DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Idm-E NO._____

DMEA NO. 4766

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- [ ] Withdrawn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

Right Side

- [ ] Project summary (final)
- [ ] 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
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] 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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1605 Evans Avenue
Reno, Nevada

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DMEA
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June 13, 1957

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Tungsten)
Moore Creek Mining Company
Moore Creek Mine
Calaveras County, California

Enclosed are three sets of MF-103, Application for Aid forms, relative to above subject. The fourth set has been retained in our files.

The property was previously examined July 29, 1954 (Docket No. DMEA-3362 - Tungsten). The applicant states that additional work has disclosed encouraging data.

S. Ricker

Attachments

BUREAU OF MINES
WASHINGTON, D. C.

JUN 17 . 10 15 AM '57

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED JUN 17 1957 D.M.E.A.

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. 4766
Metal or Mineral Tungsten
Date Received 6-17-57
Estimated Cost $12,176
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: Moore Creek Mining Company, P. O. Box 78, Pioneer, Calif. A Calif. Corporation. PRES.- Chester W. Decker, Box 783, Pioneer, Calif., VICE-PRES- Alfred B. Corda, Greenfield, Calif., SECT'Y-TREAS.- Eileen Stevens, 2033 Country Club Blvd., Stockton, Calif.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract White Horse Quartz Mining Claim T. 7 N. -R. 16 E. M.D.B.M. Calaveras County, Calif. Book 19, Page 278

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lease-Purchase (Now in process of renewal)

(*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. See exhibit B

(*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.

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

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

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

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

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

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

(*c*) The work will start within 14 days and be completed within 4 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated June 12, 1957

Moore Creek Mining Company, A Calif. Corp.
(Applicant)

By C. Rustin W Decker
Pres.

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

4. [illegible]:

(c) To date the development of this deposit consists of an open pit from which approximately 300 tons of ore have been mined and milled. The ore has a head value of approx of .50% (UO_3). There also exists a tunnel on this level which show values of similar grade. A tunnel has driven below this point, (one block) to get under the mineralized zone. This consists of a drift 145 feet long. A cross cut has driven to the east at a point 60 feet in mine drift. This cross cut is 70 feet long. In these workings lenses of ore varying from 6 feet to 20 feet were cross cut. These operations were supervised by Chester [illegible]. Report under the direction of Mr. Francis H. Frederick, Mining Geologist, 650 Market St., San Francisco 5, California. There is a mining equipment, 200 ton mill located on mill site near also operated by applicant. A vehicle [illegible] to driven to these workings.

(b) Approximately 1,000 tons of ore has been mined from these workings. From all indications there is between 8,000 to 10,000 tons of ore in reserve, equals of .50% (U_3O_8).

(c) The ore body is in a formation which has all the appearance of a sedimentary contact zone between granite and limestone. It is a highly granitic [illegible] and is [illegible] there considerable quartz. This formation, dips steep to steep feet in width, on the vertical and cut to north and south. It can be traced for another the distance by outcropping on surface.

The applicant proposes to conduct to the south of present workings, by a tunnel 9' x 9' and 500' in a southerly direction,

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also by 1000' of longitudinal drifting, crosscut and on both sides of lateral as indicated in sketch. This method is thought to be the most economical method and justify the double cost of general transportation and etc.

(d) In and from the mining, a distance of twenty-five miles, is situated and stated by J. C. and E. Conway to contain 5 miles of the property. This claim and adjoining points to Ophir, under Fairbanks, Alaska, a distance of 67 miles.

(e) Timbers, supplies, and material for mining and milling are available on the property to located near the Tanana Valley Country of Alaska. Sufficient water is available, and permit located from Nome Creek for water from Nome Creek and Middle Nome Creek. Electric power to be supplied by own plant, 167 K.V.A. generator.

2. [illegible]

(b) (Black, and 10 (1))

(d) This operation will be supervised by Doctor C. Foster, under the direction of a reliable mining engineer or geologist.

(e) [illegible]

(a) Independent contractor (None)

(b) Labor, Supervision, Consultants

Labor (Items b) (2.25 per hr.
8 miles at 8 hours each day each
one and a half for 26 day.
(117.00 per month, per man
6 men 12 months (8,424.00

Supervision--This could not be taken full time, and would be based at (200.00 per month.
(200.00 per hr. 3 mo. (600.00

Consultants (150.00 per visit plus (50.00 for expenses.
2 visits per mo.-3 mo. 750.00

(9,774.00

[illegible]

(c) Operating materials and supplies

Nails, caps and fuse [illegible] per lb. of [illegible] [illegible] lb. of [illegible]	$2,000.00
Miner's soap and candles	25.00
Drill steel and bits $1.50 per lb. of [illegible] [illegible] lb. of [illegible]	300.00
Carbide steel and bits $[illegible] per lb. [illegible] of bits	90.00
	$2,429.00

(d) Operating equipment

The labor list of equipment and material to be used by the operator and could be used on a month basis, as the case may dictate of cost of the proposed project, in accordance with the regulations in Section [illegible] policy. (Sec. 7, [illegible] No. 1)

3 Ingersoll Rand [illegible] $1.50 per hr. 450 operating hrs. @ $1.50	$675.00
2 [illegible] C.F.M. Compressors including fuel $6.00 per hour 450 operating hrs. @ $6.00	2700.00
1 Open hoist with [illegible] and hose $1.00 per hour 450 operating hrs. @ $1.00	450.00
Drill rods and [illegible] $0.50 per lb. 200 lb. of rods @ $0.50	100.00
	$3,925.00

(e) Installations and repairs

None

(f) Non-building, improvements, installations necessary only to furnished by operator in establishing camp and also also.

(g) Miscellaneous

Depreciation of [illegible] furnished by operator, and security | $200.00

[illegible] | $22,276.00

[illegible] Supply
Box [illegible],
[illegible], Calif.

[illegible] 6.

(b) Continuation
Page

7 (a) yes
(b) See 6 (d) (2) above

The above estimates are based on previous 6 mo of similar operations of equipment.

