DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4483

Application (Denied ✓
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
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
(3) Envelope for maps

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
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

Right Side

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

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9775

DMEA

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

RECEIVED
OCT - 1 1956

1605 Evans Avenue
Reno, Nevada

Sept. 27, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Tungsten)
Arthur E. Hougham
Mark II Mining Company Claims
Tulare 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 file.

S. Ricker

Encls.

BUREAU OF MINES
WASHINGTON, D. C.
OCT 1 10 02 AM '56

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

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Reno, Nevada

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S. Ricker

Encls.

-103
April 1953)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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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. 4483
Metal or Mineral Tungsten
Date Received 10-1-56
Estimated Cost Not Given
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: Mark II Mining Co., Inc., 222 S. W. Oak Street, Portland 4, Oregon.

(*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. ~~Arthur E. Loughan Box 157 Keeville, California President~~

(*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.

~~Aber Altman 222 SW Oak, Portland, Oregon Secretary~~

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 ~~Mining Claims Cook Forest~~

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(*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?

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated September 20th, 1956

Mark II Mining Company, Inc.

(Applicant)

By Gilbert E. Hanighan 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

1 (b) Corporation--Organized and incorporated in the State of Oregon.

(c) Arthur E. Hougham Box 157, Kernville, California------President.
Abe Altman 222 SW Oak Street, Portland, Oregon--Secretary-Treasurer

(d) Corporation

2 (a) Four unpatented mining claims located in the Sequoia National Forest----------See map attatched.

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OCT - 1 1956

(b) North Meadow Mines.

(c) Owner

(d) ----------

(e) None

(f) North Meadow # 1, Book 1525 Page 343
North Meadow # 2, Book 1525 Page 341
Meta # 1, Book 1525 Page ~~335~~ 337
Meta # 2, Book 1525 Page 339
Filed in the Official Records at Visalia, Tulare County, California.

4 Physical Description

(a) Since application DMA-1844X-1951 and DMEA-2673-1951 were made by Pacific Star Mines Inc., in 1951, the following development work and improvements were made:

Six miles of access road were purchased from Gill Embree, two and one half miles were bulldozed to the property from Embree's road, Three spur roads to deposits Meta # 1, Meta # 2, North Meadwo # 1, and North Meadow # 2. Approximately one mile of a two " pipe line from North Meadow to property, one 1200 gallon storage tank installed, one forty ton mill consisting of rolls and jaw crusher at vibrating Dunham tables, one recovery building 20 by 50 feet and various ore bunkers.
Two open pit and stripping operations, one 100' drift and 30' winze. Accessible with four wheel drive vehicle. Roads in condition for travel except during months of December, January, February and March. Applicant is owner of all operations on the property.

(b) Approximately $5000.00 in sales and approximately 1000 tons of ore blocked out and stock piled averaging in excess of 2 %.

(c) Report from Sawyer--------See report and map attatched.

(d) Access road with four wheel drive vehicle, 30 miles to shipping and supplies and resident points. All except eight miles of the access road is oiled state highway open all year round.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION II
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RENO, NEVADA

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4 (e) Manpower------Fair - Mining center of Kern County.
Supplies -- Available within twenty four hours by car.
Equipment -- Available within twenty four hours by car.
Water - Plentiful
Power -----Generate own power

RECEIVED
OCT - 1 1956

5 (a) Scheelite

(b) Described work consists of three core drill holes on each deposit at different angles, angled to cross out the ore bodies and each successive drill angle and depth.

(c) The work will start immediately and be completed with four months from the date of an exploration project contract.

(d) New Corporation, but officers have following experience: President--Four years actual mining experience, supervised and operated core drill for Prosperity Mine, Kern County, California, in 1955. Will supervise operation.

Consulting engineers and geologists will be called in for conference and recommendations at regular periods.

6 (a) Estimate of costs: Independent contracts--$7.50 per foot. Contractor furnishing all rigs, labor, tools, supplies and all needs. This includes all surface insurance, labor, Taxes, etc.

(b) Supervision----------one @ $125.00 per week
One Consulting geologist @ $100.00 per day
One Cook @ $ 12.50 per day

(c) Butane--------$50.00 per month average
Gasoline-----$150.00 per month average
Food for commissary --$80.00 per week average

(d) Four wheel drive transportation truck and four wheel drive heavy duty truck to be furnished by operator, one air compressor to be leased on a rental basis approximately $250.00 per month.

(e) Truck Maintenance----$50.00 per month average

(f) None

(g) Accounting fees $50.00 per month, insurance and taxes $100.00 per month average.

(h) Travel expense $200.00 per month average

7 (a) Yes

(b) Money and use of Equipment.

THEO. K. SAWYER
GEOLOGIST AND PETROLEUM ENGINEER
TELEPHONE FAIRVIEW 7-8247
P. O. BOX 194, STA. A
BAKERSFIELD, CALIFORNIA

September 6, 1956

Mark II Mining Company,
Kernville, Calif.

Gentlemen:

On Sept. 3, I made a brief examination of your properties in the Brush Creek mining district, Tulare County, Calif known as North Meadow #1, North Meadow #2, Meta #1 and Meta #2. The purpose of this examination was to determine the adviseability of undertaking a core drilling program in order to further evaluate the extent of the known ore body, and to determine the best method of developing same.

The main ore body consists of a ledge of Tactite averaging approximately 30' in thickness, and standing in an almost vertical attitude with granite on the foot-wall side. The hanging-wall side in most instances is marked by a well defined fault, with various rocks including altered limestones, quartz, etc on the other side. The ore body is exposed on the surface of the ground in many places and can readily be traced across the property in a line shown on the attached map as a heavy dashed line. Surface workings have opened the ore body in several locations as shown on the map, and underground workings have penetrated the body through its entire width. The tunnel passed through the fault and into the country rock on the other side. Some values were even present beyond the fault. A winze was sunk about 20' down in the main ore body and good values persisted for its entire depth. Three samples of selected milling rock were taken on this trip and designated as North Meadow #1, which came from the surface workings on the North Meadow #1 claim. #2 Tall Can was obtained from the surface workings on Meta #1 claim, where there is approximately one hundred tons of ore stockpiled. #2 Small Can was taken from the winze on the North Meadow #2 claim. The assays on these three samples are herewith attached. Other previous sampling has indicated that although the main ore body is quite consistent in thickness and extent, the values vary considerably, from very high grade to lean.

Taking into consideration the size and extent of the main ore body and its attitude with relation to the country rocks, the only method of properly evaluating this deposit would be by careful core drilling before trying to develop the mine. This program I definitely recommend.

Yours very truly,

Theo. K. Sawyer

Theo. K. Sawyer
P.E. Reg. #613

TKS/s

HORNKOHL LABORATORIES

Telephone 8-8567 — ANALYSES OF OIL, WATERS, SOILS, OIL CORES — P. O. Box 1673

714 TRUXTUN AVENUE
BAKERSFIELD, CALIFORNIA

September 6, 1956

Laboratory No. 97235 - 97237

Sample Ore *Marked* As Shown Below

Received September 4, 1956

Submitted by Mark II Mining Company
Kern ville, California

* * * * * * * *

TUNGSTEN ASSAY

SAMPLE MARKED:		PERCENTAGE
No. 1 North Meadow	as WO_3	17.28
No. 2-Tall Can	as WO_3	9.30
No. 2- Small C n	as WO_3	13.92

Respectfully submitted,

HORNKOHL LABORATORIES

Frank Hornkohl

wf

HORNKOHL LABORATORIES

Telephone 8-8567 ANALYSES OF OIL, WATERS, SOILS, OIL CORES P. O. Box 1673

714 TRUXTUN AVENUE
BAKERSFIELD, CALIFORNIA

September 4, 1956

Laboratory No. 97234

Sample Tungsten Ore *Marked*

Received September 4, 1956

Submitted by Mark II Mining Company
Kernville, California

* * * * * * * *

SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSIS

MAJOR CONSTITUENTS:		
Tungstin Tungsten	---	Over 40%
Calcium	---	Over 10%
INTERMEDIATE CONSTITUENTS:		
Silicon	---	1-10%
MINOR CONSTITUENTS:		
Iron	---	0.5-1.0%
Magnesium	---	0.1-0.5%
Aluminum	---	0.1-0.5%
Molybdium	---	0.05-0.1%
Bismuth	---	0.05-0.1%
Manganese	---	0.05-0.1%
Copper	---	0.001-0.005%
Silver	---	0.001-0.005%
Titanium	---	0.001-0.005%
Lead	---	0.001-0.005%
Vanadium	---	0.0005-0.001%
Chromium	---	Trace

Respectfully submitted,

HORNKOHL LABORATORIES

Frank Hornkohl

bk

This map to accompany memorandum to Administrator dated September 17, 1957.

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

OMC
Martin
Selfridge
Johnson 3/9

Rewritten in Off.
Asst. Secy MR
3/18/59

MAR 23 1959

Dear Senator Morse:

This is in response to your letter of February 26, 1959, asking that the data which supported the denial of an exploration loan to the Mark II Mining Company (Docket No. DMEA 4453 - Tungsten) be supplied to your office for transmittal to the people concerned, if consistent with the law and applicable regulations.

The Department has always followed the policy of making these files available for inspection by individual Members of Congress for official consideration and to appropriate Committees of Congress, with the understanding that the information contained therein is of a privileged character and is not for public dissemination. We should be glad to make Docket No. 4453 available to you upon this basis if you so desire. This would not, of course, fully serve the purpose stated in your letter.

At this time I am enclosing for your information a copy of the letter of denial which was sent by the Administration to the Mark II Mining Company on September 27, 1957, and a copy of my letter of March 14, 1958, to Mr. James V. Collins, Attorney for the Company. Subsequent to an appeal by the applicant, my letter reaffirmed the basis for the denial, but only after the case had been thoroughly reviewed, both in Washington and in the field.

I should like further to define the policies that were followed with regard to DMEA applications. The Department did not issue to the public any information which would reveal the identity of individual applicants when applications for loans were received. When loans were granted, the Department issued press releases giving the name of the operator, the minerals involved, the county and state in which the project was located, the total amount involved, and the extent of Government participation.

PRS 8309

However, no information was disseminated publicly when ever leases were denied. The applicant alone received notification in this event. The Department rigidly followed this policy because a public statement to the effect that an application for a lease had not been approved would very likely result in an inference that the property was of little worth, whereas in practice the rejection of an application did not preclude resubmission for the same property. Applications were frequently rejected for reasons other than the improbability of making a significant discovery, such as lack of sufficient information, disagreement as to method of exploration, an applicant's lack of funds to carry out the work, and for other reasons. This policy was followed purposely to protect the applicant's interest.

In these circumstances, I should like to point out that information concerning the application by the Mark II Mining Company for an exploration lease, or information concerning the subsequent denial of the application, could not have reached the public as the result of any information released by this Department.

It is my hope that this explanation will serve to clarify the situation with regard to this particular application. However, please let me know if further information concerning the matter is needed.

Sincerely yours,

(sgd) Royce A. Hardy

Assistant Secretary of the Interior

Hon. Wayne Morse
United States Senate
Washington 25, D. C.

Enclosures

WSMartin:FEJohnson:LEimhoff:hmc
3/9/59 rewrite 3/18/59
Copy to: Secretary's files
Secretary's reading file
DGCO DL MR (2)
MDM (2)
Code 400 Ft. Reg. 2
R. W. Holliday, USBM - T. H. Killingsard, USGS

PRS 8309

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

Dear Senator Morse:

Your letter of February 26, 1959, refers to our earlier related correspondence, and requests that we forward to you for transmittal to the Mark II Mining Company (Docket No. DMEA 4483, Tungsten, Tulare County, California) the supporting factual data for our denial on September 27, 1957, of its application for exploration aid.

Information concerning the properties of applicants for exploration assistance which is gathered by the Government field examiners is considered confidential for Government use only. We believe that Government employees should not be in competition with private industry in evaluating the properties of applicants for their personal benefit; but should leave this service to be performed by private engineers and geologists.

We do not understand the applicant's reference to a finding of "insufficient mineralization" as the DMEA made no such finding. The random sampling performed by the DMEA field staff was to obtain support that tungsten mineralization occurred on the property and to indicate the possible extent and grade of the mineralization that might be expected to be found. However, the irregularity of the occurrence of mineralization and the discontinuity of the formations in which it occurred as well as other geological factors were all considered in reaching a determination as to the probability of making a significant discovery. In making this determination the Government must rely upon the judgment of its staff.

We regret that we cannot be more helpful to your constituent in this instance, but believe it would not be in the best interest of the Government to disclose data obtained solely

for the use of the DOA in determining whether or not the Government should participate in the cost of the exploration project on the applicant's property.

Sincerely yours,

Secretary of the Interior

Hon. Wayne Morse
United States Senate
Washington 25, D. C.

W:MARTIN:FL:JOHNSON:fbe
3-9-59
cc to: Code 400
Secretary's File
Secretary's Read File
MRS (2)
MR (2)
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R. W. Halliday, WRM
Y. M. Hildgund, USGS

FRS 5302

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O. M. E.
RECEIVED MAR 4 1959

DATE	INITIALS	CODE
3-4	C	220
3/4	WSM	400

PRS
MAR - 3 1959 8309

TO:	
OME	
REPLY TO BE PREPARED BY:	OME
FOR SIGNATURE OF:	MR
COPY OF LETTER FURNISHED	
SOL	
MDM	
SEND REPLY COPY TO ABOVE	

INTERIOR DEPARTMENT
RECEIVED
MAR 3 - 1959
OFFICE OF THE ASSISTANT SECRETARY FOR MINERAL RESOURCES
2/18-6

United States Senate
COMMITTEE ON
LABOR AND PUBLIC WELFARE

February 26, 1959

Honorable Royce A. Hardy
Assistant Secretary of the Interior
Washington 25, D. C.

