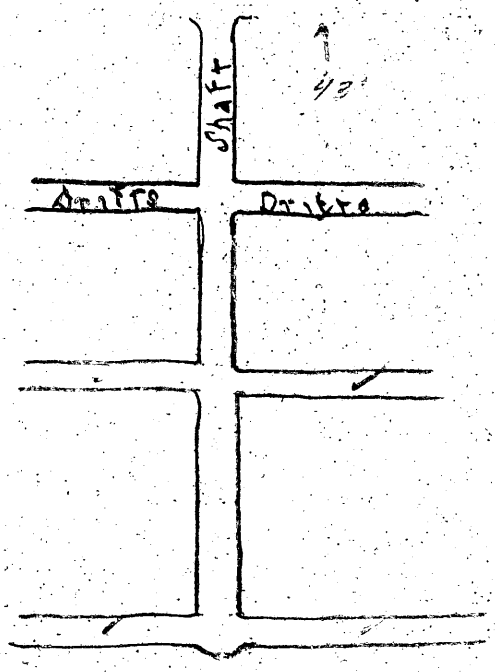
Appendix C, Form 103. "Exploration"

Que.21,

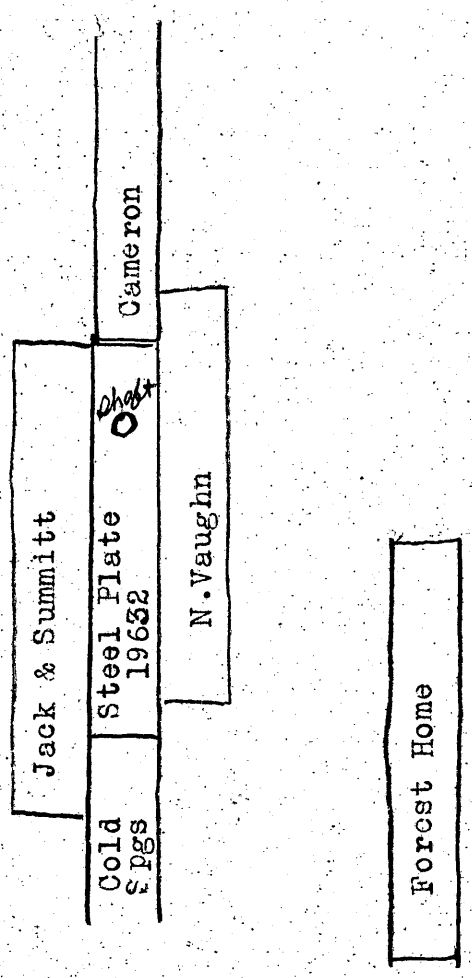
Propose to sink shaft 150 feet and drive drifts east and west 200feet. Estimated time one and half to two years

Que 22., Geology is practically the same as of the Forest-Home., Cold Springs.,Jack and Summitt.,The past production of Mines or either side, the strong vein in this shaft carrying pockets of tungsten from the discovery at 6 foot to bottom at 43 feet are the factors leading to the belief commercial bodies of ore will be located with developement.

Proposed workings




Surface Map



MF
Appendix D, form 103

The requirements and costs.,

Que. 23.

| | | |
|---|---|---|
| (a) (b) | 1 Supervisor @ $16.00 per shift<br>3 Laborers 12.00 per shift<br>20 days per month ~~[illegible]~~x$1,040.00<br>18 Months | $ 18,720.00 |
| (c) | None | |
| (d) | Shaft house, Lumber material & Labor | 1,000.00 |
| (e) | Jack-hammer, hose, supports. | 500.00 |
| (f) | Rental of equipment, Compressor, hoist and sump pump $100.00 per mo | 1,800.00 |
| (g) | None | |
| (h) | Supplies., Powder, fuse, caps, steel, bits, timber, gasoline and oil, small tools, pipe and track., Approximately., | 2,980.00 |
| | | $ 25,000.00 |

Que 24

Sinking shaft expect to make 1½ feet per day, 30 feet per month-, 5 months 150 feet.,

Drifting about 30 feet per month, 11 months about 330 feet.

Expend the smallest amount of Government money necessary to put on a paying basis.

CERTIFICATE OF ANALYSIS

# HILL & JUDE

. . . . . Assayers and Engineers

800-812 Pearl Street Phone 1345-J Boulder, Colorado

August 28, 1951

DETERMINATIONS MADE FOR: HETZER MINES, INC.

LOT NO. 195 11.70% $WO_3$

CHARGES:

HILL & JUDE

# HETZER MINES, INC.

250 Pearl Street
BOULDER, COLORADO

PHONE 61

PURCHASER

No.

Shipped By Brown, Hecker and Monroe
Vendor

## SETTLEMENT SHEET

Residence of Vendor

August 29, 1951
Date of Sale, 19

| DATE | SHIPPED FROM Source from which Vendor obtained same. | LOT NO. | GROSS WEIGHT | TARE | Per Cent Moisture | LBS. H2O | NET WEIGHT | ASSAY | TUNGSTIC ACID | PRICE PER LB. | GROSS VALUE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aug. 27, 1951 | | | | | | | | | | | |
| | Steel Plate | 195 | 5970 | 5200 | 1 | 8 | 762 | 11.70 | 89.15 | 2.13 | 189.89 |

The above MEMORANDUM OF SALE contians a true statement of 1—the date of sale; 2—residence of vendor; 3—the nature and amount of the article sold; 4—the source from which the vendor obtained same; and 5—the consideration actually paid; receipt of which, in full, as shown by the "Net Value" above, is hereby acknowledged.

VENDOR

| DEDUCTIONS | | |
|---|---|---|
| Royalty 15% | Juanita Clark | 28.48 |
| Sampling & Assaying | | 10.00 |
| Hauling | | |
| Milling | | |
| | | |
| | | |
| Total Deductions | | 38.48 |
| Net Value | | 151.41 |

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

224 New Customhouse
Denver 2, Colorado

September 23, 1952

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Termination of Contract Idm-E292, Docket DMA 2100, A. F. Eccker, M. F. Brown and Roy Munro

Enclosed are the original and two copies of "Notice of Termination and Rescission of Exploration Project Contract Before Work is Begun". Copies of this notice have been sent by registered mail to each of the three partners. A copy has also been given to the Fiscal Officer, Region IV, and a copy retained for our files.