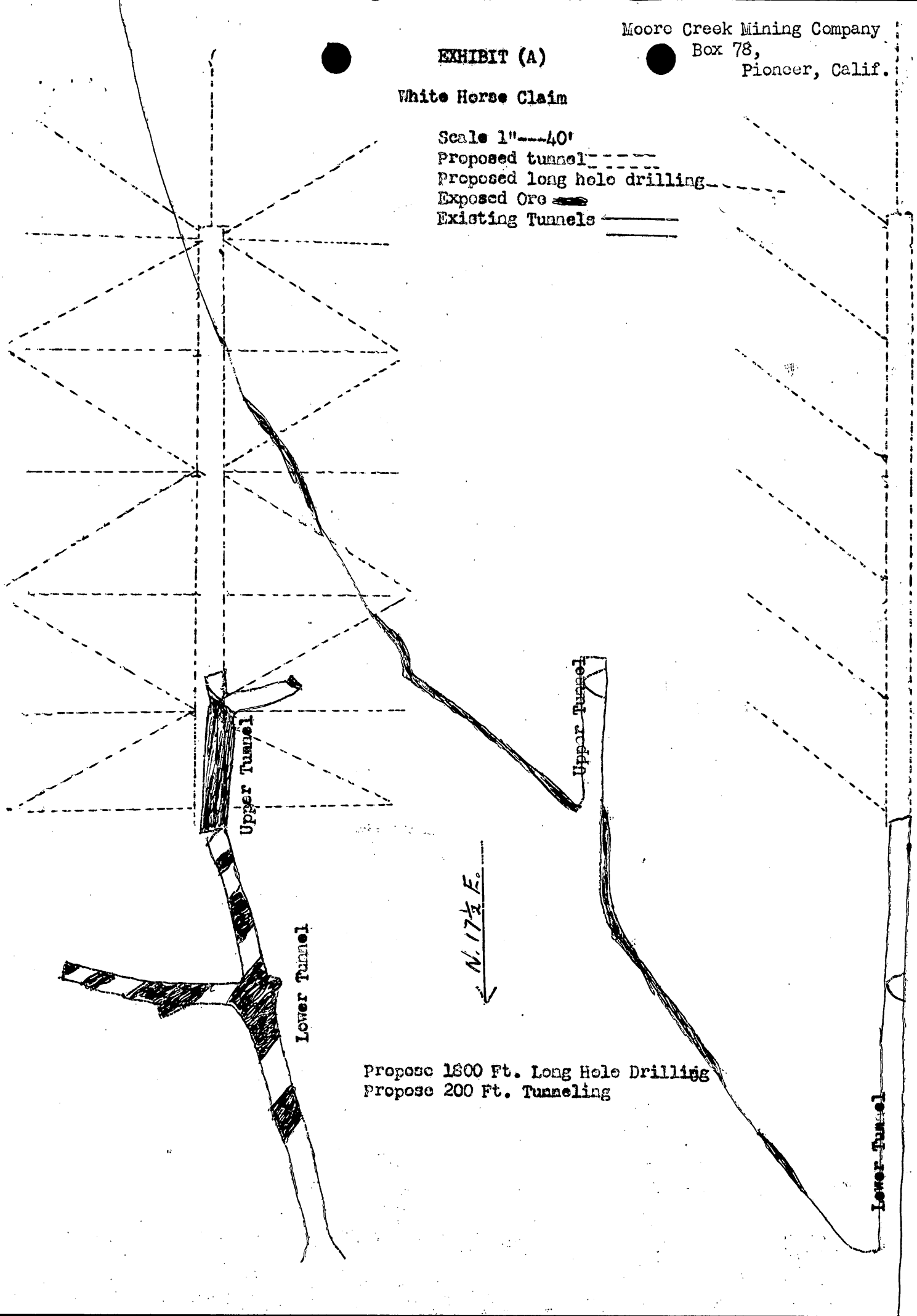
A mile cost estimate would be prohibitive to operator, based on [illegible].00 per foot of drilling, [illegible].00 per foot of long hole drilling. A total mile cost of [illegible],[illegible].00 on a 6 month contract which allows for [illegible] costs, labor by [illegible], and similar conditions.

Moore Creek Mining Company
Box 78,
Pioneer, Calif.

EXHIBIT (A)

White Horse Claim

Scale 1"---40'
Proposed tunnel- - - - -
Proposed long hole drilling- - - - - -
Exposed Ore
Existing Tunnels



Propose 1800 Ft. Long Hole Drilling
Propose 200 Ft. Tunneling

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EXHIBIT B

Moore Creek Mining Company
Box 78,
Pioneer, Calif.

MINING LEASE AND OPTION AGREEMENT

THIS MINING LEASE AND OPTION AGREEMENT MADE AND EXECUTED ON THIS 13 DAY DAY OF JULY, 1954, BY AND BETWEEN GROVER C. BRUCE AND EVELYN BRUCE, HIS WIFE, HEREIN CALLED LESSORS, AND CHESTER W. DECKER, HEREIN CALLED LESSEE,

WITNESSETH:

THAT LESSORS, IN CONSIDERATION OF THE SUM OF $1000.00 TO BE PAID AS HEREINAFTER SPECIFIED, AND THE PAYMENTS PROVIDED FOR HEREIN, AND THE FAITHFUL PERFORMANCE OF THE TERMS, CONDITIONS, COVENANTS, AND AGREEMENTS HEREIN AGREED TO BE KEPT AND PERFORMED BY LESSEE, DO HEREBY LEASE AND LET UNTO SAID LESSEE FOR THE SOLE PURPOSE OF PROSPECTING, DEVELOPING, MINING AND WORKING THE ROCK AND ORES THEREIN FOR THE TUNGSTEN, GOLD AND OTHER PRECIOUS METALS THEREIN CONTAINED, AS HEREINAFTER PROVIDED, ALL THAT CERTAIN REAL PROPERTY IN CALAVERAS COUNTY, CALIFORNIA AND PARTICULARLY DESCRIBED AS FOLLOWS, TO-WIT:

PARCEL ONE: THE WHITE HORSE QUARTZ MINING CLAIM, THE NOTICE OF LOCATION OF WHICH APPEARS OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF CALAVERAS COUNTY, CALIFORNIA, IN BOOK 19 OF MINING CLAIMS AT PAGE 278, CALAVERAS COUNTY RECORDS, REFERENCE TO WHICH IS HEREBY MADE FOR A MORE PARTICULAR DESCRIPTION THEREOF.

PARCEL TWO: THE BAY HORSE QUARTZ MINING CLAIM, THE NOTICE OF LOCATION OF WHICH APPEARS OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF CALAVERAS COUNTY, CALIFORNIA, IN BOOK 19 OF MINING CLAIMS AT PAGES 278-9, CALAVERAS COUNTY RECORDS, REFERENCE TO WHICH IS HEREBY MADE FOR A MORE PARTICULAR DESCRIPTION THEREOF.

TO HAVE AND TO HOLD THE SAID PREMISES UNTO SAID LESSEE FOR THE TERM OF 5 YEARS FROM THE DATE HEREOF.

SAID PARTIES HERETO DO HEREBY MUTUALLY CONVENANT, PROMISE AND AGREE AS FOLLOWS, TO-WIT:

1. THAT THE SAID SUM OF $1000.00 SHALL BE PAID TO LESSORS BY LESSEE ON OR BEFORE THE 25TH DAY OF SEPTEMBER, 1954, OR UPON THE COMMENCEMENT OF THE ERECTION OF A MILL UPON THE PROPERTY HEREBY LEASED, WHICHEVER SHALL FIRST OCCUR, AND THAT THE SAID SUM SHALL BE IN ADDITION TO ALL ROYALTIES AND PAYMENTS AS HEREINAFTER PROVIDED.

2. LESSEE SHALL HAVE THE RIGHT, DURING THE LIFE OF THIS LEASE, AND AGREEMENT, OF ENTERING INTO AND UPON THE ABOVE DESCRIBED LANDS FOR THE PURPOSES ABOVE MENTIONED, WITH THE RIGHT OF INSTALLING MACHINERY AND MINING EQUIPMENT AND ERECTING BUILDINGS AND IMPROVEMENTS THEREON, INCLUDING THE RIGHT TO ERECT A MILL.

3. LESSEE SHALL HAVE THE RIGHT TO MILL OR OTHERWISE REDUCE THE ORES FROM SAID PREMISES OR TO SHIP THE SAME TO SOME RESPONSIBLE MILLING OR SMELTING COMPANY MADE KNOWN TO LESSORS FOR THE PURPOSE OF OBTAINING TUNGSTEN, GOLD OR OTHER METALS OR VALUES THEREFROM, THE PROCEEDS TO BE DIVIDED AND PAID TO THE RESPECTIVE PARTIES HERETO IN THE MANNER AS FOLLOWS:

> TEN (10) PER CENT OF THE PROCEEDS FROM TUNGSTEN, GOLD AND OTHER METALS OR PRODUCTS RECOVERED FROM ALL MILLED OR SMELTED ORES SHALL BE PAID TO LESSORS, AND NINETY (90) PERCENT THEREOF TO LESSEE.