PRS 7047

Dear Mr. Hardy:

Thank you for your letter of February 20, in which you commented with respect to Docket No. DMEA 4483 - Tungsten.

I appreciated very much the information you supplied on the subject of the termination of the DMEA program and the elimination of tungsten from the list of eligible minerals. However, a second question was presented in my letter of January 24 and if the information therein requested is available, I am sure that it would be most helpful to the people who wrote to me concerning case #4483.

The additional information I desire was discussed in paragraph two and three of my letter of January 24. More specifically, the correspondence in my file relative to case #4483 contains the following comments of an official of the Mark II Mining Company:

> "We must of necessity have to rely on the results obtained from the assaying of the random ore samples taken by the Regional Director and his assistants at the Mark II Mining Company's mine and to the findings of these qualified mining experts derived from their careful examination and inspection of the Mark II premises.
>
> "We are at present endeavoring to raise sufficent funds to finance further exploration and a core drilling program at the Mark II mine and the stigma of the turning down of a loan by a duly constituted Federal Agency because of an 'insufficient mineralization' claim is a definite and unwarwanted handicap. The justified reasoning of would-be investors now is 'why should I risk my hard-earned money in a venture which the Government considers to risky for its own funds appropriated for such purposes.
>
> "In the interest of our company and its many stockholders it is vital that the 'insufficient mineralization' stigma be

either cleared or proven to be a fact."

As I indicated in my letter of January 24, I do not know whether your agency is permitted to reveal the data which supported a finding of "insufficient mineralization" in this case. If such data is available and if it could, consistent with the law and applicable regulations, be forwarded to my office for transmittal to the people who have expressed concern over this matter, I think it might serve to resolve the problem.

At your earliest convenience may I have your comments on the subject matter discussed herein.

Sincerely yours,

Wayne Morse

Wayne Morse

WM/rc

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

E COPY
Surname:
OME

Negative
Selfridge
Johnson 3/9

Dear Senator Morse:

Your letter of February 26, 1959, refers to our earlier related correspondence, and requests that we forward to you for transmittal to the Mark II Mining Company (Docket No. DMEA 4483, Tungsten, Tulare County, California) the supporting factual data for our denial on September 27, 1957, of its application for exploration aid.

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We regret that we cannot be more helpful to your constituent in this instance, but believe it would not be in the best interest of the Government to disclose data obtained solely

COPY FOR THE SECRETARY'S OFFICE

for the use of the DMEA in determining whether or not the Government should participate in the cost of the exploration project on the applicant's property.

Sincerely yours,

Secretary of the Interior

Hon. Wayne Morse
United States Senate
Washington 25, D. C.

WSMARTIN:FEJOHNSON:foc
3-9-59
cc to: Code 400
Secretary's Files
Secretary's Read. File
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MR (2)
DL
DCCO
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

PRS 8309

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

OME
Mart'n
Selfridge
Johnson
Long
Dwyer
Appd. Sol. Off.
Rewritten = AS-MR

FEB 20 1959

Dear Senator Morse:

Because your letter of January 24, 1959, to Mr. Frank E. Johnson, Acting Director, Office of Minerals Exploration, concerns an application for a loan which was rejected by the Defense Minerals Exploration Administration more than a year ago, it has come to this office for reply. The application referred to was made in the name of the North Meadow Mines, Tulare County, California - Docket No. DMEA 4483 - Tungsten.

The authority of the Defense Minerals Exploration Administration to execute contracts terminated on June 30, 1958. Since that date no applications for loans under the criteria established by DMEA have been accepted. The DMEA program is being liquidated by the Office of Minerals Exploration, which is continuing the administration to termination of those DMEA contracts which were in effect on June 30.

A new program to provide financial assistance to private industry for exploration activities was initiated by Public Law 85-701, 85th Congress, approved August 21, 1958, (72 Stat. 700). This program is being administered by the Office of Minerals Exploration. While the program instituted by this law is similar to that conducted by the DMEA, it is more restrictive with respect to terms of loans, the eligibility of applicants, the repayment provisions, and the kinds of minerals eligible for exploration projects. The criteria governing the program are set forth in the attached reprint of the regulations as they appeared in the Federal Register on December 23, 1958, et seq. Your attention is respectfully directed to the omission of tungsten from the list of eligible minerals. This deletion was made at the instructions of the Committee on Appropriations of the House of Representatives in connection with our current fiscal year appropriation.

Subsequent to the rejection of the DMEA application of North Meadow Mines, Tulare County, California, over a year ago,

[redacted]

[redacted]

[redacted]

(sgd) Royce A. Hardy

Assistant Secretary of the Interior

[redacted]

[redacted]

[redacted]

[redacted]

WFSmith:FEJohnson:JGLobert:lmb

Copy to: Code 406
Secretary's Files
Secretary's Reading File
MDM
MR (2)
DL
FT. KEG. II
R. W. Holmby, USEAC
T. H. Kiliegaard, WGSE
DCCO

FEB 1967

FILE COPY
Surname:

OME

Martin
Selfridge
Johnson
Long
Dunger

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

Dear Senator Morse:

Because your letter of January 24, 1959, to Mr. Frank E. Johnson, Acting Director, Office of Minerals Exploration, concerns an exercise of judgment by DMEA that was appealed to the Secretary of the Interior slightly more than one year ago, it has come to this office for reply.

It is noted that, according to correspondence brought to your attention, an official of the Mark II Mining Co., Inc. (Docket No. DMEA 4483 - Tungsten, North Meadow Mines, Tulare County, California) expressed deep concern over the fact that OME had made a finding of "insufficient mineralization", leading you to believe that all the Company has is the OME assertion that insufficient mineralization is a fact. We do not understand how the matter could have been thus expressed to you.

What was actually stated in our letter of denial was that projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that would significantly improve the mineral supply position of the National Defense Program, and that careful study of all our information, although noting the occurrence of tungsten mineralization on the Company's property, indicated to us that the probability of disclosing significant ore reserves was not sufficiently promising to justify Government participation.

Ordinarily, the information contained in our examiners' reports is considered confidential for Government use only. However, since this case continues to come up from time to time, we believe it proper to furnish the following data:

Out of six channel samples taken of material in place on one examination, only one sample indicated ore grade material and that for only one foot in width. The other five samples ranged from 0.01% WO_3 over a width of 6.0' to 0.51% over a width of 2.4'. Obviously, such results do not indicate the probability of making a significant discovery. Other sampling and lumping of exposures by these and other examiners confirmed this conclusion.

In addition, the information gathered by the examiners indicates that the mineralization occurred in small irregular lenses in inclite which lacked continuity. Hence, the probability of finding a worthwhile ore deposit was not favorable. The fact that a 50 ton mill on the property had operated only for a limited time confirmed that the material mined was not of ore grade. Under the circumstances this application was denied.

Your letter also asks for a current status report on the OME program for tungsten. Tungsten is not one of the minerals eligible for financial assistance from OME. The eligible minerals are listed on page 2 of the OME regulations attached to the enclosed copy of our press release of December 23, 1958. Consequently, no application to OME for tungsten exploration assistance can be accepted.

OME, as successor to DMEA, is liquidating the DMEA program to the extent that exploration project contracts in effect on June 30, 1958, are being continued until terminated in accordance with the contract provisions; therefore, any tungsten contracts in effect on that date are being handled in the same manner. All DMEA applications pending as of July 1, 1958, were held for consideration under the new OME program. However, this group did not include any tungsten applications.

Sincerely yours,

Secretary of the Interior

Hon. Wayne Morse
United States Senate
Washington 25, D. C.

Enclosure

WSMARTIN/FRJOHNSON/fec
1-30-59
cc to: Code 400
Secretary's File
" Read. File
~~MEM~~
MR (2)
BL
FT. REG. II
R. W. Holladay, USBM
T. H. Kiilsgaard, USGS
DCCO

RES 7047

THEODORE FRANCIS GREEN, R. I., CHAIRMAN
J. W. FULBRIGHT, ARK.
JOHN SPARKMAN, ALA.
HUBERT H. HUMPHREY, MINN.
MIKE MANSFIELD, MONT.
WAYNE MORSE, OREG.
RUSSELL B. LONG, LA.
JOHN F. KENNEDY, MASS.
ALEXANDER WILEY, WIS.
H. ALEXANDER SMITH, N. J.
BOURKE B. HICKENLOOPER, IOWA
WILLIAM LANGER, N. DAK.
WILLIAM F. KNOWLAND, CALIF.
GEORGE D. AIKEN, VT.
HOMER E. CAPEHART, IND.

CARL MARCY, CHIEF OF STAFF
DARRELL ST. CLAIRE, CLERK

United States Senate

COMMITTEE ON FOREIGN RELATIONS

PRS
JAN 27 1959 7047

TO:	MDM	
REPLY TO BE PREPARED BY:	MDM	
FOR SIGNATURE OF:	MR	
COPY OF LETTER FURNISHED		
MR	DL	
SEND REPLY COPY TO ABOVE		

January 24, 1959

Mr. Frank E. Johnson
Acting Administrator
Office of Minerals Exploration
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

An Oregon attorney, who is interested in a concern designated as the Mark II Mining Company, Inc., has written to me regarding a problem the Company has experienced in applying for an OME loan in developing its tungsten properties. Upon the basis of copies of correspondence forwarded to me, I believe the problem relates to your Docket No. 4483, designated as "Tungsten - North Meadow Mines, Tulare County, California."

In one of the letters that was brought to my attention in this case, an official of the Company expressed deep concern over the fact that OME had made a finding of "insufficient mineralization." Apparently, all that the Company has is the OME assertion that insufficient mineralization is a fact. It occurs to me that it would be of considerable help in resolving this problem if, under the rules and regulations of your agency, it were permissible to supply the supporting factual data which established the "insufficient mineralization" in this case.

If such data could properly be forwarded to my office under the circumstances, I would appreciate receiving the same for purposes of transmittal to the officials of the Mark II Mining Company.

Also, it would be of assistance to me if you could provide me with a current status report concerning the OME program on tungsten.

Sincerely yours,

Wayne Morse

Wayne Morse

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 27 1959

DATE	INITIALS	CODE
1/27	C	220
		400
	WM/ef	

WSMARTIN:foc
2-5-59

Martin

Dear Senator Morse:

Because your letter of January 24, 1959, to Mr. Frank E. Johnson, Acting Director, Office of Minerals Exploration, concerns an exercise of judgment by DMEA that was appealed to the Secretary of the Interior slightly more than one year ago, it has come to this office for reply.

It is noted that, according to correspondence brought to your attention, an official of the Mark II Mining Co., Inc. (Docket No. DMEA 4483 - Tungsten, North Meadow Mines, Tulare County, California) expressed deep concern over the fact that OME had made a finding of "insufficient mineralization", leading you to believe that all the Company has is the OME assertion that insufficient mineralization is a fact. We do not understand how the matter could have been thus expressed to you.

What was actually stated in our letter of denial was that projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that would significantly improve the mineral supply position of the National Defense Program, and that careful study of all our information, although noting the occurrence of tungsten mineralization on the Company's property, indicated to us that the probability of disclosing significant ore reserves was not sufficiently promising to justify Government participation.

Following the appeal mentioned above, we carefully reviewed the application and all relevant data in our files. We then informed the applicant's attorney, Mr. James V. Collins, that the previous basis for denial was correct and, consequently, that in our view denial of the application was proper.

We also believe that, even if our view should be found to be mistaken, no useful purpose could now be served by supplying further factual data to the officials of the Mark II Mining Company. That is because the authority of DMEA to execute contracts did not extend beyond June 30, 1958. OME, as successor to DMEA, is liquidating the DMEA program and is continuing the exploration project contracts in effect on that date only until terminated according to contract provisions.

Furthermore, tungsten is not one of the minerals eligible for financial assistance from OME, as listed in the attached reprint from the Federal Register of December 23, 1958, et. seq. For that reason, no application to OME for tungsten exploration assistance can be accepted.

Sincerely yours,

Secretary of the Interior

Hon. Wayne Morse
United States Senate
Washington 25, D. C.

Enclosure

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

Dear Senator Morse:

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Ordinarily, the information contained in our examiners' reports is considered confidential for Government use only. However, since this case continues to come up from time to time, we believe it proper to furnish the following data:

Out of six channel samples taken of material in place on one examination, only one sample indicated ore grade material and that for only one foot in width. The other five samples ranged from 0.01% WO_3 over a width of 6.0' to 0.21% over a width of 2.4'. Obviously, such results do not indicate the probability of making a significant discovery. Other sampling and lamping of exposures by these and other examiners confirmed this conclusion.

In addition, the information gathered by the examiners indicates that the mineralization occurred in small irregular lenses in tactite which lacked continuity. Hence, the probability of finding a worthwhile ore deposit was not favorable. The fact that a 40 ton mill on the property had operated only for a limited time confirmed that the material mined was not of ore grade. Under the circumstances this application was denied.

Your letter also asks for a current status report on the OME program for tungsten. Tungsten is not one of the minerals eligible for financial assistance from OME. The eligible minerals are listed on page 2 of the OME regulations attached to the enclosed copy of our press release of December 23, 1958. Consequently, no application to OME for tungsten exploration assistance can be accepted.

OME, as successor to DMEA, is liquidating the DMEA program to the extent that exploration project contracts in effect on June 30, 1958, are being continued until terminated in accordance with the contract provisions; therefore, any tungsten contracts in effect on that date are being handled in the same manner. All DMEA applications pending as of July 1, 1958, were held for consideration under the new OME program. However, this group did not include any tungsten applications.

Sincerely yours,

Secretary of the Interior

Hon. Wayne Morse
United States Senate
Washington 25, D. C.

Enclosure

Excerpts from Mr. Mittendorf's diary:

Tuesday, Sept. 9, 1958

Bill Broadgate, of Senator Murray's office, phoned for an appointment to discuss the Mark II case. I thought we had put this to rest after the applicant appealed to the Secretary, who sustained our previous decisions. Apparently the applicant is still after Neuberger, and Neuberger has turned to Senator Murray for help. Broadgate has been asked to come over to talk to me with the hope that I will show him, or read to him, parts of the docket. We set up the meeting for 3 p.m. Thursday.