W. H. King

W. H. King

Enclosures

RECEIVED
OCT 8 - 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

S & S
9/29/52
cac

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

224 New Customhouse
Denver 2, Colorado

June 9, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 12 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2100, (Tungsten) Steel Plate Mine, Boulder County, Colorado

Enclosed are the original and three copies of the final report on DMA Docket 2100.

The contract has been drawn and is in force.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

E-292 - contract executed within the delegation of authority of Region IV.

ON-SITE EXAM

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

224 New Customhouse
Denver 2, Colorado

December 14, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration
Attention: Code 210

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 2100, Steel Plate Tungsten Mine, Boulder County, Colorado, Brown, Eccker, and Munro, Applicants

Enclosed herewith in duplicate are Form 3b pertaining to the subject docket.

The exploration project has been approved in an amount not to exceed $13,000. The contract is being prepared in this office.

A copy of the final report will be forwarded to you with your copy of the contract.

J. H. East, Jr.

A. H. Koschmann

cc: WMTraver w/copy of final report
PTAllsman " " " "
AHKoschmann " " " "
DMA Final Report

Mining Division
Region IV

December 14, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket M.60, Steel Plate Tungsten Mine, Boulder County, Colorado. Applicants: Evans, Kocher and Bure, Partners

The application of the subject docket was for an exploration loan of $25,000.00. Work proposals consisted of 150 feet of shaft sinking and 330 feet of drifting.

After field study, the examining team recommended a modified program with which the applicants concurred.

The modified program consisted of 100 feet of shaft sinking and 200 feet of drifting at an estimated cost of $13,500.

We concur with the recommendations of the examining team that the exploration project be approved for an amount not to exceed $13,500. Government participation would be 75 percent, or $10,125.

Paul T. Allsman

Paul T. Allsman

DEPARTMENT OF THE INTERIOR
DENVER, COLORADO
JUN 17 1952

Reviewed by
DMEA OPERATING COMMITTEE
6-16-52
(date)

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

200 New Customhouse
Denver 2, Colorado

November 27, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 2100, Steel Plate Tungsten Mine, Boulder County, Colorado, Brown, Becker, and Munro, Applicants

Attached are 8 copies of the geologic report by Ogden Tweto covering subject docket.

The Steel Plate mine is a new shaft on the unexplored western segment of the Steel Plate vein in the Boulder tungsten district, Colorado. The eastern end of the vein has been moderately productive and many productive veins lie on each side of it. The ore bodies are localized where the vein cuts aplite dikes in the granite.

A shallow shaft on the subject property, sunk on the vein which here also has aplite wall rock, showed ferberite all the way, and Tweto recommends that an exploration loan be granted, but that the exploration plans submitted by the applicant be modified. Instead of sinking the shaft 150 feet below its present level, he recommends 100 feet; instead of 350 feet of drifting, he recommends 200 feet. Both to be done at a total cost of about $13,500.

I concur with these recommendations.

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

Enclosures (17)
Including:
Geologic Report (8)
Map (8)
Brochure (1)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
December 6, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2100, Steel Plate Tungsten Mine, Boulder County, Colorado

Please find enclosed the original and seven copies of the "Engineering Report", by F. D. Everett, on the subject docket. The "Summary, Conclusions, and Recommendations" are being typed for submission by the U. S. Geological Survey.

The examining team recommend an alternate project that Everett estimates will cost $13,500.00 instead of the $25,000.00 requested by the applicant. Work comprises sinking the Steel Plate shaft 100 feet and 200 feet of drifting on the vein as dictated by geological conditions.

Everett concludes the Steel Plate vein is fairly strong and persistent, showing consistent tungsten mineralization, and is located in a favorable area; the applicants are experienced in mining in the Boulder tungsten district; and, due to the present urgent need for the metal, the revised project is justified. I concur.

The brochure submitted by the Region IV Field Team October 1, 1951, is returned herewith along with six copies of the applicants' lease from Meteor Mines, Inc. It is understood subordination agreements are available when required.

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

enclosures

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

# DMA-2100, Steel Plate Tungsten Mine

## Boulder County, Colorado

## Tungsten

O. Tweto, Geologist
U. S. Geological Survey

F. D. Everett, Mining Engineer
Bureau of Mines

December 6, 1951

STEEL PLATE TUNGSTEN MINE

BOULDER COUNTY, COLORADO

BROWN, BOTTER, AND NUNNO, APPLICANTS

DMA DOCKET 2100

# SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Ogden Tweto
U. S. Geological Survey
and
F. D. Everett
U. S. Bureau of Mines

DMA DOCKET 2100
STEEL PLATE TUNGSTEN MINE
BOULDER COUNTY, COLORADO

## SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto and F. D. Everett

The Steel Plate "mine" is a new prospect shaft on a virtually unexplored segment of the Steel Plate vein, on the east flank of Murrisane Hill, in the Boulder tungsten district, Colorado. The shaft has been sunk 42 feet on the vein, with more or less ferberite showing all the way. The vein is in aplite at the shaft, a favorable wallrock, as many of the ore shoots in this area are localized where veins cross aplite dikes in the granite.

Further exploration of the vein is clearly warranted. The applicants have requested a loan of $25000 to sink the shaft 150 feet and drift 350 feet, a project that is somewhat more extensive than necessary or warranted at this stage. It is suggested that the sinking be reduced to 100 feet and the drifting to 200 feet, a project that is estimated to cost $13,500.

It is recommended that an Exploration Loan of $13,500 (Government participation 75%, or $10,125) be granted to sink the Steel Plate shaft 100 feet and drift 200 feet.