IN THE PAYMENT AND DIVISION OF THE PROCEEDS OF MILLED OR SMELTED ORES AS ABOVE MENTIONED, IT IS AGREED THAT THE SAME SHALL BE BASED UPON MILL OR SMELTER RECOVERY, AND IT IS FURTHER AGREED THAT LESSEE WILL PAY LESSORS THEIR SHARE AS ABOVE DETERMINED, ON THE 10TH DAY OF EACH AND EVERY MONTH FOR THE PRECEDING CALENDAR MONTH OF OPERATIONS DURING THE TERM OF THIS LEASE.

4. LESSEE AGREES THAT ALL WORK OF MINING AND DEVELOPING SAID PROPERTY UNDER THIS LEASE SHALL BE DONE IN A GOOD AND WORKMANLIKE MANNER SO AS TO DEVELOP SAID PROPERTY AS A MINE FOR PERMANENT FUTURE MINING OPERATIONS AND THAT ALL OF SUCH WORK SHALL BE WITHOUT COST, CHARGE OR EXPENSE TO LESSORS OR TO SAID PROPERTY, IT BEING SPECIFICALLY AGREED THAT IN MINING AND EXTRACTING ALL ORES THE SAME SHALL BE REMOVED AS THEY ARE ENCOUNTERED AND THAT THERE WILL BE NO SELECTING OF THE HIGHER GRADES BEFORE THE LOWER GRADES IN THE MILLING AND REDUCTION THEREOF.

5. LESSEE AGREES TO COMMENCE THE ACTIVE WORK OF MINING AND DEVELOPING SAID PROPERTY WITHIN TWO WEEKS FROM THE DATE HEREOF AND TO THEREAFTER CONTINUOUSLY MINE AND DEVELOP SAID PROPERTY DURING THE LIFE OF THIS LEASE AND AGREEMENT BY DOING AND PERFORMING MONTHLY NOT LESS THAN 48 SHIFTS OF MINING WORK, EXCEPT WHEN INTERRUPTED BY UNFORSEEN ACTS, STRIKES OR LABOR TROUBLES AND SEVERE WEATHER CONDITIONS, AND IN SUCH EVENT REASONABLE DILIGENCE WILL BE USED TO REMOVE THE CAUSE OF THE INTERRUPTION AND RESUME WORK AT THE EARLIEST POSSIBLE MOMENT.

6. LESSEE AGREES TO KEEP ALL WORKMEN FULLY INSURED UNDER AND IN COMPLIANCE WITH THE WORKMENS COMPENSATION INSURANCE AND SAFETY ACT OF CALIFORNIA DURING THE OPERATIONS HEREUNDER AND TO COMPLY WITH ALL OTHER LAWS, RULES AND REGULATIONS, BOTH STATE AND FEDERAL, GOVERNING MINING OPERATIONS AND TO CONDUCT ALL WORK HEREUNDER IN ACCORDANCE WITH GOOD MINING STANDARDS AND METHODS AND TO PROMPTLY PAY ALL BILLS FOR LABOR PERFORMED AND FOR EQUIPMENT, MATERIALS, SUPPLIES, ELECTRIC ENERGY, WATER AND/OR UTILITY FURNISHED ON SAID LANDS DURING THE TERM HEREOF AND TO KEEP SAID LANDS FREE AND CLEAR OF ALL LABOR, MECHANICS' AND OTHER LIENS AND TO THAT END WILL KEEP POSTED ON SAID LANDS WHERE ANY WORK IS BEING PERFORMED, OR EQUIPMENT, MATERIALS, SUPPLIES OR UTILITIES FURNISHED, SUCH NOTICE OR NOTICES OF NON-RESPONSIBILITY ON BEHALF OF LESSORS AS SAID LESSORS MAY DESIRE AND FURNISH TO LESSEE, IT BEING AGREED, HOWEVER, THAT LESSOR ALSO RESERVES THE RIGHT DURING THE LIFE OF THIS LEASE TO POST AND KEEP POSTED A NOTICE OR NOTICES OF NON-RESPONSIBILITY OF LESSORS AND OF SAID PREMISES FOR ANY WORK OR LABOR PERFORMED OR FOR MATERIALS FURNISHED TO BE USED IN CONNECTION WITH MINING OPERATIONS HEREUNDER IN OR UPON SAID PREMISES.

7. IT IS AGREED THAT AT ALL TIMES THAT LESSEE SHALL CARRY ON MINING OPERATIONS DURING THE LIFE OF THIS LEASE, SAID LESSEE SHALL KEEP FULL, TRUE AND CORRECT BOOKS OF ACCOUNT, STATEMENTS, VOUCHERS, SMELTER AND MILL RETURNS AND RECEIPTS PERTAINING TO MINING OPERATIONS CONDUCTED HEREUNDER, AND PARTICULARLY SHOWING THE AMOUNT OF ORES EXTRACTED AND REDUCED AND THE GROSS PROCEEDS OF TUNGSTEN, GOLD AND OTHER METALS DERIVED THEREFROM, AND SAID LESSORS OR THEIR DULY AUTHORIZED AGENT SHALL AT ALL REASONABLE TIMES HAVE FREE ACCESS TO ALL PARTS AND PORTIONS OF SAID MINING PROPERTY AND PREMISES, REAL AND PERSONAL, AND TO ANY MILL OR OTHER REDUCTION WORKS WHERE SAID ORES ARE TREATED, CRUSHED OR REDUCED, FOR THE PURPOSE OF EXAMINATION AND INSPECTION, AND SHALL BE ENTITLED TO TAKE SAMPLES OF ORES AND TO EXAMINE ALL BOOKS OF ACCOUNT, STATEMENTS, VOUCHERS, MILL AND SMELTER RETURNS AND RECEIPTS AGREED TO BE KEPT AS HEREINABOVE PROVIDED.

8. IT IS AGREED THAT LESSEE SHALL HAVE SIXTY DAYS FROM AND AFTER THE TERMINATION OF THIS AGREEMENT WITHIN WHICH TO REMOVE SUCH MINING MACHINERY, TOOLS,

APPLIANCES AND EQUIPMENT, EXCEPT BUILDINGS, TRACK, PIPE AND TIMBER IN PLACE, AS MAY HEREAFTER BE PLACED IN AND UPON SAID MINING PROPERTY AND PREMISES BY LESSEE, AND IN THE EVENT THAT SAID MINING MACHINERY, TOOLS, APPLIANCES AND EQUIPMENT SHALL NOT BE REMOVED WITHIN SAID PERIOD OF SIXTY DAYS, THEN AND IN THAT EVENT THE SAME SHALL BE DEEMED AFFIXED TO THE REALTY AND BECOME A PART THEREOF AND BELONG TO LESSORS, IT BEING EXPRESSLY AGREED, HOWEVER, THAT LESSEE SHALL NOT BE ENTITLED TO EXERCISE ANY OF THE RIGHTS OF REMOVAL UNDER THIS PARAGRAPH UNTIL ALL SUMS DUE AND OWING BY LESSEE UNDER ANY OF THE TERMS AND PROVISIONS HEREOF SHALL HAVE FIRST BEEN FULLY PAID, AND PROPER ARRANGEMENTS ARE MADE FOR THE DELIVERY OF A GOOD AND SUFFICIENT QUITCLAIM DEED AND RELEASE CONVEYING AND RELEASING TO LESSORS ALL OF THE RIGHT, CLAIMS AND PRIVILEGES HEREUNDER GIVEN BY LESSORS TO LESSEE.