Thursday, Sept. 11, 1958

Broadgate was unable to keep his appointment. He phoned at 3:30 and said he had been tied up in a conference and couldn't get out to phone me.

Monday, Sept. 15, 1958

Broadgate came in at 2:30 and stayed here for about an hour. He seemed to agree fully with the actions we took on the Mark II case, DMEA-4483.

Tuesday, Sept. 16, 1958

Broadgate phoned to read me the memo. he had prepared on the Mark II case. It will be classified "confidential" and addressed to Sen. Neuberger. I think Bill did an excellent job. He took no notes yesterday, but his recollection of what I told him about the case was truly remarkable. He supported our action 100 percent. He gave no quantitative or qualitative data and protected us nicely. He assured me that his memo. would not get into the hands of the applicant (Collins). He said that was a definite understanding that he reached with Neuberger's office before he agreed to come to my office to investigate the case.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-17	Martin	400
4/17	Selfridge	120
4/17	Dwyer	140
	Stevens	140
4/18	Johnson	110
"	Rattenbury	100
		225

SOLICITOR

APR 17 1958

INTERIOR DEPT.

APR 18 1958

Hon. Richard L. Neuberger
United States Senate
Washington 25, D. C.

Dear Senator Neuberger:

Your memorandum, dated April 8, 1958, asks for comment on Attorney James V. Collins' letter, dated March 31, 1958, to you enclosing an affidavit, a geologist's report, and pages 11 and 12 of a publication of The Tungsten Institute (undated).

My letter dated March 14, 1958, assured you that the application of Mark II Mining Co., Inc., Docket No. DMEA 4483, had been thoroughly reviewed, that a new analysis had been made based upon all relevant data available in our files, and that the decision to deny the application appeared to be a proper one.

Mr. Collins' letter did not submit any new geologic or mining data requiring a further evaluation of the merits of the application. Mr. Theo. K. Sawyer's letter dated September 6, 1956, to Mark II Mining Company is the same report of examination submitted with the company's application and was duly considered in our deliberations. On the other hand, Mr. Collins' letter alleges that, from appearances, the action of the Washington office has been intentionally oblique " . . when in fact the properties involved show more than enough prospects for a tremendous ore body."

Our usual procedure provides for examination of properties by a geologist and a mining engineer, either jointly or separately. Their reports are reviewed by a Regional Field Team of the DMEA and submitted, usually with separate comments, to members of a commodity group in the Washington office. The entire file, including the application and all reports and recommendations, is then submitted through the Operating Committee of the DMEA to the Administrator for final decision as to whether an application shall be approved or denied. Of course this determination cannot be delegated. We assure you that the regular procedure was followed in this case.

We find no evidence that the applicant was misled. Although Mr. Roscoe E. Smith may have indicated to the applicant that he

8623

personally favored some exploration, the joint affidavit of Messrs. Altman and Collins indicates, by the very language in it, that the applicant understood that final decision would be made in the Washington office. We should also point out that two prior applications submitted for this same property by another company were denied; nevertheless, when evidence of additional work by the Mark II Mining Co. Inc. was submitted, the property was reexamined and again evaluated.

It is true that the Government has incurred expenses in connection with this application. However, this fact alone does not justify spending more of the taxpayers' money for a project which our data and criteria indicate will not result in a significant discovery.

We have not commented on tungsten purchasing during World War II as represented by the statements of The Tungsten Institute because the statements are too remotely related to the question at hand.

Your enclosures are returned as requested.

Sincerely yours,

Administrator

Enclosures

WSMartin/HCRubin/foc
4-17-58
cc to: Code 400
MDM
MR
DL
DCCO
FT. REG. II
T. H. Kiilsgaard, USGS
R. W. Holliday, USBM
Secretary's Reading File

PRS 8679

United States Senate

RECEIVED
APR 11 1958
D. M. G.

Washington, D. C., April 8, 1958

Respectfully referred to

Mr. C.O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D.C.

I have attached recent correspondence and documents that I have received from Mr. James V. Collins, attorney at law, Portland, Oregon, who represents the Mark 11 Mining Company. Reference is made to your previous report on this case. I would appreciate your comments on Mr. Collins' letter and documents, and please return to me the attached correspondence.

Dick Neuberger

RICHARD L. NEUBERGER
United States Senator

PRS
APR 10 1958 8679

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MDM
COPY OF LETTER FURNISHED	
MR DL	
SEND REPLY COPY TO ABOVE	

WBM 4/11/58

U. S. S.

U. S. GOVERNMENT PRINTING OFFICE 16—45102-2

JAMES V. COLLINS
ATTORNEY AT LAW
CAPITOL 8-9888
400 LOYALTY BLDG.
PORTLAND 4, OREGON

March 31, 1958

(6)

Senator Richard Neuberger
Senate Office Building
Washington, D. C.

Dear Senator Neuberger:

In reply to your letter of March 26 and enclosure, I am sending an affidavit by Mr. Abe Altman and myself in Re the statements made by the Bureau of Mines principal geologist for the State of California, Mr. Rosco Smith.

It appears that those in charge of the DMEA loans have taken a biased and arbitrary position in regard to our application. I am enclosing the original of a report made by one of Southern California's most reputable geologist in order that you may know that we are not shooting blanks. I do not believe that the DMEA can produce the field reports from any of their geologists that will support the position that they now take.

On behalf of the stock holders of the Mark II Mining Company, I hereby request that you, as a member of the Committee on Interior and Insular Affairs, request a copy of any and all reports and recommendations made by any and all geologists in regard to the four mining claims owned by the Mark II Mining Company. We make this request with the idea in mind that these reports be submitted to an impartial geological arbitrator. The expenses of the arbitration will be borne by our company.

If I, on behalf of the Mark II Mining Company, appear to be overly persistent in pursuing the approval of the loan application from the DMEA, it is only because I am personally convinced that for some reason unknown to me that the powers that be within the DMEA setup have intentionally or otherwise gone out of their way to turn down our application when in

fact the properties involved show more than enough prospects for a tremendous ore body. It goes without saying that I am interested from a financial standpoint, personally and on behalf of those who hold stock in the company, but equally I am interested because of the tremendous value that a heretofore unknown deposit of tungsten ore would have toward the safety of this country should foreign markets ever be closed to us during the time of an emergency. I frankly cannot understand how those in charge of the DMEA can fly in the face of their own geologists' reports and deny our application for such a small sum of money particularly in the view of the fact that they have already expended several thousand dollars in order to acquire the detailed information which they now have in regards to our property.

Thanks again for all of your efforts in our behalf.

Sincerely,

James V. Collins

jc/bc

Tungsten - The Story of an Indispensable Metal
Published by
The Tungsten Institute
1755 K Street, N.W. Washington, D.C.

China's tungsten deposits are the largest known resources. But in the days of the Sino-Japanese War, forerunner of World War II, the flow of tungsten was disrupted. Stockpiles, however, accumulated in Indo-China. Japan coveted that supply.

During World War II when the Vichy regime came to power in France, Japan had Germany order Vichy to remove the Governor-General of Indo-China in favor of another who would cooperate better in the matter of huge tungsten shipments stored in Indo-China and destined for Japan. But before the shift of Governors could be made, the United States quietly and quickly arranged for purchase of the entire stock, and off went this strategic metal to the United States with Japanese war vessels in pursuit. The shipments got to America safely just prior to Pearl Harbor.

In the race for tungsten hung the balance between victory and defeat. Germany was paying Portugal and Spain $50,000 a ton for the vital, critical metal. Both Britain and the United States entered into this "preclusive" buying at the same high price on the sound theory that every pound of tungsten ore they bought was one pound less for Hitler. No!

Tungsten, in times of crisis, serves a nation as well as gold. Before the era of lend-lease, the Chiang Kai-shek government used China's rich tungsten ore as security for large loans arranged by the United States.

awesome, most destructive armor-piercing missile yet invented by man.

It was two years — a period to be measured by death and destruction, fearful costs in human lives, not just a period of calendar days — before the United States perfected similar projectiles and produced them in quantity sufficient to give the Allies victory in the Battle of the Bulge.

The tungsten carbide core of the projectile pierces the walls of armored tanks virtually as if they were paper and, having penetrated, scatters lethal pieces of most intense heat and destruction. U. S. military requirement of tungsten during the peak munitions production year of World War II was approximately 30 million pounds of tungsten metal, more than twice again the production of this country.

Tanks, trucks, guns, shells, armor-piercing projectiles — all the paraphernalia of war — depend on high-speed steel tools. The best high-speed steels are made of tungsten alloy. Altogether, tungsten was used in 15,000 different types of war items in World War II.

Tungsten in the form of a high-velocity projectile's inner core, and in the form of tool steels helped vastly to bring victory and an end to World War II.

It played its part in the Korean conflict in projectiles and machines and in atomic threat.

Tungsten itself is a component of precision instruments or is used in making these instruments, including range finders controlled by radar, and the geiger counters used to find radioactive materials for nuclear fission.

The nation possessor of a tungsten stockpile possesses, also, political as well as military power.

THEO. K. SAWYER
GEOLOGIST AND PETROLEUM ENGINEER
TELEPHONE FAIRVIEW 7-8247
P. O. Box 194, STA. A
BAKERSFIELD, CALIFORNIA

September 6, 1956

Mark II Mining Company,
Lamarville, Calif.

Gentlemen:

On Sept. 3, I made a brief examination of your properties in the Kernch Creek mining district, Tulare County, Calif known as North Meadow #1, North Meadow #2, Mata #1 and Mata #2. The purpose of this examination was to determine the advisability of undertaking a core drilling program in order to further evaluate the extent of the known ore body, and to determine the best method of developing same.

The main ore body consists of a ledge of Tactite averaging approximately 30' in thickness, and standing in an almost vertical attitude with granite on the foot-wall side. The hanging-wall side in most instances is marked by a well defined fault, with various rocks including altered limestones, quartz, etc on the other side. The ore body is exposed on the surface of the ground in many places and can readily be traced across the property in a line shown on the attached map as a heavy dashed line. Surface workings have opened the ore body in several locations as shown on the map, and underground workings have penetrated the body through its entire width. The tunnel passed through the fault and into the country rock on the other side. Strong values were even present beyond the fault. A winze was sunk about 35' down in the main ore body and good values persisted for its entire depth. Three samples of selected milling rock were taken on this trip and designated as North Meadow #1, which came from the surface workings on the North Meadow #1 claim. #2 Tall Can was obtained from the surface workings on Mata #1 claim, where there is approximately one hundred tons of ore stockpiled. #2 Small Can was taken from the winze within North Meadow #2 claim. The assays on these three samples are herewith attached. Other previous sampling has indicated that although the main ore body is quite consistent in thickness and extent, the values vary considerably, from very high grade to lean.

Taking into consideration the size and extent of the main ore body and its attitude with relation to the country rocks, the only method of properly evaluating this deposit would be by careful core drilling before trying to develop the mine. This program I definitely recommend.

Yours very truly,

Theo. K. Sawyer
P.E. Reg. #[illegible]

TKS/m

A F F I D A V I T

We the undersigned, Abe Altman (Secretary and Treasurer of the Mark II Mining Company) and James V. Collins (a director of and attorney for Mark II Mining Company) of Portland, Oregon, being each first severally and duly sworn, each for himself and on his oath deposes and says: That on or about the 15 and 16 of August, 1957, we did accompany Rosco Smith, the supervising geologist of the Bureau of Mines for the State of California, on an inspection tour of four mineral claims known as North Meadow #1, North Meadow #2, Meta #1, and Meta #2. These claims being located in Tulare County, California and being the property of the Mark II Mining Company of Portland, Oregon. At the conclusion of the two-day examination, Mr. Rosco Smith, in our presence and while speaking directly to us, stated as follows: That the above designated claims evidenced sufficient showings of mineralization to justify a loan from the DMEA in order that they might be core drilled. That Mr. Rosco Smith stated to us that he would recommend the approval of the DMEA loan to the Mark II Mining Company, and that he would personally sell the proposed program for core drilling as applied for to the Washington office. That Mr. Rosco Smith stated to us at the conclusion of our conversation that he would see us back on the mountain after the DMFA loan was granted.

s/ ABE ALTMAN

s/ JAMES V. COLLINS

Sworn and subscribed to before me this 2nd day of April, 1958.

s/ J. J. MURCHISON
Judge of the Municipal Court
in and for the city of Portland,
Oregon.

FILE COPY
Surname:
DMEA

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

Negotiator
Surveyor
Selfridge
Jackson
Mittenbergh

MAR 14 1958

Dear Mr. Collins:

The application of the Mark II Mining Co., Inc., 222 S. W. Oak Street, Portland 4, Oregon, for exploration aid from Defense Minerals Exploration Administration, our Docket No. DMEA 4463 - Tungsten, and all relevant data in our files have been carefully reviewed. The review included full consideration of the matters discussed in your letter of January 14, 1958, to Senator Richard L. Neuberger.

As you are aware, Defense Minerals Exploration Administration, in considering proposed exploration projects, must determine whether in its judgment the respective properties give adequate promise of providing significant quantities of materials of acceptable grade for the National Defense Program.

We find that the previous basis for denial as set forth in the DMEA Administrator's letter of September 27, 1957, was correct; namely, that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation.

Consequently, we regret to advise you that in our view denial of the application was proper.