# STEEL PLATE TUNGSTEN MINE

# BOULDER COUNTY, COLORADO

# BROWN, ECCKER, AND MUNRO, APPLICANTS

DMA DOCKET 2100

Geologic Report

Ogden Tweto
U. S. Geological Survey
Denver, Colorado

STEEL PLATE TUNGSTEN MINE
BOULDER COUNTY, COLORADO

## INTRODUCTION

The Steel Plate "mine" is a prospect shaft on the east slope of Hurricane Hill, about 800 feet south of the Forest Home mine and 500 feet northwest of the Vasco No. 1 mine, in the Boulder tungsten district, Colorado. It is at an elevation of 8540 feet, about 400 feet west of the Hurricane Hill road. The Steel Plate claim is owned by Juanita Clark and leased by the applicants, who have also leased adjoining claims from Hetzer Mines, Inc. The Steel Plate vein is a relatively long vein that has been worked chiefly near the eastern end, in the area south of the Cold Spring mine. Most of the western part is covered, and the chief workings on it is a shaft 40 or 50 feet deep, about 350 feet west of the road. In the summer of 1951, the applicants uncovered the vein 65 feet southwest of this shaft by trenching with a power shovel and found some ferberite on it. They then began sinking a shaft in their spare time, using a windlass. When the property was examined on October 9, this shaft was down 42½ feet.

The applicants have requested a loan of $25,000 (Government participation 75%, or $18,750) to sink the shaft 150 feet and do 350 feet of drifting. (200 feet of drift stipulated at one place in the application, but cost estimate based on 350 feet.)

## GEOLOGY

The Steel Plate vein is one of the numerous tungsten veins in the highly productive area on the east flank of Hurricane Hill. It strikes

N. 55° E. and dips 80°-85° NW. The wallrocks are granite cut by dikes of aplite and pegmatite. The vein has been moderately productive from several shafts, tunnels, and trenches, and numerous productive veins lie within 1000 feet on each side of it. The production from the vein has come chiefly from small ore bodies localized where the vein cuts dikes of aplite.

At the shaft of the applicants, the vein strikes N. 57° E. and dips 75° NW. Except for pieces of vein matter and ferberite, it is almost indistinguishable to a depth of about 10 feet, but below that it is a well-defined vein 8 to 24 inches wide consisting of sheeted and locally somewhat silicified aplite and granite seamed by small veinlets of horn quartz and containing veinlets, nodules, and small pods of ferberite. The vein is softer and wider in the east end of the shaft than in the west end. Apparently a vertical slip takes off into the hanging wall at a small angle to the main vein in the eastern end of the shaft; the shattered rock between the two fractures is altered, soft, and gouge.

The shaft is largely in aplite, which seems to be part of a very irregular dike. Granite shows at places in the shaft, and at a depth of about 20 feet there is a small patch of gneiss (partly assimilated schist) which grades into the bordering granite.

Ore was found continuously from the surface down to the present bottom of the shaft, chiefly in the narrower and harder part of the vein at the west end of the shaft. At one place, however, nodules of ferberite were found in soft, altered and oxidized rock in the eastern end of the shaft. The ore found thus far is neither wide nor rich, but it is certainly abundant enough to warrant further exploration of the vein. Two small shipments of ore sorted from the development muck have been shipped thus

far. One, of 762 lbs., ran 11.70% $WO_3$; the other, of 2485 lbs., ran 3.00% $WO_3$. A small pile of ore at the shaft at the time of inspection was estimated to run at least 3% $WO_3$. This ore is brownish and oxidized, and traces of tungstite can be seen on many surfaces and in vuggy cavities. The operators say that the ultra-violet lamp shows scattered small grains of scheelite in most of the ore.

The shallow shaft 65 feet northeast of the prospect shaft produced tungsten valued at $5000 to $6000 in 1917-18 and was abandoned when the price fell in 1918, according to old-time miners in the district. The dump shows it is largely in aplite, but a trench about 80 feet farther northeast is in granite. This trench did not cut the vein; it appears to be too far north. The vein was cut in the extreme northwest end of a trench about 100 feet southwest of the prospect shaft, where it is in granite and is barren.

## CONCLUSIONS

The Steel Plate vein, in the vicinity of the applicants' shaft, is a moderately strong vein in a virgin area. It contains some ore and has walls of aplite, a rock in which many of the ore shoots of this area are localized. The vein clearly warrants further exploration. On the other hand, the operation here is still in the prospect stage, and the plans submitted by the applicants seem a little too ambitious for this stage. Instead of sinking the shaft 150 feet, I think 100 feet, in addition to the present depth, is ample, and instead of drifting 330 feet, 300 feet should be ample. I discussed such a reduction of the project with Brown and Weeker at the time of examination, and they are agreed to it. The

cost of such a project is estimated at $13,500 in the accompanying engineering report, little more than half the cost of the project submitted by the applicants.

The proposed work is shown in a general way on the map and section in Figure 1. The actual level or depth of the drifts, and the distribution of the drifting footage between drifts to the northeast and to the southwest, should be decided after the sinking is accomplished.

## RECOMMENDATIONS

It is recommended that an Exploration Loan of $13,500 (Government participation 75%, or $10,125) be granted to sink the Steel Plate shaft 100 feet and do 200 feet of drifting, as outlined above.

# STEEL PLATE TUNGSTEN MINE
# BOULDER COUNTY, COLORADO

Engineering Report

By F. B. Everett
Mining Engineer
Bureau of Mines

STEEL PLATE TUNGSTEN MINE
BOULDER COUNTY, COLORADO

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STEEL PLATE TUNGSTEN MINE
BOULDER COUNTY, COLORADO

ENGINEERING REPORT

By

F. D. Everett

## INTRODUCTION

Favorable exploration work for tungsten minerals on the Steel Plate claim, which is on the east slope of Hurricane Hill 2 miles northeast of Nederland, Boulder County, Colo., on the Gold Springs-Forest Home road, resulted in the lessees of the property applying for a Defense Minerals Administration loan for $25,000.00 (Docket 2100). The proposed work included sinking a shaft 150 feet and driving 330 feet of drift.

The applicants have consented to limit their proposal to sinking 100 feet of shaft and driving 200 feet of drift.