9. IT IS AGREED THAT LESSEE, DURING THE LIFE OF THIS LEASE, SHALL PAY ALL TAXES PRIOR TO DELINQUENCY THAT SHALL BE LEVIED OR BECOME DUE AND PAYABLE UPON THE PROPERTY HEREBY LEASED AND UPON ANY IMPROVEMENTS OR PERSONAL PROPERTY PLACED UPON SAID PROPERTY AND PREMISES BY LESSEE, OR WHICH MAY BECOME DUE BY REASON OF THIS AGREEMENT OR OF ANY OPERATIONS CARRIED ON HEREUNDER. IT IS FURTHER AGREED THAT LESSEE WILL PERFORM SUCH ASSESSMENT WORK AND RECORD SUCH NOTICES OF THE PERFORMANCE OF SUCH ASSESSMENT WORK AS MAY BE NECESSARY TO KEEP THE CLAIMS HEREBY LEASED IN GOOD STANDING, AS REQUIRED BY THE LAWS AND MINING REGULATIONS OF THE STATE OF CALIFORNIA AND OF THE UNITED STATES.

10. IT IS AGREED THAT THE TERMS AND CONDITIONS OF THIS AGREEMENT, INSOFAR AS THE LESSEE SHALL BE REQUIRED TO OPERATE, MINE AND DEVELOP SAID PREMISES, IS OPTIONAL WITH SAID LESSEE, WHO SHALL HAVE THE RIGHT, UPON GIVING THIRTY (30) DAYS NOTICE OF INTENTION TO ABANDON TO LESSORS, AND UPON THE EXECUTION AND DELIVERY TO LESSORS OF A QUITCLAIM DEED TO SAID PROPERTY, TO DISCONTINUE AND CEASE SAID WORK HEREUNDER, WHEREUPON SAID LESSORS SHALL BE ENTITLED TO RESUME POSSESSION OF SAID PREMISES AND REAL PROPERTY, FREE AND CLEAR OF ANY AND ALL CLAIMS HEREUNDER.

11. TIME IS OF THE ESSENCE OF THIS LEASE AND OF EACH AND ALL OF THE PAYMENTS TO BE MADE AS HEREIN PROVIDED AND OF EACH AND ALL OF THE TERMS, PROVISIONS AND CONDITIONS HEREOF, AND IN THE EVENT THAT LESSEE SHALL AT ANY TIME FAIL TO PERFORM OR CARRY OUT ANY OF THE TERMS, CONDITIONS AND AGREEMENTS HEREIN IMPOSED UPON LESSEE OR MAKE ANY OF THE PAYMENTS PROVIDED HEREIN TO BE MADE, THEN UPON THIRTY (30) DAYS WRITTEN NOTICE BY MAIL TO LESSEE OF ANY SUCH FAILURE OR DEFAULT THIS LEASE SHALL IMMEDIATELY CEASE, END AND TERMINATE AT THE OPTION OF LESSORS, AND ALL FURTHER RIGHTS OF LESSEE IN AND TO SAID PREMISES HEREUNDER SHALL AT ONCE AND IMMEDIATELY BECOME TERMINATED AND ALL PAYMENTS THERETOFORE MADE HEREUNDER SHALL BE RETAINED BY LESSORS AS THEIR PROPERTY AND LESSORS SHALL HAVE THE RIGHT TO IMMEDIATELY ENTER INTO AND UPON SAID PREMISES AND REMOVE ALL PERSONS THEREFROM, PROVIDED, HOWEVER, THAT IF LESSEE CURES SAID FAILURE OR DEFAULT WITHIN THIRTY (30) DAYS AFTER THE DATE OF MAILING NOTICE AS AFORESAID, THIS LEASE SHALL CONTINUE IN FULL FORCE AND EFFECT.

12. IT IS FURTHER AGREED THAT LESSEE WILL SEND OR CAUSE TO BE SENT TO LESSORS COPIES, OR A FULL ACCOUNT, OF THE MILL AND/OR SMELTER RECEIPTS WHERE THE ORES MINED HEREUNDER ARE MILLED OR SMELTERED.

13. IT IS AGREED THAT AS A PART OF THE CONSIDERATION OF THIS MINING LEASE AND OPTION AGREEMENT THAT LESSEE, OR HIS ASSIGNS, SHALL HAVE, AND IS HEREBY GIVEN, THE RIGHT AND OPTION OF PURCHASING AND ACQUIRING FROM LESSORS THE ABOVE DESCRIBED REAL PROPERTY AND PREMISES FOR THE TOTAL PURCHASE PRICE OF $30,000.00, PAYABLE AT ANY TIME DURING THE LIFE OF THIS LEASE AND AGREEMENT, IT BEING EXPRESSLY UNDERSTOOD AND AGREED THAT THE AFORESAID $1,000.00 PAYMENT AND ALL ROYALTY PAYMENTS MADE HEREUNDER SHALL BE CREDITED ON ACCOUNT OF SAID PURCHASE PRICE IN THE EVENT THAT LESSEE DESIRES TO EXERCISE THE RIGHT TO PURCHASE SAID REAL PROPERTY AND PREMISES, AND IT BEING FURTHER AGREED THAT UPON THE PAYMENT OF SAID SUM OF $30,000.00 AS AFORESAID TO LESSORS BY LESSEE, SAID LESSORS WILL EXECUTE AND DELIVER TO LESSEE, HIS HEIRS OR ASSIGNS, A GOOD AND SUFFICIENT DEED CONVEYING ALL OF THE SAID REAL PROPERTY AND PREMISES ABOVE DESCRIBED, FREE AND CLEAR OF ANY LIENS OR ENCUMBRANCES THEREON.

14. IT IS AGREED THAT THIS LEASE MAY BE ASSIGNED BY THE PARTIES HERETO AND THAT ALL OF THE TERMS, CONDITIONS, CONVENANTS AND AGREEMENTS HEREIN CONTAINED ARE BINDING UPON AND ENURE TO THE BENEFIT OF THE PARTIES HERETO, AND THEIR RESPECTIVE HEIRS, PERSONAL REPRESENTATIVES AND ASSIGNS.

DATED AND EXECUTED ON THE DAY AND YEAR FIRST ABOVE WRITTEN.

GROVER C. BRUCE

EVELYN BRUCE

LESSORS

CHESTER W. DECKER

LESSEE

STATE OF CALIFORNIA)
) ss.
COUNTY OF CALAVERAS)

On this 13th day of July, 1954, before me, the undersigned Notary Public in and for the said County and State, residing therein, duly commissioned and sworn, personally appeared GROVER C. BRUCE AND EVELYN BRUCE, his wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me that they executed the same.

WITNESS MY HAND AND OFFICIAL SEAL on the date in this certificate first above written.

Virgil M Airola
Notary Public in and for the
County and State aforesaid.

STATE OF CALIFORNIA)
) ss.
COUNTY OF CALAVERAS)

On this 13th day of July, 1954, before me, the undersigned Notary Public in and for the said County and State, residing therein, duly commissioned and sworn, personally appeared CHESTER W. DECKER, known to me to be the person described in and whose name is subscribed to the within instrument, and he acknowledged to me that he executed the same.