Sincerely yours,

(sgd) Royce A. Hardy

Assistant Secretary of the Interior

Mr. James V. Collins
Attorney for Mark II Mining Co., Inc.
222 S. W. Oak Street
Portland/Roc Oregon 58

cc to: Docket
Code 400
Secretary's File
" Read. File
MDM
MR
DCCO
DL

cc to: Sen. R. L. Neuberger
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

PRS 5353

A FORM 6 ERENCE SLIP

EV. 12-56 DEFENSE MINERALS E P RATION ADMINISTRATION

TO:	INITIALS	DATE
1. ~~Assistant Secretary~~ for Mineral Resources		
2. Legislative Counsel		
3. Mr. George Abbott, Special ~~Assistant~~ to the Secretary		
4. Asst Sec'y M R		
5.		
FROM: R. D. Mattendorf		

FOR: Check items for action desired

____ Action	____ Reply for signature of ____	
____ Approval	____ Investigate	____ Surname
____ Comment	____ Recommendations	____ Signature
____ Conference	____ Rewrite	____ File
____ Instructions	Your information	

REMARKS:

Incoming correspondence filed in docket 4483, attached.

Dispose this slip

MEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/5	Martin	400
	Sanger	140
		140
3/5	Seffordge	120
3/	Boyson	110
6	Mitterdorf	400
		220
	Holiday	

MAR 14 1958

Hon. Richard L. Neuberger
United States Senate
Washington 25, D. C.

Dear Senator Neuberger:

By letter of January 29, 1958, we promised to inform you upon completion of the review of the application of the Mark II Mining Co., Inc., for aid in exploring mining claims in Tulare County, California, our Docket No. DMEA 4483 - Tungsten.

The proposed project was thoroughly reviewed and a new analysis was made based on all relevant data in our files. No indication was disclosed that the former disapproval was incorrect. Enclosed, therefore, is copy of a letter to the applicant's attorney, Mr. James V. Collins, affirming the denial of September 27, 1957, of that company's application for such aid.

The matters contained in the letter that Mr. Collins addressed to you on January 14, 1958, which we previously returned to you, were also investigated. No confirmation was found for Mr. Collins' several statements that various government geologists and engineers informed him that his application for aid would be granted. Ordinarily the field examiners, Executive Officers of DMEA Field Teams or Commodity Group Members here in Washington, if they even discuss with an applicant the merits of his project, are careful to explain that they only make recommendations and have no authority to approve applications. We regret that there may have been any misunderstanding.

Sincerely yours,

G. D. McKinney (for)

Administrator

WSMartin/foc 3/5/58
cc to: Code 400
MDM
MR
DL
DCCO
FT. REG. II

Enclosure
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Secretary's Reading File

PRS 5426

8623

A Form 7
12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/4	GCS	120
"	[illegible]	110
"	[illegible]	100
		225

March 4, 1958

MEMORANDUM

To: Administrator

From: George C. Selfridge, Special Assistant

Subject: Denial of Docket No. DMEA-4483 (Tungsten)
Mark II Mining Company, Inc.
North Meadow claims
Tulare County, California

The writer has carefully reviewed the subject docket and Dockets Nos. DMA-1844X and DMEA-2673, Pacific Star Mines, Inc., involving projects on the same property, and can only reiterate and concur in the justifications supporting the denials, especially that one in the subject docket dated September 17, 1957, which sets forth a rather lengthy summary of available data.

In the first place, relatively small tactite bodies occur in an area of small roof pendants, some of which are as small as 5 feet in diameter. Concentrations of scheelite occur in small lenses in the tactite, these possibly ranging to 2.5 feet in width and 15 to 25 feet in length. Thus, the over-all grade of the tactite is low, and from the data submitted it would appear that only a few thousand tons at most of possibly 0.5% "ore" might be mined from the property. At the present time and probably for some time to come, the limited tonnage of this grade of ore would not be economically minable. 1/

The first application--Pacific Star Mines, Inc., DMA-1844X--was denied August 24, 1951, without a field examination, based on a poorly prepared application which suggested a limited size of exposures, the maximum strike length being about 50 feet on the Meada No. 1 claim.

The second application--Pacific Star Mines, Inc., DMEA-2673--was denied on December 19, 1952, based on the information contained in a Field Team examination report. The report indicated that the small bodies of metamorphic rocks occurring in granodiorite formed a discontinuous band. Small bodies of tactite containing discontinuous showings of scheelite occurred in the metamorphic rock pendants. At the time of this examination, it was estimated that the largest of the outcrops contained about 6000 tons of tactite of which 10 per cent, or 600 tons, might average 0.5% WO_3. As the property is in the High Sierras

and is rather difficult of access, it cannot be worked during the winter.

A Field Team report by Reeves, Taylor and Warne, dated June 17, 1957, under the subject docket describes four areas of tactite ranging from 150 to 250 feet in length and averaging about 50 feet in width. The report presented a very optimistic reserve figure based on limited sampling as shown in the September 17, 1957, justification for denial in the subject docket. This fact is acknowledged by the Field Team in Mr. Ricker's memorandum of February 5, 1958, which states that the "Report by Reeves, Taylor and Warne was rather confusing as the inference on ore reserves was unrealistic based on data available."

The property was later examined by Mr. Roscoe Smith who reduced the reserves from 54,750 tons to 11,500. Ten thousand tons of this reserve is assigned to Area No. 1. Its grade, .71% WO_3, is based on a single grab sample taken at the time of the first examination. An 8.6 foot channel sample and a grab sample of coarse material at the same locality assayed 0.08 and 0.08 per cent WO_3, respectively.

Study of the subject docket suggests that possibly fluorescent calcite was not distinguished from scheelite, and/or sampling and assay procedures were not good. It is difficult to understand why one would cut a 2-foot channel across a scheelite band which assayed only 0.01% WO_3. It is believed that the limited diamond drilling would add little good information when a grab sample of a 50-ton ore stockpile at the mill assayed 0.02% WO_3. As a good part of the tactite can be mined by open pit, and thus furnish the best test possible, the only reason one would want to drill to depth would be to see whether higher grade material existed there. There is nothing in any of the dockets suggesting such a possibility.

George C. Selfridge

GCSelfridge/esf
3/4/58
cc: Dockets - DMEA 4483
" 1844X
" 2673
Admr. R. File
Mr. Selfridge

1/ This 0.5% WO_3 grade is partly supported by sample No. GS-3 which assayed 0.51% WO_3 and is described in Roscoe Smith's memorandum of August 30, 1957. The sample was a grab sample taken from 75 tons of ore stockpiled at the mill. This came from a cut from which about 300 tons of material had been excavated.

FILE COPY
Surname:

DMEA

Martin

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

Dear Mr. Collins:

~~As we informed you in our letter of January 24, 1958, we have new appraised in its entirety~~ the application of the Mark II Mining Company, Inc., 222 S. W. Oak Street, Portland 4, Oregon, for exploration aid from Defense Minerals Exploration Administration, our Docket No. DMEA 4483 - Tungsten.

~~Our review did not disclose any facts which altered our previous conclusions~~, namely, that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation.

Consequently, we regret to advise you that, ~~our~~ denial ~~of September 27, 1957~~ of ~~your~~ the application ~~is reaffirmed.~~

Sincerely yours,

Secretary of the Interior

Mr. James V. Collins
Attorney for Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

~~Withdrawn/Sec 2-28-58~~
cc to: ~~Sec Adv~~
~~Secretary's File~~
~~Secretary's Read. File~~
~~[illegible]~~
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DOCD
DL
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Sen. R. L. Neuberger

PRS 5353

COPY FOR THE SECRETARY'S OFFICE

DRAFT
WSMARTIN/foc
2-27-58

Martin

Dear Mr. Collins:

1. As we informed you in our letter of January 24, 1958, we have now reviewed in its entirety the application of the Mark II Mining Co., Inc., 222 S. W. Oak Street, Portland 4, Oregon, for exploration aid from Defense Minerals Exploration Administration, our Docket No. DMEA 4483 - Tungsten.

2. Our review did not disclose any facts which altered our previous conclusion; namely, that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation.

3. Consequently, we regret to advise you that our denial of September 27, 1957, of your application is reaffirmed.

Sincerely yours,

Rewrite

Secretary of the Interior

Mr. James V. Collins
Attorney for Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

PRS 5353

DRAFT
WSMARTIN/foc
2-26-58

Martin
Pilaggard
Lamb

Dear Mr. Collins:

~~By~~ our letter of January 24, 1958, we ~~agreed to~~ now review in its entirety the application of the Mark II Mining Co., Inc., 222 S. W. Oak Street, Portland 4, Oregon, for exploration aid from Defense Minerals Exploration Administration, our Docket No. DMEA 4483, Tungsten.

~~In the absence of any new geological or production data from you, our review does not indicate to us that your project gives sufficient promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.~~ Consequently, we regret to advise you that our denial of September 27, 1957, of your application is reaffirmed.

~~Please be assured, moreover, that our previous denial of exploration aid was based solely on the reason stated by DMEA.~~ Namely, that the probability of disclosing significant ore reserves is not sufficiantly promising to justify Government participation.

Sincerely yours,

Secretary of the Interior

Rewritten

Mr. James V. Collins
Attorney for Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

PRS 5353

RECEIVED
FEB 28 1958
ASSOC. SOLICITOR
MINERAL RESOURCES

DRAFT
WSMARTIN/foc
2-26-58

Martin

MEMORANDUM

To: Administrator, DMEA

From: W. S. Martin, Director, Iron & Ferro-Alloys, DMEA

Subject: Letter of January 17, 1958, to the Secretary from Mr. James V. Collins, Attorney for Mark II Mining Company, Inc. Docket No. DMEA 4483 - Tungsten

This Division recommends that the attached letter be sent to Mr. James V. Collins to complete the information given to him in Mr. Hardy's reply of January 24, 1958, to the captioned appeal.

The suggested reaffirmation of our previous denial is based on the consideration that we now have no ~~the applicant has not added in anyway to the~~ data that were not available when we wrote ~~included in~~ our memorandum of review of September 17, 1957, with its accompanying map.

Mr. Roscoe M. Smith has summarized the problem in his memorandum of August 30, 1957, covering the examination he made in response to our letter of July 23, 1957. That letter questioned some of the conclusions in the on site examination report of June 17, 1957. Smith's significant words are:

"Although two former applications have been denied, subsequent exploration by the owners has exposed ore bodies of sufficient size and grade to indicate that a small project is warranted. Although there is no indication that there will ever be a large mine at these deposits, there is a fair chance that small, high-grade ore shoots may be discovered which will be of considerable significance to the owners. There is some probability of duplicating the history of the adjoining properties east and west of this one along the same contact, where similar size ore shoots of exceptionally high-grade were discovered."

My figures are
based on the idea
that to recover
100% of his
contribution the
operator should
find enough more
than the exact amount
he contributes to
pay the DMEA royalty.

We do not agree that in this instance, or any other, a project is justified solely because it "will be of considerable significance to the owners." The Government participation was set at 75% when this application was being considered. At that rate a project might find enough ore to repay 100% of the operator's contribution to the project cost but the royalty payable to the Government on that amount of ore would amount to 1 3/4% of the Government contribution.

$$\frac{.05 \times \frac{.25}{.95}}{.75} = \frac{.05 \times .25}{.75 \times .95} = \frac{.0125}{.7125} = 1.75$$

Even at a 50% Government participation if an operator found just enough ore to repay itself for the project cost, the corresponding royalty return would be only 5¼% of the Government contribution.

$$\frac{.05 \times \frac{.50}{.95}}{.50} = \frac{.05 \times .50}{.50 \times .95} = \frac{.025}{.475} = 5.26$$

Our ~~very rough~~ rule of thumb has been that if we do not seem to have ~~at least an even~~ a good chance of ~~recovering at least half the Government contribution~~ making a significant discovery we should recommend denial of any application, ~~and that unless~~ however longer chances can be taken if the target appears to be of better than average proportions. Here the target is relatively insignificant. "Some probability of duplicating the history of the adjoining properties" does not promise much when the better of the two has produced less than 40 units per month over the three years cited in the report. The applicant already has a 40 ton mill installed on the property. At that rate the mill would only have feed enough for about 5 days operation per month over the 6 summer months, the only ones when climatic conditions allow operation.

This is a borderline application. Ordinarily we concur in the recommendation of the field examiners, and the Field Team, especially when

the commodity specialists concur in such recommendations. Here, according to the applicant's letter of January 14, 1958, to Senator Richard L. Neuberger, in excess of $40,000 has already been invested in the improvement and development of these claims. We feel that even the limited program recommended might encourage further unwarranted public participation. Furthermore, our experience, with what we believe were much the same type of scheelite showings, indicates that the results to be expected from such a small footage of widely and erratically spaced drilling would most probably be indeterminate.

W S Martin

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

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

Office of the Sec.
DMEA
RECEIVED FEB 10 1958

DATE	INITIALS	CODE
2/10	C	320
	WSM	400

February 5, 1958

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4483 (Tungsten)
Mark II Mining Company, Inc.
North Meadow Mines
Tulare County, California

I note that in going through our files in regard to problems posed in your letter of January 29, 1958 that we never forwarded copies of the enclosed memorandum from Roscoe Smith, dated August 7, 1957. This memorandum was held up due to the fact that we had scheduled a re-examination which was covered by Roscoe Smith's memorandum to me August 30, 1957. Copies of this were forwarded under cover of my memorandum to you dated September 4, 1957. The enclosed memorandum of August 7, 1957 does not add much pertinent data on the merit of the property except to confirm the opinion of Mr. Paul Taylor that a project is warranted.

The recommendation in the preliminary reports on this property by Ben Sheahan, W. P. Irwin, and J. F. Robertson during 1951 and 1952 were justified at the time due to lack of sufficient preliminary prospecting data to justify DMEA aid. Since that time, additional work had been done. Report by Reeves, Taylor, and Warne was rather confusing as the inference on ore reserves was unrealistic based on data available. Upon suggestion from Washington, the re-examination by Roscoe Smith, covered by his memorandum of August 30, 1957, cut the property down to proper size and I believe his recommendations

justify favorable reconsideration of the application.