The proposed shaft has been sunk and timbered for 50 feet as of October 25, 1951.

## ACKNOWLEDGMENTS

Acknowledgment is made to H. F. Brown and Roy Munro, lessees, for their cooperation in showing the property and supplying helpful information.

## LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The mine is in the northeast quarter of sec. 7, T. 1 S., R. 72 W., 6th P. M., 2 miles over dirt road northeast of Nederland, Boulder County, Colo., and on the east slope of Hurricane Hill; it is about 600 feet south of the Forest Home mine. Nederland is 17 miles west and a little south of Boulder, Colo., over a good paved road. Denver is 47 miles

away over State Highways 119 and 7 and U. S. Highways 87 or 185 (fig. 1).

The tungsten area is halfway between the foothills of the Great Plains and the Continental Divide in the Colorado Front Mountain Range. The altitude at the property is about 8,550 feet above sea level.

The immediate area near the property consists of well-rounded slopes, which drain into several steep-sided gulches.

The summers are mild and pleasant. Winters are not too severe considering the altitude but snowfalls of 2 to 5 feet are not uncommon. In general, year around mining operations are possible.

The area is covered with green pine timber; the lessees intend to utilize much of the timber on the Steel Plate claim.

Nederland has a population of about 380. Most mining supplies can be obtained in either Nederland or Boulder. Denver is the nearest source of heavy equipment and machinery.

## HISTORY AND PRODUCTION

An old, caved shaft on the Steel Plate claim is reported to have been sunk during World War I, and yielded tungsten ore valued at about $6,000.00. The Forest Home, Cold Springs, Vasco No. 2, and Vasco No. 7 are other nearby mines that have had substantial tungsten production.

The Jack and Summit claims have several shafts and large dumps also indicating a substantial past production.

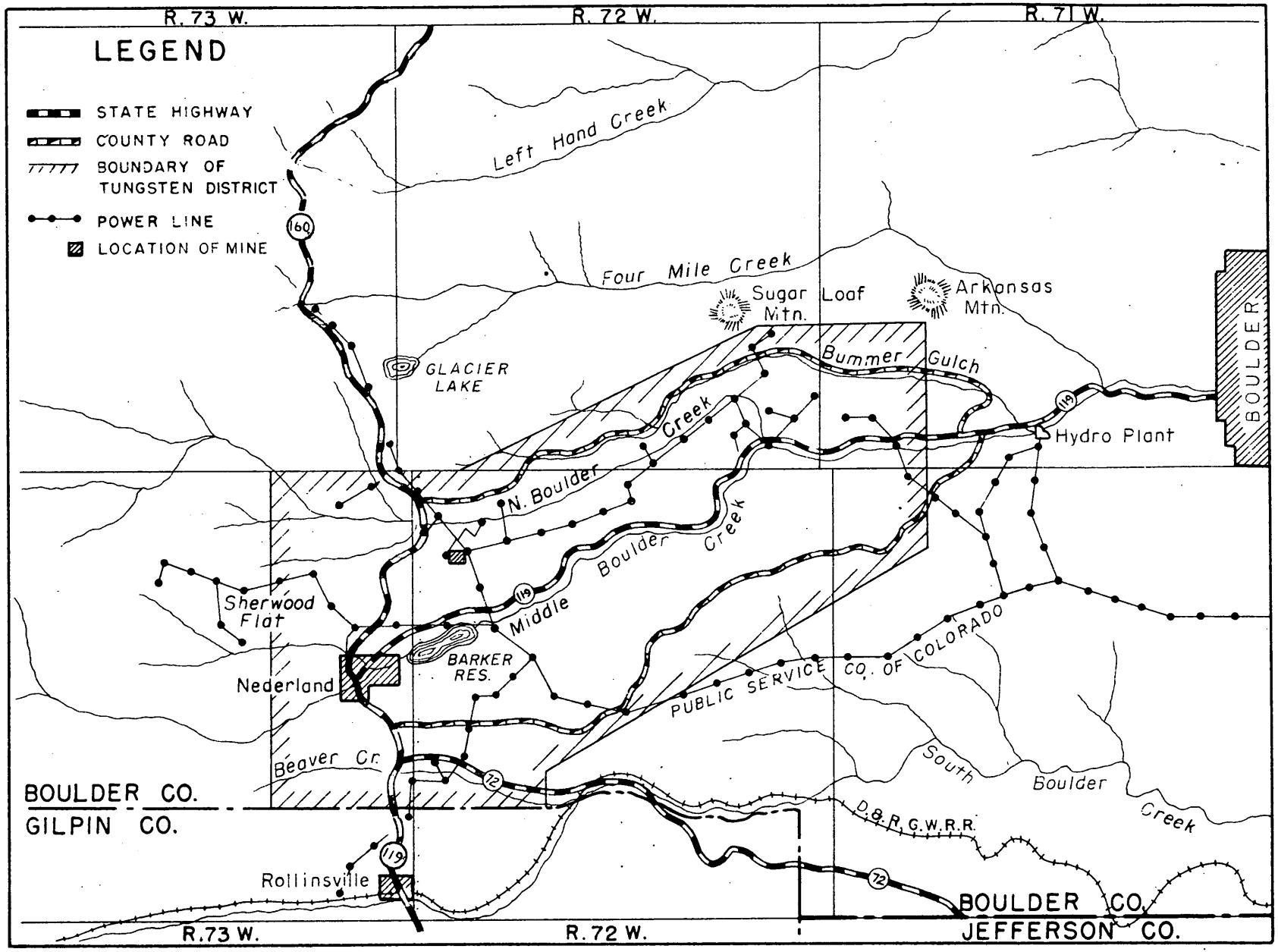



FIG.1-LOCATION MAP, STEEL PLATE MINE, BOULDER CO., COLO., D.M.A.-2100

## OWNERSHIP AND EXTENT

The Steel Plate claim is owned by Juanita Clark and leased to the partnership of M. F. Brown, A. F. Eccker, and Roy Munro for three years to August 15, 1954. A copy of the lease was included with the brochure.