WITNESS MY HAND AND OFFICIAL SEAL on the date in this certificate first above written.

Virgil M. Airola
Notary Public in and for the
County and State aforesaid.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9-25	Chapman	400
9-25	Martin	400
9/30	Holloway	2430
	Lamb	
	Williams	
9/27	Johnson	110
30	Mittendorf	100
		220

SEP 30 1957

Mr. Chester W. Decker, President
Moore Creek Mining Company
P. O. Box 783
Pioneer, California

Re: Docket No. DMEA 4766 - Tungsten
Moore Creek Mine
Calaveras County, California

Dear Mr. Decker:

Your application for exploration assistance and other data available to us in Washington concerning the referenced property have been reviewed.

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

Careful study of all our information, although noting the occurrence of tungsten mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. Under these conditions we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman/dlm 9-25-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

September 25, 1957

OFFICIAL FILE COPY

Date	Surname	Code
9-25	Chapman	400
9-25	Martin	400
		140

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Denial of the subject application for exploration assistance in the amount of $12,176.00
Docket No. DMEA - 4766
Moore Creek Mining Company
Moore Creek Mine
Calaveras County, California

The above-noted property was the subject of a request for exploration assistance on May 18, 1954. The property was examined by examining engineers of the Field Team on July 29, 1954, and denial of the application was recommended, but by a letter dated August 20, 1954, the Applicant requested withdrawal of the application.

Denial of the subject application is recommended by this Division based on the following information.

The Applicant, the Moore Creek Mining Company, requested exploration assistance in the amount of $12,176.00, for a tunnel and long hole drilling. A field examination of the property was made on July 25, 1957, by B. H. Sheahan, Bureau of Mines, and H. K. Stager, Geological Survey, accompanied by Mr. Don E. Bradley, mine superintendent.

Applicant: Moore Creek Mining Company
Mr. Chester W. Decker, President
P. O. Box 783
Pioneer, California

Property Ownership: The application requests work on the White Horse lode mining claim, recorded in book 19, page 278, at San Andreas, California. The claim is in T. 7 N., R. 16 E, M.D.B. M. Calaveras County, California. By a lease and option agreement the White Horse and Bay Horse claims owned by Grover C. Bruce and Evelyn Bruce, were leased to Chester W. Decker on July 13, 1954, for 5 years. A renewal is being negotiated.

Geology: The property is in an area of high relief on the west slope of the Sierra Nevada range. The rocks exposed are chiefly tactite and schist that are the remnants of a roof pendant about a mile long and 1,000 feet wide, bounded on all sides by the granitic rocks of the Sierra Nevada batholith.

The tactite occurs as lenses and as thin beds near and along the west edge of the pendant. Some fine grained limestone is found underground, but does not appear on surface. Foliation and bedding in the metamorphic rocks strike north and are

vertical or dip steeply west. Numerous minor faults cut the metamorphic rocks, but there is no evidence of primary ore control by these faults.

The ore deposits consist of small lenses of tungsten, molybdenum and copper-rich material in garnet-epidote tactite along and near the contact zones. The ore minerals are scheelite, molybdenite, chalcopyrite and powellite.

Development: The property is developed by a 60 foot, and a 145 foot adit. Total footage of underground workings is about 350 feet. Two shallow cuts have been excavated and overburden has been removed along the tactite zone between the portals of the two adits.

Equipment: The following facilities and equipment are owned by the Applicant and are in fair condition.

1 - 50 ton per day concentrator
1 - Air compresser (365 cfm)
1 - Mucking machine
2 - One ton cars
1 - Ton - 16# rail
3 - Pneumatic rock drills with steel and bits
2 - Tractors (D-4 and D-6)
2 - 1½ ton trucks
6 - Cabins to accommodate 12 men.

Ore Values & Tonnage: The ore occurs in lenses 1 to 10 feet wide, 10 to 40 feet long and has been mined 10 to 15 feet down a vertical dip. The grade estimated from samples and mill concentrates, averages about 0.20 percent WO_3, 0.05 percent Mo, and 0.2 percent Cu.

The following samples indicate ore values:

Sample No.	Length feet	Percent WO_3	Mo.	Cu	Description
1	15.0	0.01	0.01	0.65	Upper adit, tactite at portal
2	Grab	0.11	0.03	0.35	Upper adit, grab of stockpile
S-600	4.0	0.01	0.01	0.02	Lower adit, pod.
S-601	5.0	0.01	0.01	0.01	Lower adit, pod
S-602	7.0	0.01	0.01	0.18	Lower adit, pod
S-603	6.0	0.01	0.01	0.02	lower adit, pod
S-604	4.0	0.17	0.07	0.34	Lower adit, pod, scheelite with molybdenite
S-605	5.0	0.01	0.03	0.03	Lower adit, tactite and schist
S-606	3.0	0.01	0.02	0.33	Lower adit, pod, scheelite in tactite
S-607	5.0	0.01	0.01	0.03	Lower adit, pod, scheelite in tactite
S-608	6.0	0.21	0.05	0.03	Lower adit, pod, scheelite in tactite

There are no measured or indicated ore reserves. By careful mining and sorting it is inferred that several thousand tons could be produced averaging 0.20 percent WO_3.

Proposed Work:

The proposed work would consist of 200 feet of tunnel and 1,800 feet of long hole drilling at an estimated cost of $12,176.00

Comments and Conclusions:

The Field Team concludes that the deposit consists of small tungsten, molybdenum and copper bearing lenses in tactite. The concentrations of ore grade material are small, of marginal grade and erratically distributed. There is no geologic evidence on which to base any probability of finding significant ore bodies of a minable grade. The Field Team recommends denial of the application.

The Commodity Divisions of the Geological Survey, and the Bureau of Mines concur in the conclusions and recommendations of the Field Team.

W. S. Martin, Director
Division of Iron and Ferro-Alloys

OFFICIAL FILE COPY DMEA RECEIVED SEP 24 1957		
DATE	INITIALS	CODE
4/24	C	220
		400

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

Date September 24, 1957

DMEA Docket No. 4766
DMEA Contract No.
Commodity Tungsten
Name of applicant Moore Creek Mining Co.
Name of property Moore Creek Mine
Location of property Calaveras County, Calif.
Estimated cost of project

Memorandum

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

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

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

1. Date of subject document: 8/27/57 2. Date received by reviewer: 8/20/57

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 meeting 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 [X]
   d. Agree with Field Team [X]
      i. Consult with Mr. _____ at _____ ASC 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 with the Field Team recommendation that the application for Government assistance be denied.

R. W. Holliday

R. W. Holliday

FILE COPY
DMEA
SEP 13 1957
CODE
220
400
9-13 C
9/13 WSM

IN REPLY REFER TO:

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

September 12, 1957
Re: DMEA 4766
Moore Creek Mining Company
Moore Creek Mine
Calaveras County, California
$12,176.00 - Tungsten

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in exploring by drifting and long hole drilling a tactite zone from which, according to the application, 1000 tons of material has been mined and in which between 8,000 and 10,000 tons of 0.50% WO_3 material remains.

The property was the subject of an application (DMEA 3362) in 1954, denial of which was recommended by the Field Team, but the application was withdrawn before the Operating Committee acted.

The examiners found conditions to be very different from those outlined by the applicant. The concentrations of ore grade material are small, of marginal grade, and erratically distributed. The cost of finding and mining the concentrations exceeds their value as evidenced by the results obtained.