Roscoe Smith and I are very careful to inform applicants that approval of exploration aid is made by our Washington office in accordance with DMEA policy. I am sure that neither he nor any of our men informed Mr. Collins that a contract was by any means assured. Inasmuch as the manner of properly exploring a property is always discussed with the applicant, it is entirely possible that he inferred that our Field Team was favorably inclined toward exploration work if it met the requirements of our Washington office. Mr. Collins called this office numerous times requesting the status of the application and it is possible he got the impression that I thought a moderate project was possible.

S. Ricker

Attachment

BUREAU OF ARCHIVES
WASHINGTON, D. C.
FEB 7 9 13 AM '58

EXTRA COPY
DMEA
RECEIVED
DATE
CODE

August 7, 1957

Memorandum

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

From: Roscoe M. Smith

Subject: DMEA-4483 (Tungsten)
Mark II Mining Co., Inc.
North Meadow claims
Tulare County, California

In response to Mr. Martin's letter of July 23, 1957 in which questions about ore reserve estimates are raised, I have reviewed the application report and have the following comments:

Bob Reeves had left Menlo Park on his new assignment to Brazil at the time the rough draft of the report was received in my office. I have not been able, therefore, to discuss with him his method of calculating reserves nor his reasons for wishing to explore in the low grade areas. I have discussed the prospect with Paul Taylor and, although he was called back to our office before the examination was completed or the property was lamped, his preliminary observations confirm that an exploration project is warranted in areas No. 1 and No. 2.

Area No. 1. Mr. Martin's letter points out that the entire tactite zone cannot be mined as ore. On page 8 of the application report, line 7 says that the ore consists of scheelite in a gangue of (tactite). Lines 11 and 12 state that the ore is quite uniformly distributed through the gangue. This explains why all the tactite was included in the reserve estimate. The last sentence of this paragraph refers to faults which have a minor influence on the distribution of scheelite and states that these faults are on the order of 6 inches to 2 feet apart.

Area No. 2 contains lenses of ore 2 to 4 feet wide, typically 30 inches across, and 15 to 25 feet long. Only four such lenses are mapped on figure 4 but the report states on page 9 that scheelite-bearing lenses are irregularly distributed through the body and that the ore closely resembles that of area 1. Because the geologist inferred that as much as one-tenth of the tactite body may be ore it is evident that he inferred more lenses than are shown on the map. Most of the tactite here is covered by soil, and even though ore cannot be mapped the inference would appear to be valid. Here the documentation of grade is scanty and the only assay is 3.10 percent WO_3 across a width of 1 foot. The sampling serves principally as a guide to the visual estimation of the grade of the entire deposit, and is indicative also of the maximum grade to be expected in inferred bodies.

On page 12 the concluding paragraph of Ore Reserves states that in areas 2, 3, and 4 it may not be possible to economically produce ore as material of ore grade is distributed throughout the tactite bodies.

In areas No. 3 and 4 samples and visual estimates confirm that the mineralized material is not minable ore.

The last two paragraphs of Mr. Martin's letter concern sampling of the stockpile and the feasibility of diamond drilling. I have no pertinent information on these two subjects.

I suggest that the proposed contract be written in two stages, the first to cover drilling in areas 1 and 2 where the recommendations are best substantiated. Exploratory work in areas 3 and 4 was presumably recommended because of the probability of a similarity among all of the tactite bodies, in spite of the absence of similarity in grade at the surface. Additional exploration in areas 1 and 2 may well yield information from which the other areas may be better assessed. If Stage II is made contingent upon the results of Stage I and subject to Government approval in advance, we shall have a better control of the project and be in a better position to determine whether work in areas 3 and 4 is warranted.

1605 Evans Avenue
Reno, Nevada

February 5, 1958

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4483 (Tungsten)
Mark II Mining Company, Inc.
North Meadow Mines
Tulare County, California

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S. Ricker

Attachment

RECEIVED
DATE

August 7, 1957

Memorandum

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

From: Roscoe M. Smith

Subject: DMEA-4483 (Tungsten)
Mark II Mining Co., Inc.
North Meadow claims
Tulare County, California

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DMEA Form 7
(12-56)

Retyped

OFFICIAL FILE COPY

Date	Surname	Code
2/4	Martin	400
2/4	(WS Martin)	130
"	Johnson	110
"	Rettendorf	100
		~~HB~~
2/4	C	200

FEB 4 1958

AIR MAIL

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

Re: Docket No. DMEA 4483 - Tungsten
Mark II Mining Company, Inc.
North Meadow Mines
Tulare County, California

Dear Mr. Ricker:

Enclosed, to avoid any possibility of confusion, are thermofax copies of the letters, Items 4 and 5, mentioned in our letter to you of January 29 regarding the subject docket.

Your telegram of February 3 states that the two items in question were not enclosed with our same letter. It was our understanding at the time we wrote to you that these two items had already been sent to you under separate cover.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (HB)

Enclosures

WSMartin/foc 2-4-58
Retyped by HB 2-4-58
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/4	Martin	400
		130
		110
		100
		220
AIR MAIL		

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

Re: Docket No. DMEA 4483 - Tungsten
Mark II Mining Company, Inc.
North Meadow Mines
Tulare County, California

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Sincerely yours,

WSMartin

Chairman, Operating Committee

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

WSMARTIN/foc 2-4-58
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosure

8623

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS

DL = Day Letter

NL = Night Letter

LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

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WSM

O REA408 NL PD AR=RENO NEV 3=

1958 FEB 3 PM 9 14

OPERATING COMMITTEE=

DEFENSE MINERALS EXPLORATION ADMN INTERIOR BLDG

RE URLET JAN 29 DOCKET NUMBER DMEA-4483 TUNGSTEN MARK II MINING CO NEITHER ITEM FOUR COLLINS LETTER JANUARY 17TH TO SECRETARY NOR ITEM FIVE ROYCE HARDYS REPLY JANUARY 24 ENCLOSED COULD YOU PLEASE SEND AIR MAIL=

S RICKER==

29 DMEA-4483 II 17 24=.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 4 1958

DATE	INITIALS	CODE
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	WSM	400

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/28	Chapman	400
1/28	Martin	400
1/29	[illegible]	130
1/28	Johnson	110
29	Hittendorf	100
1/30	[illegible]	220
		400

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

JAN 29 1958

Re: Docket No. DMEA 4483 - Tungsten
Mark II Mining Company, Inc.
North Meadow Mines
Tulare County, California

Dear Mr. Ricker:

Copies have been sent to you of the following correspondence regarding the subject application denied September 27, 1957:

1. Letter of January 14, 1958, from James V. Collins, Attorney for Mark II Mining Company, to Senator Richard L. Neuberger.

2. Senator Neuberger's letter of January 17, 1958, to the Administrator.

3. Mr. Mittendorf's reply of January 29, 1958, to the Senator.

4. Mr. Collins' letter of January 17, 1958, to the Secretary.

5. Mr. Royce A. Hardy's reply of January 24, 1958, to Mr. Collins.

For this application and its predecessors we have a number of field examination reports available, and the information therein has not seemed to us to justify Government participation in an exploration project on the captioned claims. There also seem to be enough data to form the basis of our reconsideration. We would, however, appreciate having any remarks you may now care to make on Mr. Collins' statements, or any other pertinent questions.

review

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/6)

APPROVED:

Frank D. Lamb (2/6)
Member, Bureau of Mines

Thor H. Kiilsgaard (2/6)
Member, Geological Survey

WSMARTIN/foc 1-28-58
cc to: Admr. R. File
Oper. Comm.
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosures

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/27	Martin	400
1/29	Selbrig	130
1/29	Lamb	130
1/29	Ridgeway	130
1/28	Johnson	110
"	Northcutt	100
		220

JAN 29 1958

Hon. Richard L. Neuberger
United States Senate
Washington 25, D. C.

Dear Senator Neuberger:

As suggested in your letter of January 17, 1958, with its attached copy of a letter of January 14, 1958, sent to you by Mr. James V. Collins, Attorney for the Mark II Mining Co., Inc., we are reviewing in its entirety that company's application for exploration aid on its mining claims in the Sequoia National Forest, Tulare County, California. Our file number in this instance is Docket No. DMEA 4483 - Tungsten.

Another applicant, Pacific Star Mines, Inc., had previously submitted two applications, dated June 26, 1951, and August 19, 1952, covering the same property. Both of these earlier applications were denied because it was concluded that the ore showings were too small and too low grade to justify Government participation in their exploration.

Subsequently, the Mark II Mining Co., Inc., became interested in the property and explored the surface by open-cut excavations, bulldozer trenches, with a small amount of underground work. On September 20, 1956, that company requested aid estimated to cost $16,800.00, for core drilling for tungsten ore in a tactite occurring along and near the contact between granodiorite and meta-sedimentary rocks. The property was reexamined on May 3 and 4, and August 15, 1957. By letter of September 27, 1957, the application was denied because the spotty nature, small size and lack of continuity of mineral occurrences indicated that the probability of disclosing significant ore reserves was not sufficiently promising to justify Government participation.

We are also investigating the additional information provided in Mr. Collins' above-mentioned letter, which we are returning as you requested.

PRS 5426

8623

On completion of our review, we will promptly inform you whether our denial of September 27, 1957, can be reconsidered and a project approved.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

WSMartin/foc
1-27-58
cc to: Docket
Code 400
MDM
MR
DL
DCCO
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS
Secretary's Reading File

MARK II MINING COMPANY INC.
222 S. W. OAK ST. • PORTLAND 4, OREGON • CAPITOL 2-2894

ARTHUR E. HOUGHAM—PRESIDENT
ABE ALTMAN—SECRETARY-TREASURER
JAMES V. COLLINS—DIRECTOR
ALVAH C. WARREN, JR.—DIRECTOR

COPY

53J-3
Sgd 1/24
also 5426 to Newberger

January 17, 1958

Signed 1-29

INTERIOR DEPT.
RECEIVED
JAN 30 1958
SECRETARY'S
IMMEDIATE
OFFICE

Mr. Fred A. Seaton
Secretary of Interior
Dept. of Interior Bldg
Washington, D. C.

Dear Sir:

In Compliance with the recommendation as set forth by Mr. C. O. Mittendorf as of November 18, 1957 to Senator Richard L. Newberger: We hereby request that the application of the Mark II Mining Company Inc. of 222 S.W. Oak Street, Portland 4, Oregon, Docket # DMEA 4483(Tungsten) be reconsidered in its entirety and that the loan as requested from the D. M. E. A. be granted.

Sincerly

James V. Collins

Attorney for Mark II Mining Company, Inc.

Copy of letter from C. O. Mittendorf sent to Senator Richard L. Neuberger enclosed. — not enclosed. Initial letter to " " " by Collins enclosed

January 14, 1958

Senator Richard Neuberger
Senate Office Building
Washington, D.C.

Dear Senator Neuberger:

In Re our conversation during your recent stay in Oregon I, on behalf of the Mark II Mining Company, submit the following information:

Approximately two years ago a group of Portland people became interested in certain mining properties located in Southern California. The properties are approximately 85 miles north and east of Bakersfield. They are more specifically located in the Tulare Mining District. The Properties are known as the North Meadows Claims and the exact location on the mining maps is called Sherman Peak. An Oregon corporation was formed for the purpose of purchasing all or a part of the above described properties. Approximately 250 people including an estimated 130 policemen become stock holders in the company. The average amount held by each was approximately $175 worth of stock. As of today we have invested in excess of 340,000 towards the improvement and development of these claims. We have had two geologists on the property at our own expense, both having given to us excellent reports on the possibility of large tungsten deposits. To my own knowledge the government has had five geologists visit our operation. I personally talked with each of these five men at the time they inspected the property and in each instance every one of them was very optimistic about the potentiality of Tungsten deposits. The last of these geologists to examine the property was Mr. Rosco Smith who heads the Bureau of Mines Office for California and he in my presence and the presence of other officers of the company stated that in his opinion our application for a D.M.E.A. loan should and would be granted. I have been in

contact many times with Mr. Spiengler Richert who heads the D.M.E.A. Western Division Offices in Reno. Mr. Richert informed me that the recommendation for approval was made through his offices; based upon findings of the government men who had actually been on the property. Mr. Richert told me that he felt sure the property merited the loan and that it would in fact be granted. I also talked with Mr. Martin of Washington, D.C. who had charge of our loan application in the D.M.E.A. offices there, and he, too, seemed very optimistic about the possibility of approval. This conversation took place with Mr. Martin some five or six weeks after the favorable recommendation had gone in from the Reno office. The rest of the action taken by the D.M.E.A. has already been called to your attention and I believe is a part of your files.

It is our sincere belief that these properties merit the granting of a D.M.E.A. loan, and we feel that the loan was rejected for some reason unknown to us and certainly not upon the reason stated in the letter of rejection. It being impossible for our company to receive a copy of the government reports, we are hereby requesting you to ask for a copy of the reports from the D.M.E.A. and in the event that they will not submit a copy to you for public inspection then that you request a copy for the private use of your offices.

May I thank you again personally and also on behalf of our company for your effort in our behalf.

Sincerely,

James V. Collins,
Attorney for Mark II Mining Company

jc/bc

JAMES E. MURRAY, MONT., CHAIRMAN
CLINTON P. ANDERSON, N. MEX.
HENRY M. JACKSON, WASH.
JOSEPH C. O'MAHONEY, WYO.
ALAN BIBLE, NEV.
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GORDON ALLOTT, COLO.

RICHARD L. CALLAGHAN, CHIEF CLERK

United States Senate

COMMITTEE ON
INTERIOR AND INSULAR AFFAIRS

January 17, 1958

PRS
JAN 21 1958 5426

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MDM
COPY OF LETTER FURNISHED	
MR DL	
SEND REPLY COPY TO ABOVE	

Cross reference
PRS 5353

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Mittendorf:

I am enclosing a copy of a letter I recently received from Mr. James V. Collins, Attorney at Law, 400 Loyalty Building, Portland, Oregon, regarding the loan application of the Mark II Mining Company with the Defense Minerals Exploration Administration.