After submitting the Defense Minerals Administration loan application, the applicants secured a 5-year lease on the Big Cameron, Big Jack, and those portions of Jack, Summitt, and Fraction claims that are west of the road. These claims are southwest of the Steel Plate claim and are leased from Hetzer Mines, Inc., (fig. 2).

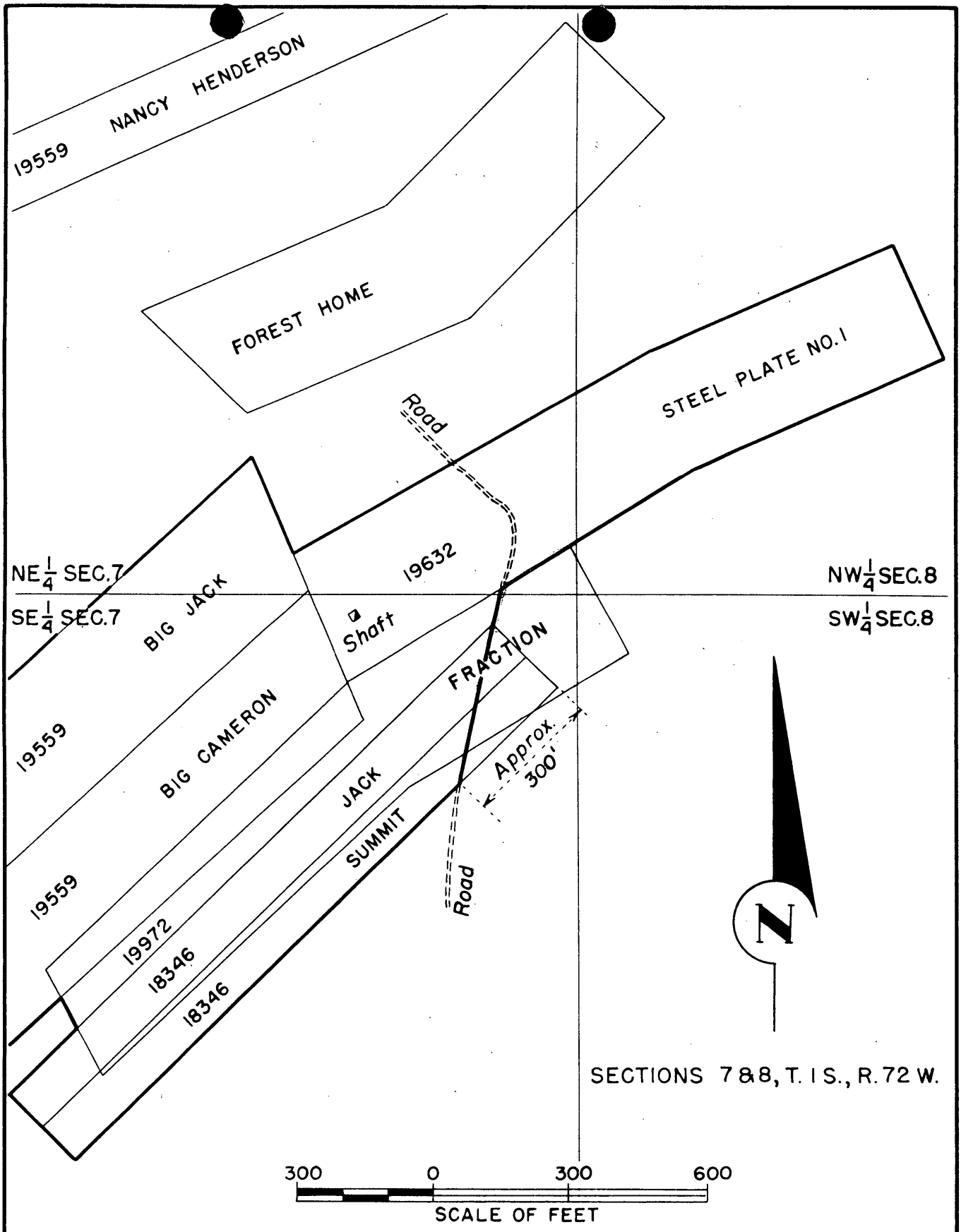
Claims leased by the applicants

| Claim | Patented Survey No. | Owner |
|---|---|---|
| Steel Plate | 19632 | Juanita Clark |
| Big Cameron | 19559 | Hetzer Mines, Inc. |
| Big Jack | 19559 | " " " |
| Jack (100 feet wide) | 18346 | " " " |
| Summitt (100 feet wide) | 18346 | " " " |
| Fraction | 19972 | " " " |

## DESCRIPTION OF THE DEPOSITS

The vein on the Steel Plate claim is one of several found in this area on Hurricane Hill. The overburden is 8 to 10 feet deep. The vein is in granite and a shaft is being sunk on an aplite dike, although the structural features of the dike are not clearly outlined all the way down the shaft. The vein varies from 8 to 24 inches in width, being composed of aplite, granite, horn quartz, and some ferberite, The strike is N. 57° E. and the dip 73° NW.

The shaft is cribbed solid for 12 feet and timbered and lagged to 30 feet. From 30 feet to the bottom at 50 feet, the shaft was not lagged solid. The vein is fairly soft, being still in the surface oxidized zone.

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BUREAU OF MINES

FIG. 2 - CLAIM MAP, STEEL PLATE MINE, BOULDER CO., COLO., D.M.A.-2100

A trench 15 feet deep on the Big Cameron claim just southwest of the end boundary of the Steel Plate claim has revealed a portion of the vein that contains up to 1-1/2 inches of high-grade ferberite. Ferberite is also disseminated throughout the remainder of the exposed vein.

Some water is beginning to seep into the bottom of the shaft.

Drifts will require some timbering in the soft zones.

The shaft is not expected to make much water and with a continuous operation can probably be bailed successfully.

The tungsten mineral is ferberite that can be readily sorted to maintain a shipping grade of over 1 percent $WO_3$.

## ORE RESERVES

The Steel Plate mine is in the prospect stage and no ore reserves have been developed.