Three scheelite, molybdenite and chalcopyrite-bearing tactite lenses are exposed in the lower adit. Samples of the lenses show a maximum of 0.21% WO_3, 0.05% Mo and 0.03% Cu across 6.0 feet. The lense is exposed for 27 feet and, as inferred, the length probably does not exceed 50 feet.

The opinions of the examiners are well sustained by their sampling and the recommendation of denial of the application is most appropriate.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 9 1957

DATE	INITIALS	CODE
9/9	Q	220
		130
9/13	Q	220
9/13	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

September 5, 1957

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4766 (Tungsten)
Moore Creek Mining Company
Moore Creek Mine
Calaveras County, California
(Your letter, June 28, 1957)

Enclosed are three copies of a report by B. H. Sheahan, Bureau of Mines, and H. K. Stager, Geological Survey, on subject property.

Roscoe Smith and I concur in the recommendation that the application for DMEA exploration aid be denied.

S. Ricker

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
9-13-57
(date)

ON SITE EXAM

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 9 1957

DATE	INITIALS	CODE
		130
		220

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4766 (Tungsten)
Moore Creek Mining Company
White Horse claim
Calaveras County, California

by

B. H. Sheahan
U. S. Bureau of Mines

H. K. Stager
U. S. Geological Survey

August 27, 1957

Reviewed by
DMEA OPERATING COMMITTEE
9-13-57
(date)

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Location, Accessibility, and Local Facilities	2
History and Production	3
Property and Ownership	4
Development	5
General Geology	6
Ore Deposits	7
Sampling	8
Ore Reserves	9

ILLUSTRATIONS

Figure 1 . . . . . Index map

2 . . . . . Geologic sketch map

INTRODUCTION

The Moore Creek Mining Company, P. O. Box 783 Pioneer, California, applied to the Defense Minerals Exploration Administration, docket DMEA-4766, for Government assistance in a $12,176 program to explore for tungsten on the White Horse claim, Calaveras County, California.

A field examination was requested by the Operating Committee and was made by B. H. Sheahan, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey, on July 25, 1957, accompanied by Mr. Don E. Bradley, mine superintendent.

A careful inspection was made of the mineralized exposures using an ultraviolet light. A sketch map was made of the surface and underground exposures and nine samples were taken of the mineralized material.

The property was previously examined on July 29, 1954, under application DMEA-3362, and denial of the application was recommended by the Field Team. However, the application was withdrawn before action could be taken by the Operating Committee. The operators have since built a mill and done additional surface and underground work.

CONCLUSIONS AND RECOMMENDATIONS

The deposit on the White Horse claim consists of small tungsten-, molybdenum-, and copper-bearing tactite lenses in diorite. The concentrations of ore-grade material are small, of marginal grade, and erratically distributed. The cost of finding the ore bodies exceeds the value of the metals contained in them, and there is no geologic evidence upon which to base any probability of finding deposits of higher grade or larger size elsewhere on the claim.

It is recommended that the application for Government assistance be denied.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The property is on the west slope of the Sierra Nevada at an altitude of 4,200 feet in the S-1/2 of sec. 7, T. 7 N., R. 16 E., M.D.B.&M. in the Stanislaus National Forest, Calaveras County, California (fig. 1).

To reach the mine by automobile from Jackson, California, the nearest source of labor and supplies, travel easterly 31 miles on paved State Highway 88, turn right on dirt road at Lumberyard Ranger Station and travel 6.7 miles southerly, turn left and travel 3.3 miles easterly on a Pacific Gas and Electric Company graded

road, turn right on dirt road 0.5 mile to the mine which is on the south side of Moore Creek and approximately 0.5 mile south of Garnet Hill. The access road is occasionally closed by snow.

Water for domestic and mining needs is available from Moore Creek and the Mokelumne River. There is a fair stand of pine, fir, and cedar on the property. Mail is received at Pioneer, which is 26.5 miles west of the mine.

HISTORY AND PRODUCTION

Grover C. Bruce and C. N. Smith of Murphys, California located the property in 1941. L. A. Smith of San Francisco leased the property for a short period in 1942, but very little work was done. The Moore Creek Mining Company leased the property and applied for exploration assistance under docket DMEA-3362 early in 1954. The company withdrew the application before the Operating Committee could act on the Field Team's recommendation for denial.

The Moore Creek Mining Company was incorporated July 19, 1954. Capital was obtained from the stockholders for development work and for the construction of a 50-ton-per-day concentrating plant.

Production from the property totals 150 pounds of scheelite concentrates that were sold and 4,700 pounds of scheelite concentrates

now stored at the mill. The superintendent estimated that these concentrates averaged 50 percent WO_3 and that they were recovered from about 1,000 tons of low-grade ore. Company expenditures are said to total about $160,000.

PROPERTY AND OWNERSHIP

The property consists of two unpatented lode mining claims. A mining lease and option agreement, dated July 13, 1954, between Grover C. and Evelyn Bruce, the owners, and Chester W. Decker lists the White Horse quartz mining claim and the Bay Horse quartz mining claim. Both are recorded in book 19, pages 278 and 279 in the Calaveras County Courthouse at San Andreas, California.

Only the White Horse claim is included in the application. The lease-option agreement was for a five-year period and it is now in the process of renewal.

The Moore Creek Mining Company is a California corporation with main offices at 2033 Country Club Boulevard, Stockton, California. Officers of the corporation are:

Chester W. Decker, president

Alfred B. Corda, vice president

Eileen Stevens, secretary-treasurer

DEVELOPMENT

The property is developed by a 60-foot and a 145-foot adit (fig. 2). Total footage of underground workings is about 350 feet. Two shallow open cuts have been excavated and overburden has been removed along an irregular tactite zone between the portals of the two adits. All workings are accessible and the ground stands well without timber.

The following surface facilities and equipment are owned by the applicant and are in fair condition:

(Mill) 50-ton-per-day gravity concentrator, 50-ton primary bin, jaw crusher (size 10 inch by 20 inch), conveyor belt and feeder, ball mill (4 feet by 4 feet), 3 concentration tables, one Diesel electric power unit (225 h.p.).

(Mine) air compressor (365cfm.), mucking machine, 2 one-ton cars, 1 ton 16-lb./yard rail, 3 pneumatic rock drills with steel and bits, two tractors (D-4 and D-6), two 1-1/2 ton trucks.

(Housing facilities) 6 cabins that will accommodate 12 workmen.

GENERAL GEOLOGY

The property is in an area of high relief on the west side of the Sierra Nevada. The rocks exposed in the vicinity of the mine are chiefly tactite and schist that are the remnants of a roof pendant about a mile long and 1,000 feet wide, bounded on all sides by granitic rocks of the Sierra Nevada batholith. The mine area is at the north end of this pendant.

The granodiorite, of Cretaceous age, is chiefly light gray and medium-grained. Near the contact with metamorphic rocks the percentage of dark minerals has been greatly increased by the assimilation of mafic material, forming a zone of dark, fine-grained, diorite or migmatite.

The metamorphic rocks that comprise the pendant are chiefly schist and garnet-epidote tactite. The schist is intimately mixed with dioritic material that has been injected lit-par-lit and as dikes. The tactite occurs as lenses and as thin beds near and along the west edge of the pendant (fig. 2). Some fine-grained gray limestone is exposed in the underground workings but does not crop out at the surface. Foliation and bedding in the metamorphic rocks strike north and are vertical or dip steeply west.