While I am not personally acquainted with the facts Mr. Collins mentions in his letter, it is my hope that you and your associates can carefully review and reconsider the application for a loan by the Mark II Company. Mr. Collins mentions that the Mark II properties were inspected by Mr. Splangler Rickert who heads the D.M.E.A. Western Division Office in Reno, Nevada, and the property was found to have sufficient mineralization for a loan.

I would appreciate a report providing me with considerable detail relative to the application and why your Administration has disapproved their loan application. Please return to me Mr. Collins' letter with your reply.

With best wishes, I am,

Sincerely,

Dick Neuberger

Richard L. Neuberger
United States Senator

RLN;lfw
Encl.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 21 1958

DATE	INITIALS	CODE
1/21	C	220
	WSM	400

JAMES V. [illegible]
ATTORNEY AT LAW
CAPITOL [illegible]
400 LOYALTY [illegible]
PORTLAND 4, OREGON

January 14, 1958

[illegible]enator Richard Neuberger
[illegible] Office Building
[illegible]ington, D.C.

[illegible] Senator Neuberger:

[illegible] our conversation [illegible] request [illegible] behalf of the Mack II [illegible] company, [illegible] information:

Approximately two years ago a group of Portland people [illegible] interested in certain mining properties located in [illegible] California. The properties are approximately [illegible] north and east of Bakersfield. They are more [illegible] located in the Tulare Mining District. The [illegible] known as the North Meadows Claims and the exact [illegible] the mining maps is called Sheep Peak. An Oregon [illegible] was formed for the purpose of purchasing [illegible] of the above described properties. Approximately [illegible] including an estimated 150 businessmen became [illegible] in the company. The [illegible] held [illegible]

[illegible] of $40,000 [illegible] development of these claims. [illegible] having given [illegible] property at our own expense, [illegible] reports as the possibility of large tungsten [illegible] To my own knowledge [illegible] has [illegible] visit our operations [illegible] these five men at the [illegible] inspected [illegible] instance every one [illegible] the potentiality of Tungsten [illegible] geologists to examine the property was [illegible] the Bureau of Mines [illegible] California [illegible] presence and the presence [illegible] stated that in his opinion our application [illegible] there should and would be [illegible]

[illegible] with Mr. [illegible] Division Of [illegible] the [illegible] recommend[illegible] based [illegible] been on the [illegible] the propert[illegible] granted. [illegible] [illegible], D.C. who had [illegible] offices the[illegible] [illegible]

[illegible] recommendation [illegible] taken [illegible] attention and [illegible]

It is our sincere belief [illegible] of a D.M.E.A. loan, [illegible] reason [illegible] in the le[illegible] company [illegible] [illegible] the D.M.E.A. [illegible] to you for [illegible] this only [illegible] [illegible] office.

[illegible]

DMEA
FILE COPY
Surname:

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

Martin
Selfridge
Holladay

JAN 24 1958

Dear Mr. Collins:

As requested in your letter of January 17, 1958, our Docket No. DMEA 4483 - Tungsten, covering the application of the Mark II Mining Co., Inc., 222 S. W. Oak Street, Portland 4, Oregon, for exploration aid from Defense Minerals Exploration Administration, will be reviewed in its entirety. On completion of this review, we will promptly inform you whether our denial of September 27, 1957, can be reconsidered and a project approved.

Sincerely yours,

(sgd) Royce A. Hardy

Secretary of the Interior

WSMartin/foc 1-23-58
cc to: Docket
Code 400
Secretary's File
" Read. File
MDM
MR
DCCO
DL
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, GS

Mr. James V. Collins
Attorney for Mark II Mining Company Inc.
222 S. W. Oak Street
Portland 4, Oregon

The Company name appears on application as: "Mark II Mining Co., Inc." The Company name on letterhead of 1/17/58, appears as: "Mark II Mining Company Inc."

FRS 5353

MARK II MINING COMPANY INC.
222 S. W. OAK ST. • PORTLAND 4, OREGON • CAPITOL 2-2894

ARTHUR E. HOUGHAM—PRESIDENT
ABE ALTMAN—SECRETARY-TREASURER

JAMES V. COLLINS—DIRECTOR
ALVAH C. WARREN, JR.—DIRECTOR

PRS

January 17, 1958 JAN 20 1958 5353

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MR
COPY OF LETTER FURNISHED	
MR	
SEND REPLY COPY TO ABOVE	

Mr. Fred A . Seaton
Secretary of Interior
Dept. of Interior Bldg
Washington, D. C.

Dear Sir:

In Compliance with the recommendation as set forth by Mr. C; O. Mittendorf as of November 18, 1957 to Senator Richard L. Neuberger: we hereby request that the application of the Mark II Mining Company Inc. of 222 S. W. Oak Street, Portland 4, Oregon, Docket # DMEA 4483(Tungsten) be reconsidered in its entirety and that the loan as requested from the D.M.E.A. be granted.

Sincerly
James V Collins
Attorney for Mark II Mining Company Inc.

Copy of letter from C. O. Mittendorf sent to Senator Richard L. Neuberger enclosed.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE
1/20	C	220
	WSM	400

COPY

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

November 18, 1957

Honorable Richard L. Neuberger
United States Senate
Washington 25, D. C.

Dear Senator Neuberger:

By recent letter, your Assistant, Mr. Lloyd Tupling, requested a report on the application for exploration assistance submitted to Defense Minerals Exploration Administration by Mark II Mining Company, Inc., 222 S. W. Oak Street, Portland 4, Oregon, our Docket No. DMEA 4483.

Enclosed is a copy of our letter of September 27, 1957, giving the above mentioned company our reasons for advising that its application was denied. The individual reports, however, upon which our conclusions are based, are for Government use only, and therefore cannot be made available to the applicant.

With respect to the denial, two procedures are available to the applicant company. If further work on the property has disclosed a substantial quantity of new information that might justify Government participation in the exploration project applied for, or some modification thereof, the request for reconsideration can be made directly to DMEA, and will have prompt consideration.

Also, with or without significant new information, the applicant can address an appeal directly to the Secretary of the Interior, and no particular form is prescribed for such communications.

Sincerely yours,

Signed - C. O. Mittendorf
Administrator

Enclosure:

Mr. Martin

Summary - Only expresses an opinion but does not give reasons for denial.

Spotty mineralization, small size and a lack of continuity of ore lenzes.

Is ore minable at $30.00 per unit price? That is, would this pay cost of mining and milling?

TE

(Please save this note)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/18	Martin	400
	Rufin	140
	[illegible]	710
	[illegible]	100
		220

NOV 18 1957

Hon. Richard L. Neuberger
United States Senate
Washington 25, D. C.

Dear Senator Neuberger:

By letter of November 12, 1957, your Assistant, Mr. Lloyd Tupling, requested a report on the application for exploration assistance submitted to Defense Minerals Exploration Administration by Mark II Mining Company, Inc., 222 S. W. Oak Street, Portland 4, Oregon, our Docket No. DMEA 4483.

Enclosed is a copy of our letter of September 27, 1957, giving the above mentioned company our reasons for advising that its application was denied. The individual reports, however, upon which our conclusions are based, are for Government use only, and therefore cannot be made available to the applicant.

With respect to the denial, two procedures are available to the applicant company. If further work on the property has disclosed a substantial quantity of new information that might justify Government participation in the exploration project applied for, or some modification thereof, the request for reconsideration can be made directly to DMEA, and will have prompt consideration.

Also, with or without significant new information, the applicant can address an appeal directly to the Secretary of the Interior, and no particular form is prescribed for such communications.

WSMartin/foc 11-18-57
cc to: Docket
400
DCCO
Sec'y.Read. File
DL
MR
MDM
FT. REG. II

Enclosure

Sincerely yours,

C. O. Mittendorf

Administrator

FROM SOLICITOR

PRS 3416

NOV 18 1957

FOR SIGNATURE

8623

JAMES E. MURRAY, MONT., CHAIRMAN
CLINTON P. ANDERSON, N. MEX.
HENRY M. JACKSON, WASH.
JOSEPH C. O'MAHONEY, WYO.
ALAN BIBLE, NEV.
RICHARD L. NEUBERGER, OREG.
JOHN A. CARROLL, COLO.
FRANK CHURCH, IDAHO
GEORGE W. MALONE, NEV.
ARTHUR V. WATKINS, UTAH
HENRY DWORSHAK, IDAHO
THOMAS H. KUCHEL, CALIF.
FRANK A. BARRETT, WYO.
BARRY GOLDWATER, ARIZ.
GORDON ALLOTT, COLO.

RICHARD L. CALLAGHAN, CHIEF CLERK

United States Senate

COMMITTEE ON
INTERIOR AND INSULAR AFFAIRS

November 12, 1957

PRS
NOV 13 1957 3416

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MDM
COPY OF LETTER FURNISHED	
MR / DL	
SEND REPLY COPY TO ABOVE	

Honorable C. O. Mittendorf
Administrator,
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Mittendorf:

Senator Neuberger's Portland Office has been informed that the loan application of the Mark II Mining Company of Portland, No. 4483, has been denied. The Senator would appreciate having a copy of the report on this application, and would also like to know if any appeal procedure is available to the applicant company.

Sincerely,

Lloyd Tupling

Lloyd Tupling
Assistant to
Richard L. Neuberger, U.S.S.

LT:cag

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 13 1957

DATE	INITIALS	COPY
11/13	C	220
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18	Com	100

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9-17	Chapman	400
9-17	Martin	400
9/23	Jeffrey	130
	Lasuk	
	Nelson	
9/27	Johnson	110
"	Mittendorf	100
		220

SEP 27 1957

Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

Re: Docket No. DMEA 4483 - Tungsten
North Meadow Mines
Tulare County, California

Gentlemen:

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 circumstances we regret to inform 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 9-17-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

Summary

9/17/57 [illegible]

DMEA Form 7
(12-56)

September 17, 1957

September 17, 1957

OFFICIAL FILE COPY

Date	Surname	Code
9-18	Chapman	400
9-18	Martin	400
		140

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Three applications for exploration assistance on the same property.
Docket No. DMA-1844X-Tungsten, denied
Docket No. DMEA 2673 - Tungsten, denied
Docket No. DMEA 4483, Contract recommended.
Pacific Star Mines, Inc.
Pacific Star Mines, Inc.
Mark II Mining Company, Inc.
Tulare County, California

On June 26, 1951, the Pacific Star Mines, Inc., made an application for exploration assistance to build access roads and drive tunnels to cost $80,000.00. The application was denied without a field examination. Data in the application itself indicated that the ore bodies were too small and low grade.

On August 19, 1952, the Pacific Star Mines, Inc., made another application for exploration assistance to explore for tungsten ores with about 250 feet of drifting and crosscutting at an estimated cost of $18,900.00. After a field examination the Field Team recommended denial because of indicated small ore bodies and low grade of ore.

On September 20, 1956, the Mark II Mining Company, Inc., made an application for exploration assistance to diamond drill in four areas at an estimated cost of $16,800.00
A Field Team report of June 17, 1957, recommended the bulldozing of access roads and drill sites and 7 diamond drill holes in four areas at an estimated cost of $13,063.00
Work by the Applicant had shown ore in four areas, estimated by the Field Team as follows:

Area	Measured	Indicated	Inferred	Total	Average grade weighted, percent
No. 1	800 tons	6,250 tons	20,000 tons	27,050 Tons	0.70
No. 2		200 tons	7,000 tons	7,200 Tons	0.53
No. 3			8,000 tons	8,000 Tons	0.15
No. 4			12,500 tons	12,500 Tons	0.10

The weighted average on Areas 1 and 2 is 0.67 percent WO_3, and of Areas 3 and 4 is 0.12 percent WO_3.

Please See Map on Vellum in Pocket

8623

On July 23, 1957, a letter was written to the Field Team requesting further data on the ore bodies. The Applicant advised the Field Team of further discoveries and another examination was scheduled. On August 15, 1957, an examination was made by Roscoe M. Smith, Geological Survey, accompanied by members of the Applicant's company. The Field Team on this re-examination recommend a small drilling program as follows:

Bulldozing for access roads and drill sites and diamond drilling as follows:

Area No. 1, Diamond drilling, 2 holes	375 feet
Area No. 2, Diamond drilling, 1 hole	125 feet
Area No. 3, Diamond drilling, 1 hole	125 feet
Total drilling	625 feet

Estimated cost of project	$7,955.25
Government participation	5,966.44

While the measured, indicated and inferred ore bodies may be significant to the Applicant, this Division does not believe that significant ore bodies of a tonnage and grade could be developed to warrant Government participation.

Applicant:

Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

Property Ownership:

The property consists of four unpatented lode mining claims recorded at Visalia, Tulare County, California, as follows:

Claim	Book No.	Page No.
Meta No. 1	1525	337
Meta No. 2	1525	339
North Meadow No.1	1525	343
North Meadow No.2	1525	345

Geology: Along the crest of southwestern flank of Sherman peak the ridge bedrock is concealed by a thin soil cover, but on the eastern flank the rock is well exposed. The area is underlain by sedimentary rocks of the Kernville series of Paleozoic age that have been intruded and metamorphosed by Isabella granodiorite of upper Mesozoic age. The tactite bodies formed along the contact contain mineralized zone.

The rocks of the area are cut by steep dipping, north-trending fractures which serve locally as structural control in ore deposition. The ore consists of scheelite in a gangue of garnet, epidote, quartz, clinopyroxenes and amphibole. The main ore showings are in four areas.

Development:

Area No. 1, Meta No. 1 claim, Open cut about 40 feet long, 25 feet wide and 1 to 25 feet deep, with a 20 foot adit driven northeastward to the hanging wall of the tactite zone.

Area No. 2, North Meadow No. 2 claim, adit 66 feet northward along the mineralized tactite zone, with a 35 foot winze at 47 feet from the portal; 60 feet of open cut trenching across the tactite zone at the portal of the adit and several small test pits above the adit.