The recent shaft sinking work has yielded some ferberite ore which has been sorted and shipped to the Hetzer mill, at Nederland. One lot of 762 pounds assayed 11.7 percent $WO_3$; the other lot of 2,485 pounds assayed 3.00 percent $WO_3$. A small pile, estimated at 2,000 pounds or more, should assay about 3 percent $WO_3$.

## PRESENT STATUS

### Exploration and Development

The Steel Plate claim has two 50-foot shafts, one caved and the other currently being sunk. Trenches are being excavated across the vein with a track-mounted digger-shovel. The proposed work will be on the vein covered by the Steel Plate and Big Cameron claims.

## Mining and Milling Equipment

The applicants have a made-over Ford model A motor compressor, which can supposedly deliver 100 cubic feet of air per minute and is reportedly adequate for operating one drilling machine. A single drum hoist, powered by a Buick gasoline motor, with 300 feet of cable, will be set up at the shaft. A jackhammer with some steel and hose is to be used in sinking and, after purchasing a column, arm, and shell, can probably be used for drifting. The applicants have three 800-pound-capacity buckets, a water bailer, 2 1/2- by 4-foot air receiver, sheave wheel, blacksmith forge, and some small tools. A pump is also owned but cannot be used without electric power. A used, 14- by 20-foot building and an old headframe, now at the Dury Hill mine 8 miles to the south, will be reconstructed at the Steel Plate shaft.

There is no milling equipment.

The equipment owned by the applicants is listed and appraised as follows:

| Equipment | Estimated Value | Monthly Rental Allowed |
|---|---|---|
| Compressor, model A motor converted, powered by Nash gasoline motor, rated at 100 c.f.m. at 90 pounds pressure | $1,500.00 | $25.00 |
| Hoist, single drum friction, 24-inch drum length by 24-inch maximum diameter, powered by Buick gasoline motor, 300 feet of 1/2-inch cable | 1,500.00 | 25.00 |
| Jackhammer | 180.00 | 3.00 |
| Ore buckets (3) | 90.00 | 1.50 |
| Air receiver, 2 1/2-foot diameter by 4 feet long | 240.00 | 4.00 |
| Water bailer, blacksmith forge, and miscellaneous small tools | 150.00 | 2.50 |
| Total | | $61.00 |

## PROJECT PROPOSALS, WITH COSTS

### Exploration and Development

The applicants were somewhat inconsistent in their work proposals; one proposal consisted of 150 feet of sinking and 200 feet of drifting and the other of 150 feet of sinking and 130 feet of drifting.

The proposal outlined by the Defense Minerals Administration examining team and approved by the applicants includes 100 feet of sinking and 200 feet of drifting along the vein according to the geological conditions (fig. 3). The shaft is at present 50 feet deep and may be deepened a few feet farther by the time the contract can be approved. The total depth of the shaft should be about 160 feet with sump (fig. 3).

The shaft is 5 by 8 feet in size. Drifts will be driven 4 1/2 feet by 7 feet in cross section.

The sinking and drifting costs per foot are estimated as follows:

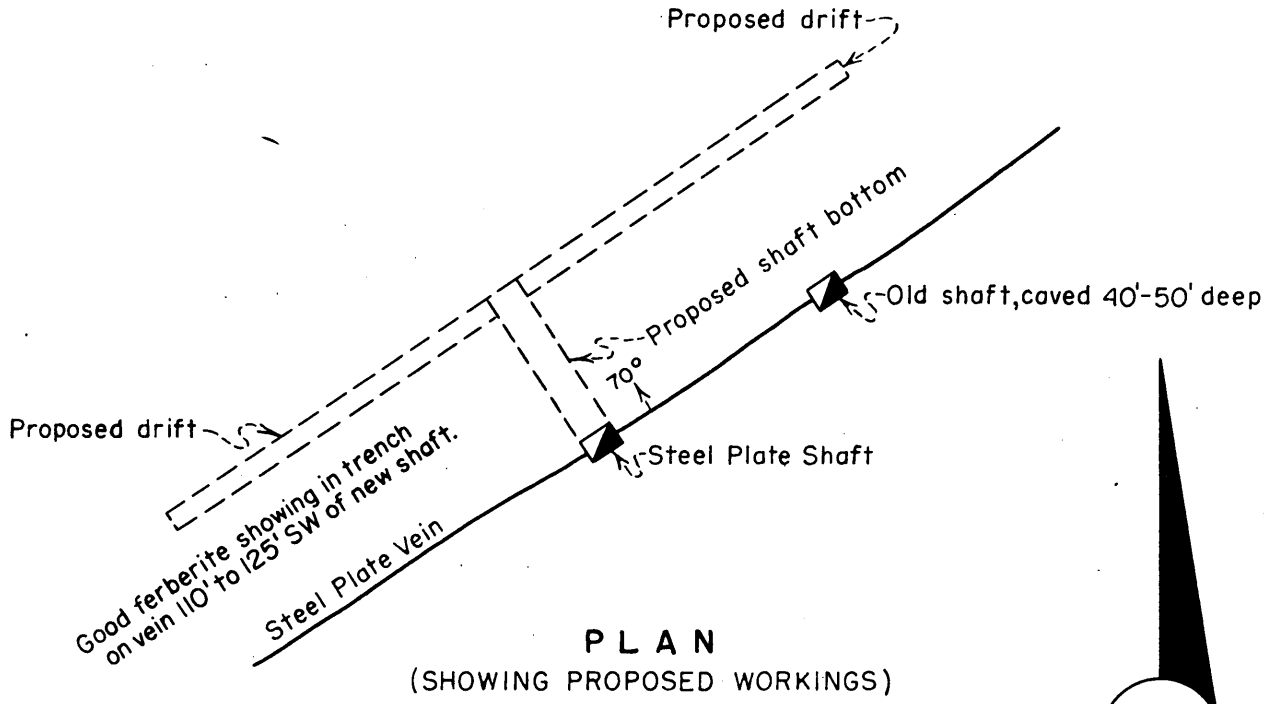
(1) 100 feet of shaft sinking, 1 1/2 feet of advance per day, 67 days for completion.