Numerous minor faults of random orientation and dip cut the metamorphic rocks and a prominent fault that strikes N 55° E and dips 75° SE is exposed near the center of the mine area on the surface and in the underground workings where it contains about two inches of gouge (fig. 2). No evidence of primary ore control by any of the faults is indicated in surface or underground exposures.

ORE DEPOSITS

The deposit consists of small lenses of tungsten-, molybdenum-, and copper-rich material in garnet-epidote tactite along and near the contact of metamorphic rocks and granodiorite.

The ore minerals are scheelite, molybdenite, chalcopyrite, and powellite. The gangue minerals are calcite, quartz, garnet, epidote, and pyrite. Most of the scheelite crystals are one-eighth to one-quarter inch in diameter disseminated in the tactite, but some crystals as much as 1 inch in cross section are present. The molybdenite occurs chiefly in flakes disseminated in the tactite and rarely as masses of crystals several inches in diameter. Disseminated crystals of powellite and zoned crystals of powellite and scheelite occur in and near the concentrations of molybdenite. Chalcopyrite is sparsely disseminated throughout the tactite but is most abundant in the scheelite- and molybdenite-rich zones.

The ore lenses are 1 to 10 feet wide, 10 to 40 feet long, and have been mined for 10 to 15 feet down a vertical dip. The grade, estimated from samples and mill concentrates, averages about 0.2 percent WO_3, 0.05 percent Mo, and 0.2 percent Cu. All of the production from the property has been mined from the three ore lenses exposed in the lower adit and from the open pit at the portal of the upper adit (fig. 2).

SAMPLING

The following samples represent the grade of the best scheelite-bearing tactite exposed on the property. Sample locations are shown on figure 2.

Sample No.	Length, feet	Percent WO_3	Percent Mo	Percent Cu	Description
No. 1	15.0	<0.01	0.01	0.65	Upper adit, tactite at portal.
No. 2	grab	0.11	0.03	0.35	Upper adit, grab of stockpile.
S-600	4.0	<0.01	<0.01	0.02	Lower adit, pod of scheelite-bearing tactite.
S-601	5.0	0.01	<0.01	0.01	" " " " " "
S-602	7.0	<0.01	<0.01	0.18	" " " " " "
S-603	6.0	0.01	<0.01	0.02	" " " " " "
S-604	4.0	0.17	0.07	0.34	Lower adit, pod of scheelite-bearing tactite with molybdenite.
S-605	5.0	0.01	0.03	0.03	Lower adit, tactite and schist.

Sample No.	Length, feet	Percent WO_3	Mo	Cu	Description
S-606	3.0	0.01	0.02	0.33	Lower adit, pod of scheelite-bearing tactite.
S-607	5.0	<0.01	0.01	0.03	" " " " "
S-608	6.0	0.21	0.05	0.03	" " " " "

ORE RESERVES

There are no measured or indicated ore reserves exposed on the White Horse claim. By careful mining and sorting several hundred tons of marginal ore (0.2 percent WO_3, 0.05 percent Mo, and 0.2 percent Cu) could be mined from the tactite body exposed in the lower adit. Several thousand tons of this grade material, concentrated in small pods and lenses throughout the tactite body on the White Horse claim, is inferred.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6-27	Holt	400
6-27	Chapman	400
6/28	GCS	130
		~~130~~
		~~130~~
6/28	Johnson	110
	Whittenberg	100
6/28	C	225
		400

JUN 28 1957

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

Re: Docket No. DMEA 4766 - Tungsten
Moore Creek Mining Company
Moore Creek mine
Calaveras County, California

Dear Mr. Ricker:

The above-docketed application for exploration assistance is being referred to your office for review and a field examination of the property if necessary.

Copies of memoranda dated June 20 and 24, 1957, by R. W. Holliday, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the application, are enclosed. Also enclosed is an extra copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

SPHOLT:foc 6-27-57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

APPROVED:

P. F. Yopes
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
6-27	Holt	400
6-27	Chapman	400
6/28	Selfridge	130
6/28	Yager	130
6/28	Nelson	130
"	Jones	110
"	Stillendorf	100
		225
		400

JUN 28 1957

Moore Creek Mining Company
P. O. Box 78
Pioneer, California

Re: Docket No. DMEA 4766 - Tungsten
Moore Creek mine
Calaveras County, California

Gentlemen:

The above-docketed application for exploration assistance for tungsten ores has been reviewed by the Division of Iron and Ferro-Alloys of the Defense Minerals Exploration Administration and is being referred to Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for review and a possible field examination of the property.

If a field examination is considered necessary, the Field Team will get in touch with you.

Sincerely yours,

O. O. Mittenzer
(by ...)
Administrator

SPHOLT:foc
6-27-57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

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DMEA
RECEIVED JUN 1957

DATE	INITIALS	CODE
6/25	C	220
6/25	RC	400

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

IN REPLY REFER TO:

June 24, 1957
Re: DMEA 4766
Moore Creek Mining Company
Moore Creek Mine
Calaveras County, California
$12,176 - Tungsten

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring by drifting and long hole drilling a tactite zone from which 1000 tons of ore has been mined and which exploration indicates, according to the applicant, contains 8,000 to 10,000 tons of 0.50% WO_3 material. A modern 100-ton mill is available to the applicant.

The proposed work would continue a drift in the center of the zone and by long hole drilling explore the ground for a distance of about 60 feet on each side of the drift and 50 feet above it.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 21 1957

DATE	INITIALS	CODE
6/21	JWG	220
		400

Date June 20, 1957

DMA Docket No. ~~3362~~ 4766
DMA Contract No.
Commodity Tungsten
Name of applicant Moore Creek Mining Co.
Name of property Moore Creek Mine
Location of property Calaveras Co., Calif.
Estimated cost of project

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

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

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

1. Date of Application: 6-17-57 2. Date received by Bureau: 6-20-57

3. Has any of the property been to revisions: Yes [ ] No [X]

4. Has any mining application been made to revisions: Yes [ ] No [X]

5. Is some ore available for pilot production: Yes [ ] No [X]

6. Other development has been done to revisions: Yes [ ] No [X]

7. Explain the items marked yes above:

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

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

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

Previous application was withdrawn but applicant desires reconsideration based on additional evidence. I recommend referral to the Field Team for appropriate action.

R. W. Holliday

R. W. Holliday

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

June 21, 1957

Mr. Chester W. Decker, President,
Moore Creek Mining Company,
P.O. Box 73,
Pioneer, California.