Area No. 3, North Meadow No. 1 claim, open cut pit about 30 feet long, 15 feet wide and from 1 to 20 feet deep, with open cut exposures of the tactite zone along the road at 50 to 60 feet lower elevations.

Area No. 4, North Meadow No. 2 claim, shallow bulldozed area and road exposing tactite zone near the southern portion of this claim.

Ore Values and Tonnage:

On the examination of May 3 and 4, 1957, by R. G. Reeves and P. F. Taylor, Geological Survey, and J. D. Warne, Bureau of Mines, 8 samples were taken with the following results:

Sample No.	Description	Percent WO_3.
1.	1.0 ft. channel at top of 35 ft. winze North Meadow No. 2 claim	3.10
2.	8.6 foot channel from NE side of open pit. Meta No. 1 claim	0.08
3.	Grab of broken material from open cut, Meta No. 1 claim	0.71
4.	Grab of coarse material from open cut, Meta No. 1 claim	0.08
5.	2.4 foot channel across scheelite band, middle of face in open cut, North Meadow No. 1 claim	0.21
6.	2.0 foot channel across scheelite band, middle of face in open cut, North Meadow No. 1 claim	0.01
7.	2.5 foot channel across SW side of face in open cut. North Meadow No. 1 claim	0.07
8.	Grab of 50 ton ore stockpile at mill	0.02

p. 11

On the examination of August 15, 1957, the following samples were taken.

GS-1	Channel, 9 inches, East side open cut, North Meadow No. 1 claim	0.41
GS-2	Channel, 2 feet, same place as BM-5	0.56
GS-3	Grab 75 ton stock pile	0.51
GS-4	Channel, 7 inches. East side open cut North Meadow No. 1 claim	1.10

Roscoe M. Smith, Geological Survey, estimates the following tonnages.

Area No. 1, Measured 500 tons, indicated 500 tons and inferred 9,000 tons averaging 0.71 percent WO_3.

Area No. 2, Inferred reserves 500 tons averaging 2.00 percent WO_3.

Area No. 3, Inferred reserves, 1,000 tons averaging 0.5 percent WO_3. Grab of 75 tons from open cut in this area. 0.51 percent WO_3. X p. 4

Comments and Conclusions:

The Field Team on examinations of May 3 and 4, 1957, and of August 15, 1957, recommends small drilling programs. This Division believes that the application should be denied.

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

W. S. MARTIN

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

P. S. The ~~ore~~ mineralization occurs in spotty and irregular lenses, which lack continuity and have a large variation in grade. There is little indication that there would be a significant tonnage of minable ore.

With a $30.00 per unit price on tungsten trioxide, the tonnage that could be mined economically would be relatively small. An ore with a recoverable grade of 0.50 percent WO_3 would have a value of $15.00 per ton. Indications are that the tonnage that could be mined and milled for $15.00 per ton would be relatively small.

September 26, 1957

Mr. Collins called from Los Angeles asking about Mark II Mining Company, Inc. He was advised that application was being reviewed and we could not give him an answer.

EDC.

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 20 1957

DATE	INITIALS	CODE
9/21	C	220
		400

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

Memorandum

Date September 19, 1957

DMEA Docket No. 4483
DMEA Contract No. [illegible]
Commodity Tungsten
Name of applicant Mark II Mining Co, Inc.
Name of property North Meadow Claims
Location of property Tulare County, Calif.
Estimated cost of project

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

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

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

1. Date of subject document: Aug. 30, 1957 2. Date received by reviewer: Sept. 15, '57

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

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:
Two former applications have been denied.

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

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

10. Remarks: (Use back of page if necessary) Assuming that the subject memorandum report is to be considered as an application I agree with the Field Team that the modest project outlined is warranted.

R. W. Holliday
R. W. Holliday

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9/17 WSM | 400

IN REPLY REFER TO:

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

September 12, 1957
Re: DMEA 4483
Mark II Mining Company, Inc.
North Meadow Claims
Tulare County, California
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 referenced tungsten property has been the subject of three applications for assistance in doing exploratory work, essentially diamond drilling:-

Year	Applicant	DMEA No.	Recommendation
1951	Pacific Star Mines	1844X	Denial
	" " "	Access road loan	?
1952	" " "	2673	Denial
1956	Mark II Mining Co.	4483	Conditional approval

Between applications work was done that changed conditions and warranted re-examinations.

The examiners under the present application, 4483, recommended a drilling program, the estimated cost of which is $13,063.00. I concurred with the recommendation as to work, but not the reserve estimate.

On re-examination, prompted by a letter concerning reserves signed by the Acting Chairman of the Operating Committee, a new recommendation is made involving somewhat less drilling. The revised estimate of cost is $7,955.25.

Sampling recently done supports the grade estimates whereas the sampling in 1956 did not, but the tonnages appear to be out of line, as the material of the greatest width sampled, 24" (sample GS-2), assayed only 0.56% WO_3.

I assume the faces, which look good to the examiners, cannot be sampled so as to justify the tonnage figures, but in the opinions of the examiners, drilling is warranted, the drill cores to be in part

substitutes for cut samples. The odd good grade sample and the mill test, as reported by the applicant and accepted by the examiners, tend to support the opinions.

If a cheaper sampling job cannot be arranged, I concur with the latest recommendation, that is 625 feet of drilling.

N. E. Nelson

N. E. Nelson

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

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DATE	INITIALS	CODE
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		130
9/13	G	220
9/13	WBM	408

September 4, 1957

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4483 (Tungsten)
Mark II Mining Company, Inc.
North Meadow Claims
Tulare County, California

Enclosed are three copies of a memorandum of August 30, 1957, which is in reply to your letter of July 23, 1957 in respect to subject docket.

Due to illness, J. D. Warne could not accompany Mr. Smith during the supplementary field work. He and I concur in the suggestion outlined in the memorandum.

S. Ricker

Attachments.

9-13-57

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Mineral Deposits Branch
4 HOMEWOOD PLACE
MENLO PARK, CALIFORNIA

OFFICIAL FILE COPY DMEA RECEIVED SEP 9 1957		
DATE	INITIALS	CODE
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		220

August 30, 1957

Memorandum

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

From: Roscoe M. Smith

Subject: DMEA-4483 (Tungsten)
Mark II Mining Co., Inc.
North Meadow claims
Tulare County, California

Reviewed by
DMEA OPERATING COMMITTEE
9-13-57

In response to Mr. Martin's letter of July 23, 1957 in which questions about ore reserve estimates in the application report are raised, and also in response to a telegram from J. V. Collins informing us of new developments at the mine, I examined the property August 15, 1957, accompanied by A. E. Hougham, Abe Altman, and J. V. Collins. Four samples were cut, three from the new development at Area 3, and one from a 75-ton stockpile which was also taken from Area 3.

Although two former applications have been denied, subsequent exploration by the owners has exposed ore bodies of sufficient size and grade to indicate that a small project is warranted. Although there is no indication that there will ever be a large mine at these deposits, there is a fair chance that small, high-grade ore shoots may be discovered which will be of

considerable significance to the owners. There is some probability of duplicating the history of the adjoining properties east and west of this one along the same contact, where similar size ore shoots of exceptionally high grade were discovered.

The ore bodies that have been exposed are in Areas 1, 2, and 3. The largest ore body is in Area No. 1, but all of them are typically composed of alternate layers of ore and waste. The ore layers contain scheelite uniformly distributed throughout the tactite. These layers are bounded by parallel fractures which separate them from the layers of waste which commonly contain only specks of scheelite, but which must be mined with the ore. The ore layers compose about half of the ore shoot and contain one to two percent WO_3. In a few places the ore layers contain as much as 3 percent WO_3 for lengths of a few feet.

In Area No. 1 the ore body is 40 feet long and 25 feet wide and consists of eight layers of ore each about 20 inches wide, separated by layers of waste also 20 inches wide. The layers strike northwest and dip 60° NE. The owners report that the combined ore and waste from this deposit was milled at the property and that a recovery of 0.5 percent was made. The mill was found to recover 70 percent of the total values. On this basis the head values would have been 0.7 percent WO_3 and the individual ore layers,

assuming 50 percent waste, would have averaged 1.4 percent WO_3. Because the ore cannot be mined selectively, all of the tactite within the ore shoot is included in the reserve estimate. I estimate the reserves to be 10,000 tons averaging 0.7 percent WO_3, using a strike length of 40 feet, a width of 25 feet, and a depth of 100 feet. Of this 500 tons is measured ore to a depth of 5 feet, another 500 tons is indicated ore to a depth of 10 feet, and the remaining 9,000 tons is inferred. It is assumed that the grade will be about the same as that of the ore milled.

Area No. 2 reveals four small ore shoots exposed on the surface and one ore shoot exposed underground. All of these ore shoots are cut by faults but it is inferred that other ore shoots will be found along the strike of, and between, the faults. In the application report the examiners inferred that one-tenth of the volume of the tactite is ore averaging 0.5 percent WO_3, but this estimate appears to be generous. The largest ore shoot at the surface is inferred to contain 200 tons averaging two percent WO_3 in a block 10 feet long, 4 feet wide, and 50 feet deep. The ore shoot exposed underground contains indicated reserves of about 50 tons in a block 10 feet long, 1-1/2 feet wide, and 30 feet deep. A sample, BM-1, contained 3.1 percent WO_3, but the applicant's estimate of all of the material from the winze is two percent WO_3. It is inferred that at

at least two other ore shoots may be discovered in this area and that the total inferred reserves for Area No. 2 are 500 tons containing two percent WO_3.

Area No. 3 is the site of the most recent exploratory work. A new cut has been driven under the site of the original 10-foot cut. The new cut is 10 feet wide, 15 feet deep, and 20 feet long. Seventy-five tons of ore from this cut is stockpiled at the mill and a grab sample, GS-3, assayed 0.51 percent WO_3 and 0.015 percent Mo. The ore body is localized between two faults which strike northerly and dip 70° W. It is about 15 feet long, 8 feet wide, and is inferred to continue to a depth of 50 feet. Reserves of 1,000 tons averaging 0.5 percent WO_3 are inferred. Samples GS-1, GS-2, and GS-4 from ore layers 7 inches to 24 inches thick near the face of this cut contained 0.41, 0.56, and 1.10 percent WO_3. Here the ore layers are between fractures which are at right angles to the trend of the ore body and dip southerly opposite to the dip of the bedding.

Area No. 4 is the largest of the tactite areas, and contains a swarm of inclusions of tactite 2 to 20 feet across in granite. Near the center of the area about 90 percent of the body is tactite and near the edges about 50 percent is tactite. There are no outcrops of ore grade in this area and no ore reserves are inferred.

The applicant wishes to test the downward continuation of the ore bodies in Areas No. 1, 2, and 3 as cheaply as possible, and has proposed the following program of drill holes from the surface:

Area No. 1--Drill two flat holes underneath the ore body (fig. 3), the first 30 feet below the open pit, and the second, contingent upon the results of the first, 100 feet below the open pit. The location, direction, and inclination of the second hole should be subject to Government approval in advance.

Area No. 2--Drill one hole inclined -40 degrees to explore the tactite 30 feet south of the ore body in the winze. No drill station is required.

Area No. 3--One hole drilled at -30 degrees to test the downward continuation of the ore body exposed in the open cut at a depth of 30 feet below the cut.

Area No. 4--The applicant does not want to do any drilling in this area at the present stage of development.

A somewhat better drilling program could be devised by orienting the drill holes to cut the ore bodies more nearly at right angles, but because of the steepness of the terrain, the preparation of drill sites would be exceedingly costly. The principal ore shoots are large enough to provide a reasonably good target for

the proposed drill holes. In view of his wish to keep costs at a minimum, the applicant's program is well designed.

Proposed Exploration

Area No. 1	DD Hole 1	125 feet
	DD Hole 1A	250 feet
Area No. 2	DD Hole 2	125 feet
Area No. 3	DD Hole 3	125 feet
Total diamond drilling		625 feet

Exploration Costs

(1) Independent Contracts

(a) Bulldozing--to prepare drill sites, to be performed by the operator.

Moving in cost	$165.00
Prepare 2 drill sites, 1 day @ $125.00/day.	125.00
Moving out cost	165.00

(b) Diamond drilling, AX or larger, 625 ft. @ $7.25/ft. 4,531.25

Moving in and moving out cost. . . 500.00

Total $5,486.25

(2) Labor and Supervision

Supervisor-Engineer, 2 mos. @ $550.00/mo. $1,100.00

(3) Operating Materials and Supplies

2 mos. @ $125.00/mo. . . . . $ 250.00

(4) Operating Equipment

Total value	$7,600.00	
Depreciation, 2 mos. @ $127.00/mo.		$ 254.00

(5) Initial Rehabilitation

None	$ 0.00

(6) New Buildings, etc.

None	$ 0.00

(7) Miscellaneous

15 samples, to be assayed for WO_3, @ $5.00/ea.	$ 75.00	
Core boxes, etc.	125.00	
Payroll taxes, 15 percent of $1,100.00	165.00	
Transportation of labor and supplies, 2 mos. @ $200.00/mo.	400.00	
Repairs to trucks and operating equipment, @ $50.00/mo. . . .	100.00	
Contingencies	None	
Total		$ 865.00

Total estimated cost of the project	$7,955.25
Government participation at 75 percent	$5,966.44

The bid for diamond drilling, dated May 9, 1957, by the Continental drilling company and the moving costs were orally confirmed for 625 feet of drilling by Mr. R. F. Thies, manager, August 30, 1957.