(a) Labor, at $1.50 per hour

| | | |
|---|---|---|
| Hoistman at $12.00 a day | $ 804.00 | |
| 2 - miners at $24.00 a day | 1,608.00 | |
| Foreman at $16.00 a day | 1,072.00 | |
| Compensation | 102.00 | $3,586.00 |

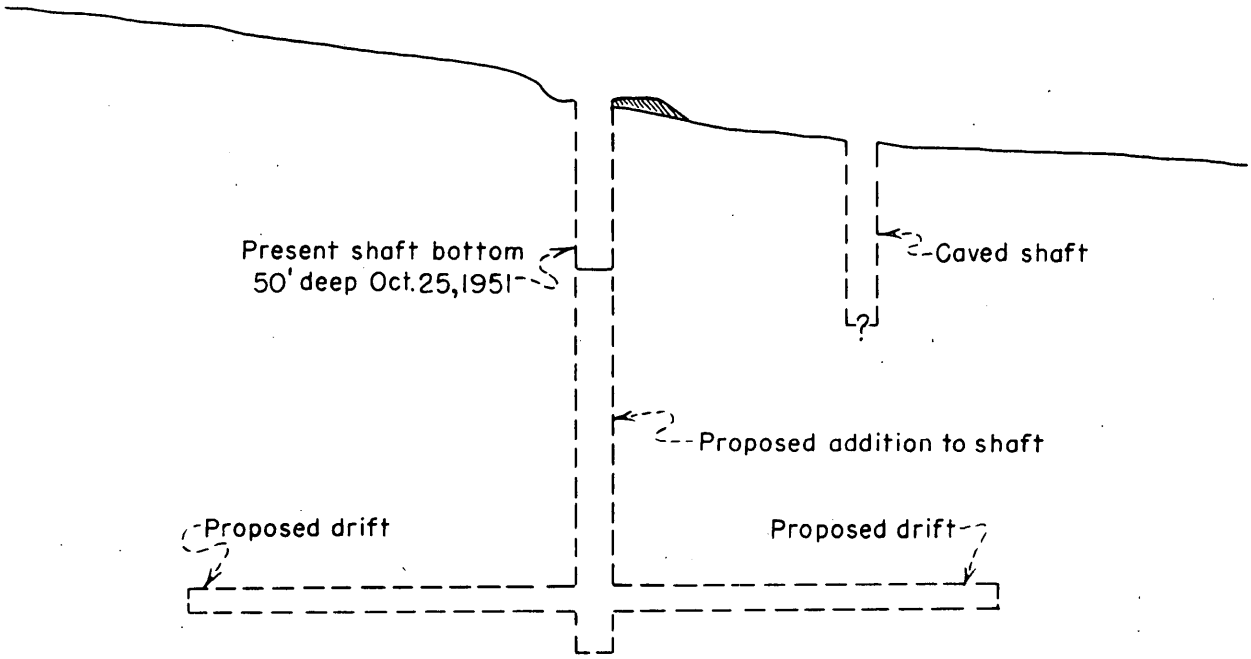
| | | |
|---|---|---|
| (b) | Timber, 20 sets at $20.00, and skidway | 600.00 |
| (c) | Explosives | 200.00 |
| (d) | Gasoline | 115.00 |
| (e) | Steel and bits | 225.00 |
| (f) | Pipe, air, 150 feet of 2-inch | 48.00 |
| (g) | Pipe, water, 175 feet of 2-inch | 56.00 |
| (h) | Miscellaneous supplies and pumping or bailing costs | 250.00 |
| | Total | $5,500.00 |

Cost per foot is estimated at $55.00




**PLAN**
(SHOWING PROPOSED WORKINGS)

NOTE: RELATIVE LENGTHS OF DRIFTS TO NE & SW OF SHAFT TO BE DETERMINED AFTER SHAFT IS COMPLETED & AS DRIFTING PROGRESSES.




**VERTICAL PROJECTION**
(SHOWING PROPOSED WORKINGS)

50 0 50 100
SCALE OF FEET

COLORADO BRANCH- MINING DIVISION-REGION IV
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FIG. 3—PLAN & SECTION SHOWING PROPOSED WORKINGS, STEEL PLATE MINE, BOULDER CO., COLO., D.M.A.-2100

(2) Drifting 200 feet, 2 1/2 feet of advance per day, 80 days for completion.

(a) Labor, $1.50 per hour

| | | |
|---|---|---|
| Hoistman at $12.00 a day | $ 960.00 | |
| 2 - miners at $24.00 a day | 1,920.00 | |
| Foreman at $16.00 a day | 1,280.00 | |
| Compensation | 123.00 | $4,283.00 |
| (b) Timber, 30 sets at $17.00 | | 510.00 |
| (c) Explosives | | 720.00 |
| (d) Gasoline for hoist and compressor | | 400.00 |
| (e) Steel and bits | | 220.00 |
| (f) Pipe, air, 200 feet of 2-inch | | 64.00 |
| (g) Track, 400 feet of 12-pound rail | | 150.00 |
| (h) Miscellaneous supplies | | 153.00 |
| Total | | $6,500.00 |
| Cost per foot is estimated at | | $32.50 |

## New Equipment and Facilities

The present equipment owned by the applicants may be sufficient. However, an allowance should be made for a pneumatic sump pump if more water is encountered than can be economically bailed and for a drifter with accessories if the ground is too hard for the jackhammer. If considerable pumping is required, a compressor may be required to supplement the one owned by the applicants.

The building and headframe to be moved from the Dory Hill mine and reconstructed at the Steel Plate shaft will need some new materials such as roofing, nails, and reinforcing timber. Labor costs must be allowed for the reconstruction work. This work may be completed before a loan contract is approved.