Subject: DMEA 4766

Dear Mr. Decker:

Your application for exploration assistance, dated June 12, 1957, submitted to our office at Reno, Nevada, has been assigned Docket Number DMEA 4766 and referred to the Iron and Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region II

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4766
(Tungsten)

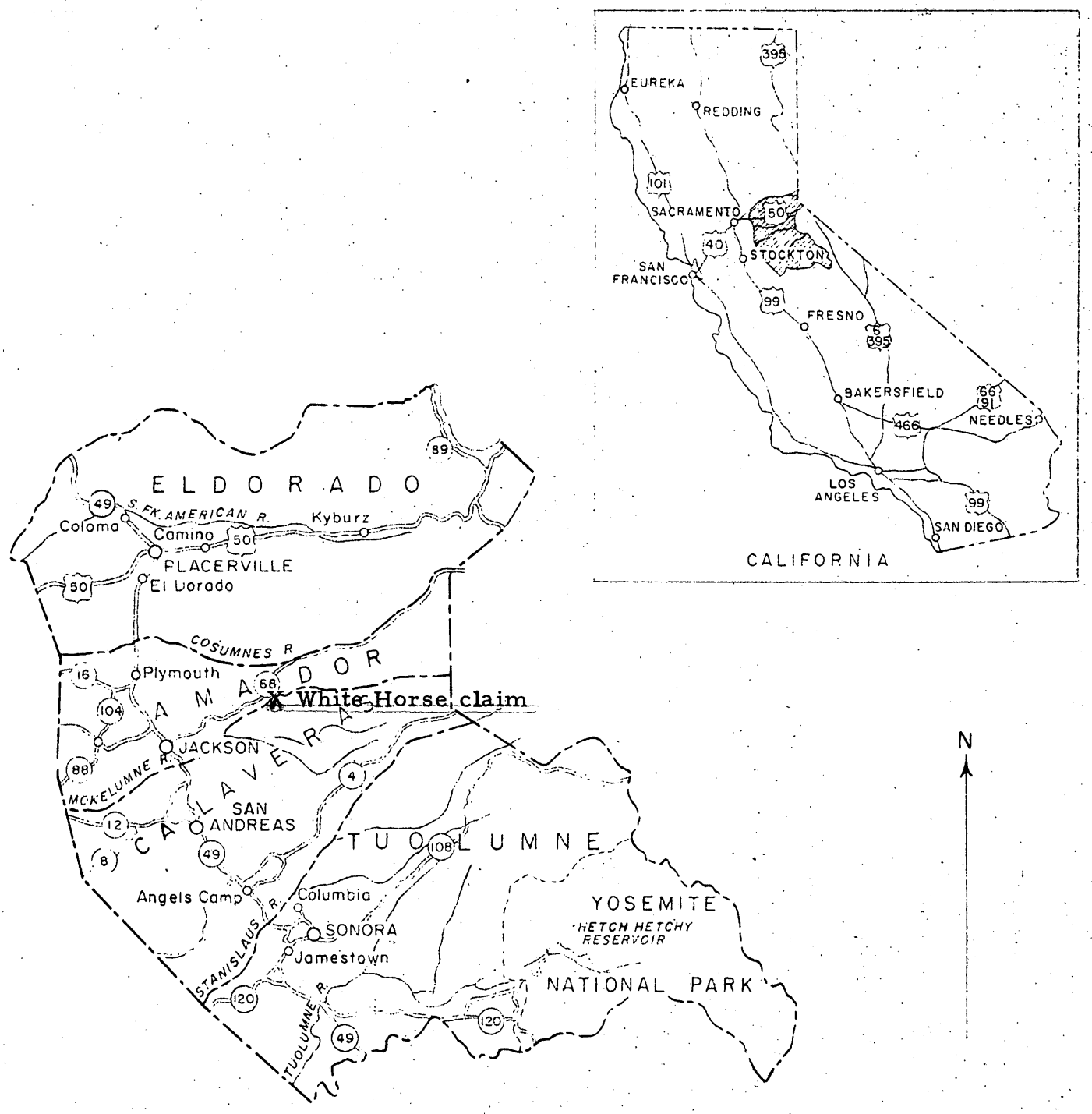

Figure 1. INDEX MAP OF ELDORADO, AMADOR, CALAVERAS, AND TUOLUMNE COUNTIES, CALIFORNIA

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DATE	INITIALS	CODE

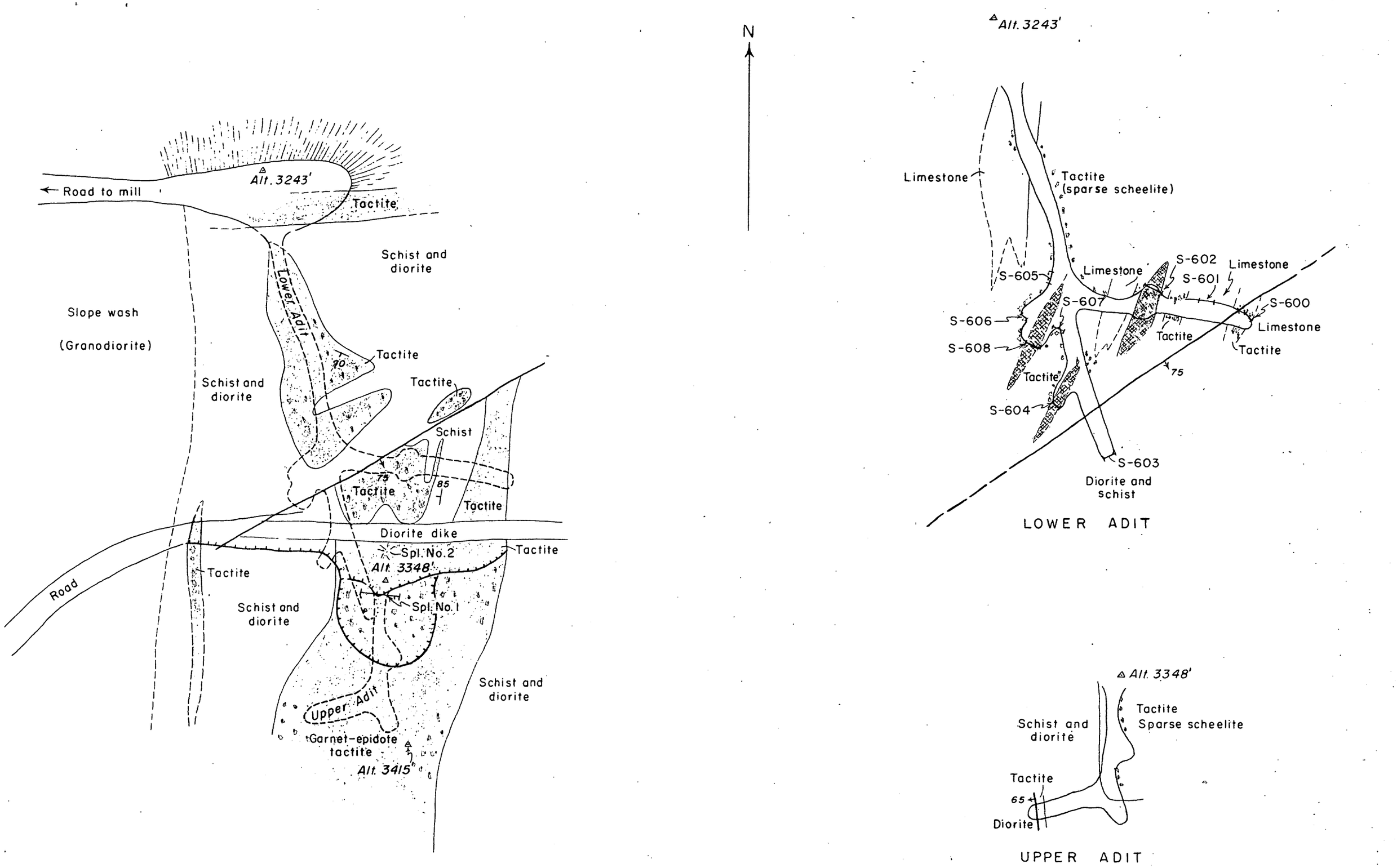

Figure 2. GEOLOGIC SKETCH MAP OF THE MOORE CREEK TUNGSTEN MINE, CALAVERAS COUNTY, CALIFORNIA

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