The following items might be required and should be approved for rental if requested by the applicants:

| Item | Maximum monthly rental allowed |
|---|---|
| Pneumatic sump pump | $112.00 |
| Portable gasoline or diesel compressor | 164.00 |
| Drifter drill, with arm, column, and accessories | 75.00 |
| Total | $351.00 |

The following equipment items are approved for purchase:

| Item | Estimated cost |
|---|---|
| Drill column, arm, and clamps | $100.00 |
| Jackhammer carriage shell | 100.00 |
| Bucket dollies (2) | 100.00 |
| Total | $300.00 |

Timber, bits, pipe, track, and explosives will be classified as supplies.

## Transportation

The applicants will provide for their transportation.

A road from 400 to 500 feet long over a relatively flat area should be bulldozed to allow easy access to the property. A charge of $120.00 is justified for hiring a bulldozer to do this work.

## Manpower

Ecker, Brown, Munro, and Ecker's brother comprise the labor complement. The pay scale is $1.50 per hour for three laborers and $2.00 per hour for the working foreman, A. F. Ecker. The partners intend to work a 6 or 7 days a week at the regular pay scale without overtime. Hired employees will not be allowed overtime.

## Power

Although electric power transmission lines cross the property, the cost of installing power is too high for a small operation.

The compressor and hoist will utilize gasoline for power.

## Water

It is expected that water for mining will be supplied from the shaft.

## SUMMARY: COST OF PROJECT

The cost of the project is summarized as follows:

| | |
|---|---|
| Shaft sinking, 100 feet at $55.00 a foot | $5,500.00 |
| Drifting, 200 feet at $32.50 a foot | 6,500.00 |
| Equipment | 300.00 |
| Access road | 112.00 |
| Building and headframe (labor and supplies) | 500.00 |
| Contingencies (installing equipment, possible price increases, et cetera) | 588.00 |
| Total | $13,500.00 |

## PRODUCTION PLAN

### Time Schedule

The time schedule for completion of the project is estimated as follows:

| | |
|---|---|
| Construction of building and moving headframe | 8 days |
| Installation of compressor and hoist | 3 |
| Shaft sinking and timbering at 1 1/2 feet per day | 67 |
| Drifting at 3 feet per day | 80 |
| Total | 158 days |

Based on a 5-day work week, the project should be completed within eight months.

## Rate of Production

Nothing can be estimated for the rate of production until after the exploration is completed.

## Mining Methods and Costs

Mining in the district usually consists of open stoping with stull support. Stopes are generally very narrow. Mining costs average $15.00 to $22.00 a ton. All ore is carefully sorted. It has been stated that ferberite ore averaging one-half inch in width can be mined profitably.

## Milling Methods and Costs

The ore will be transported to the flotation mill of the Vanadium Corporation of America, formerly the Wolf Tongue mill operated by Ketner Mines, Inc., at Nederland.

The purchase schedule under the new mill management has not been issued but one similar to the Ketner schedule is expected.

Wolf Tongue Mill Purchase Schedule
(Effective before October 25, 1951)

| Percent $WO_3$ | Per Pound | Per Unit | Per Ton |
|---|---|---|---|
| 1 | $1.30 | $26.00 | $26.00 |
| 2 | 1.50 | 30.00 | 60.00 |
| 3 | 1.65 | 33.00 | 99.00 |
| 4 | 1.75 | 35.00 | 140.00 |
| 5 | 1.85 | 37.00 | 185.00 |
| 6 | 1.90 | 38.00 | 228.00 |
| 8 | 2.00 | 40.00 | 320.00 |
| 10 | 2.10 | 42.00 | 420.00 |
| 15 | 2.20 | 43.60 ? | 660.00 880 |

## Royalty

The partnership pays a fifteen percent royalty on the net mill or smelter returns.

## Amortization

The applicants will participate to the extent of 25 percent of the cost of the project by supplying the capital required over and above the value of their services and equipment allowance.

## CONCLUSIONS

The Steel Plate vein appears to be a strong vein containing ferberite (tungsten) mineral. Tungsten is desperately needed for national defense and every available source should be investigated.

The applicants have requested a project to sink the Steel Plate shaft 100 feet to a depth of 150 feet or more, depending on the depth when a contract is approved, and to drive 200 feet of drift along the vein according to the geologic indications.

The project is estimated to cost $13,500.00 and to require eight months to complete. The applicants are experienced miners and can be expected to do competent work.

## RECOMMENDATIONS

The project consisting of 100 feet of sinking and 200 feet of drifting is recommended for a loan of $13,500.00--participation by the Government to be 75 percent, or $10,125.00, and participation by the applicants to be 25 percent, or $3,375.00.

400

FILE COPY
SURNAME:

Selfridge
Mitt

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

MAY 5 1952

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

Re: Docket No. DMA 2100 - Tungsten
Becker, Brown and Munro, Partners
Steel Plate, et al, Lode Mining Claims
Boulder County, Colorado

Dear Mr. East:

Returned herewith are the Operator's and the Field Team copies of the subject contract which was given the number Idm-2292.

Sincerely yours,

C. O. Mittendorf (fw) J.N. 5-5-52

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures

GCSelfridge'lm
5/2/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. IV
G. C. Selfridge
Operating Committee

fa

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 10 1952

224 New Customhouse
Denver 2, Colorado

REGISTERED MAIL

April 7, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator

From: Executive Officer, Field Team, Region IV

Subject: Contract Docket DMA-2100, (Tungsten) A. F. Eccker, M. F. Brown and Roy Munro

Enclosed for a contract number are the original and five copies of the contract between the Government and a partnership consisting of A. F. Eccker, M. F. Brown and Roy Munro. All copies have been signed by the applicants and by the Regional Director, Region IV.

W. H. King
W. H. King for
J. H. East, Jr.
Executive Officer
Field Team, Region IV

Enclosures

RECEIVED
APR 18 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 21 1951

December 14, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration
Attention: Code 210

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 2100, Steel Plate Tungsten Mine, Boulder County, Colorado, Brown, Eccker, and Munro, Applicants

Enclosed herewith in duplicate are Form 3b pertaining to the subject docket.

The exploration project has been approved in an amount not to exceed $13,000. The contract is being prepared in this office.

A copy of the final report will be forwarded to you with your copy of the contract.

Paul T. Allsman, Alternate

A. H. Koschmann

Region IV case