Roscoe M Smith

$\frac{7955.25}{625}$ = $12.72/ft

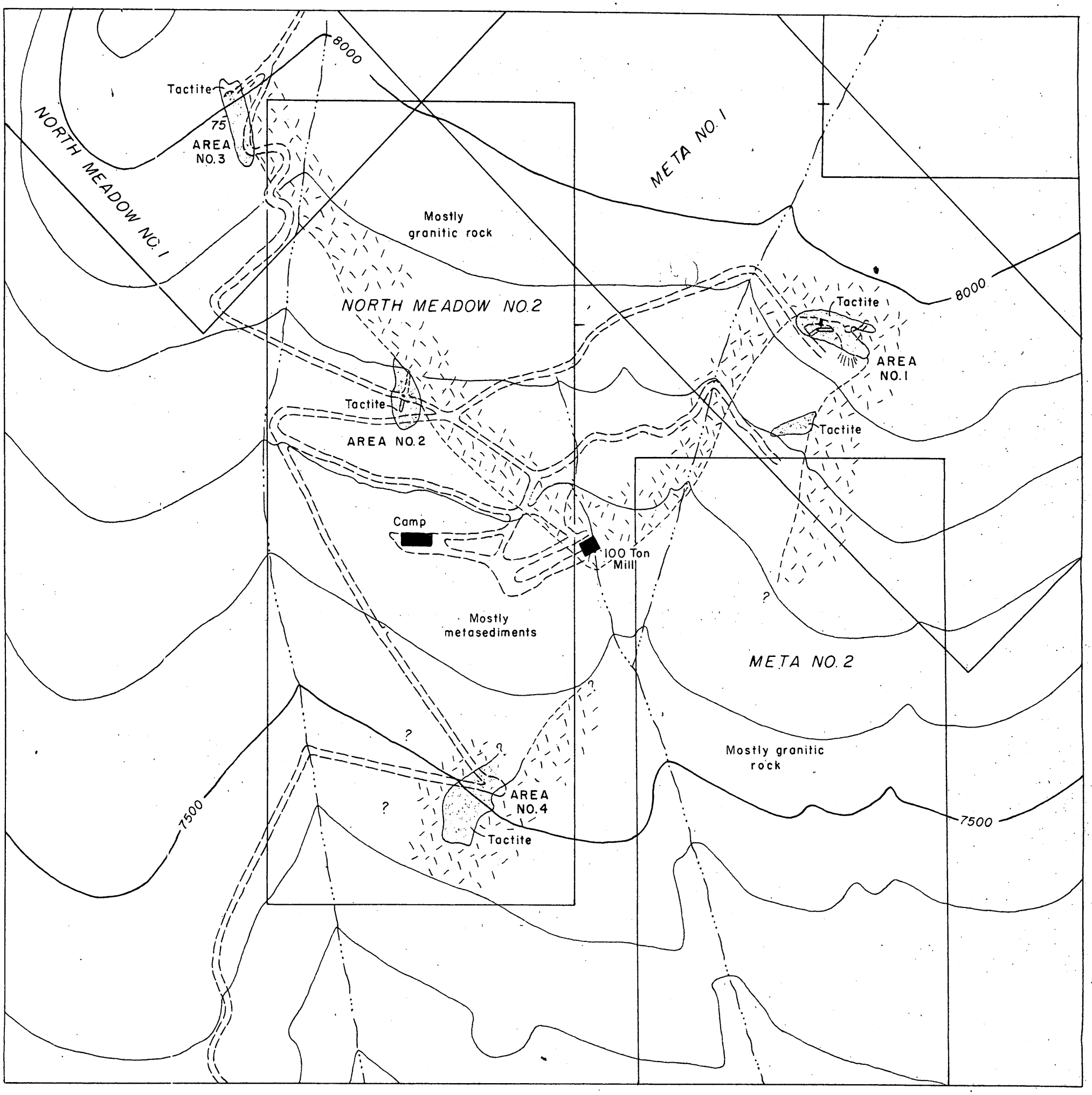

Figure 2. PROPERTY MAP, NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 200 400 600 Feet

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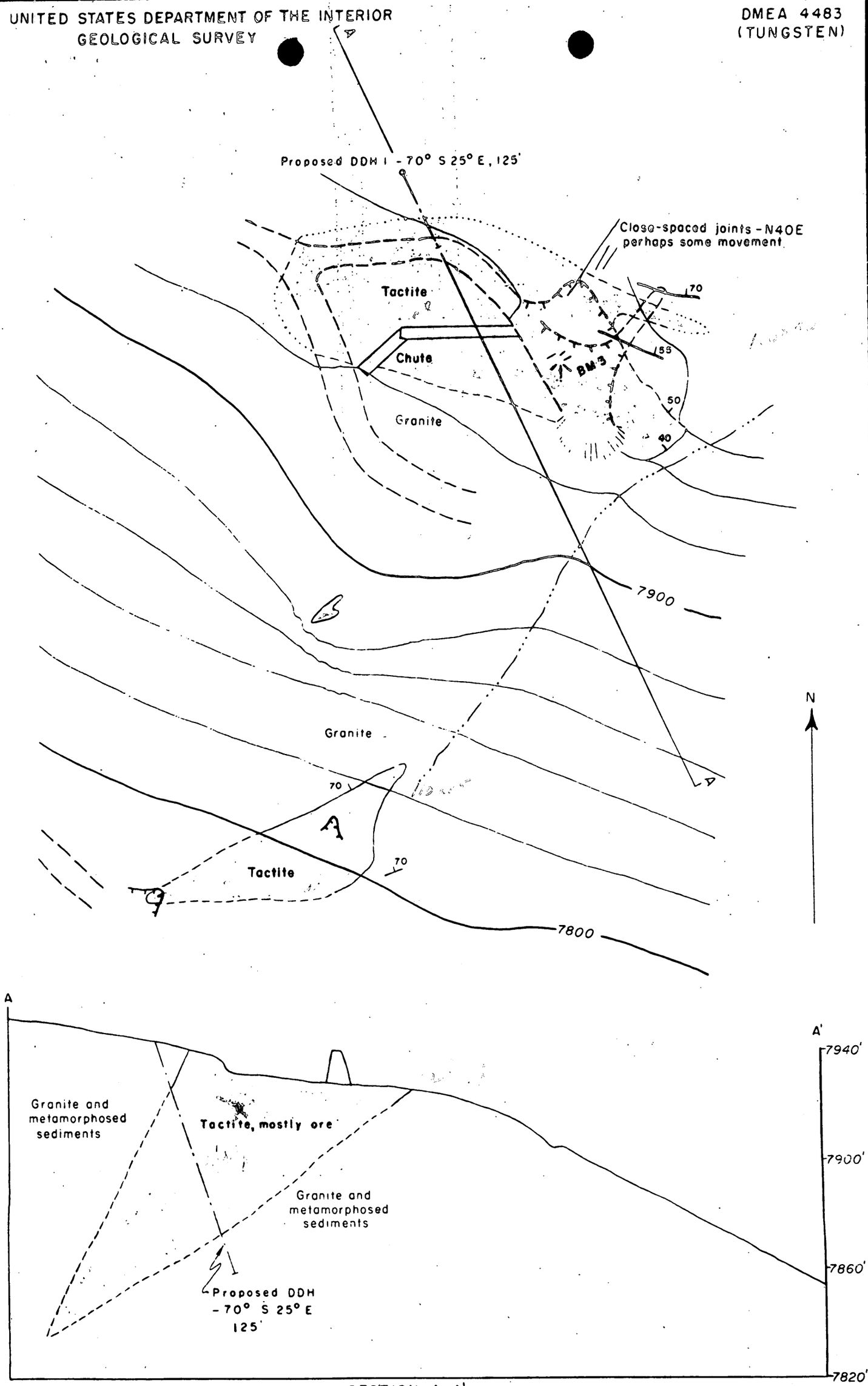
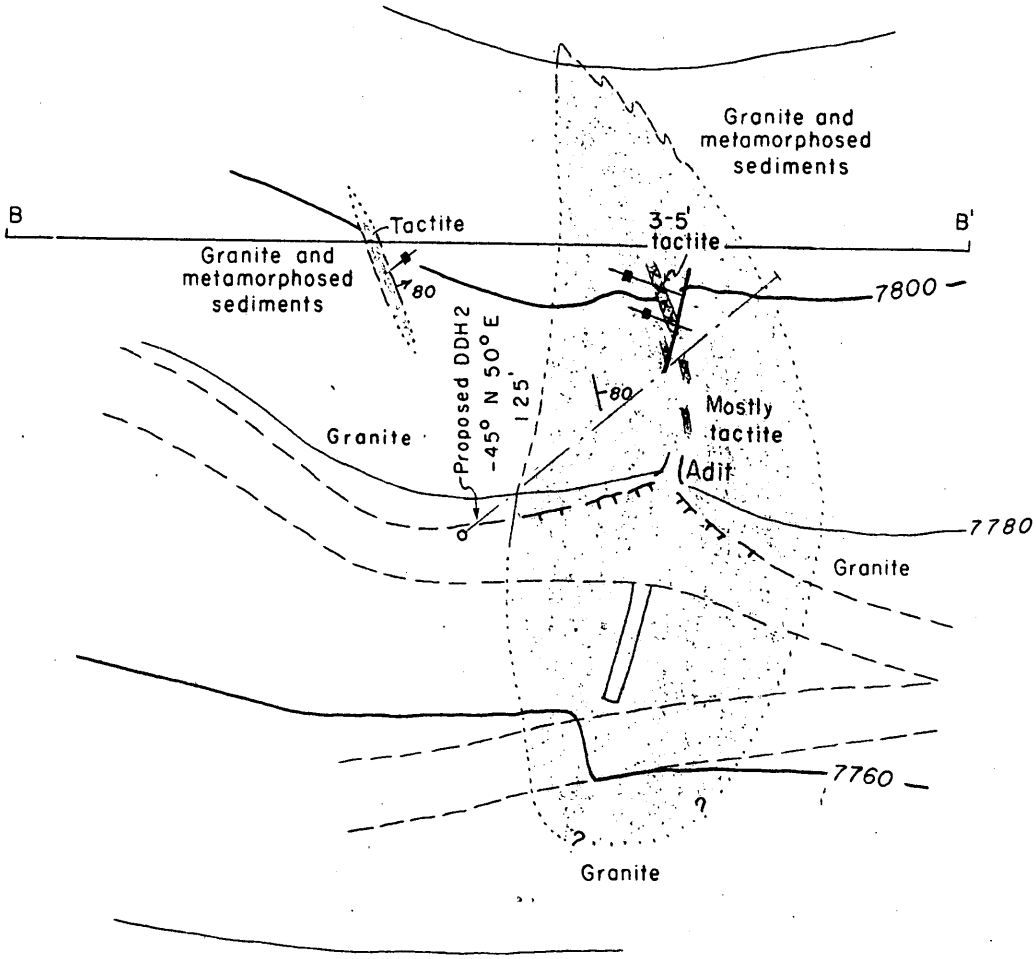
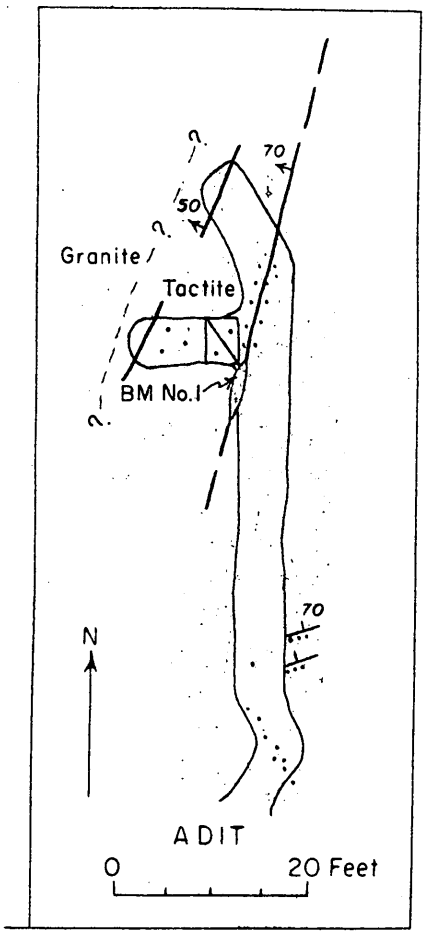
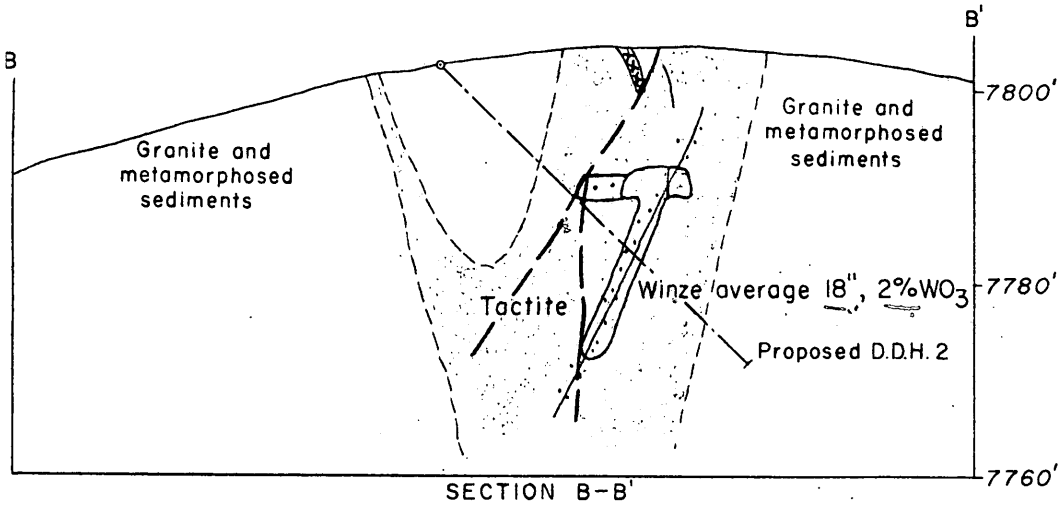


Figure 3. GEOLOGIC MAP AND SECTION, AREA NO. 1
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 40 80 120 Feet







Note:
∴ – Scheelite

See earlier Fig 4 showing another hole SE from same collar as NE hole.

Figure 4. GEOLOGIC MAP AND SECTION, AREA NO. 2
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 40 80 120 Feet

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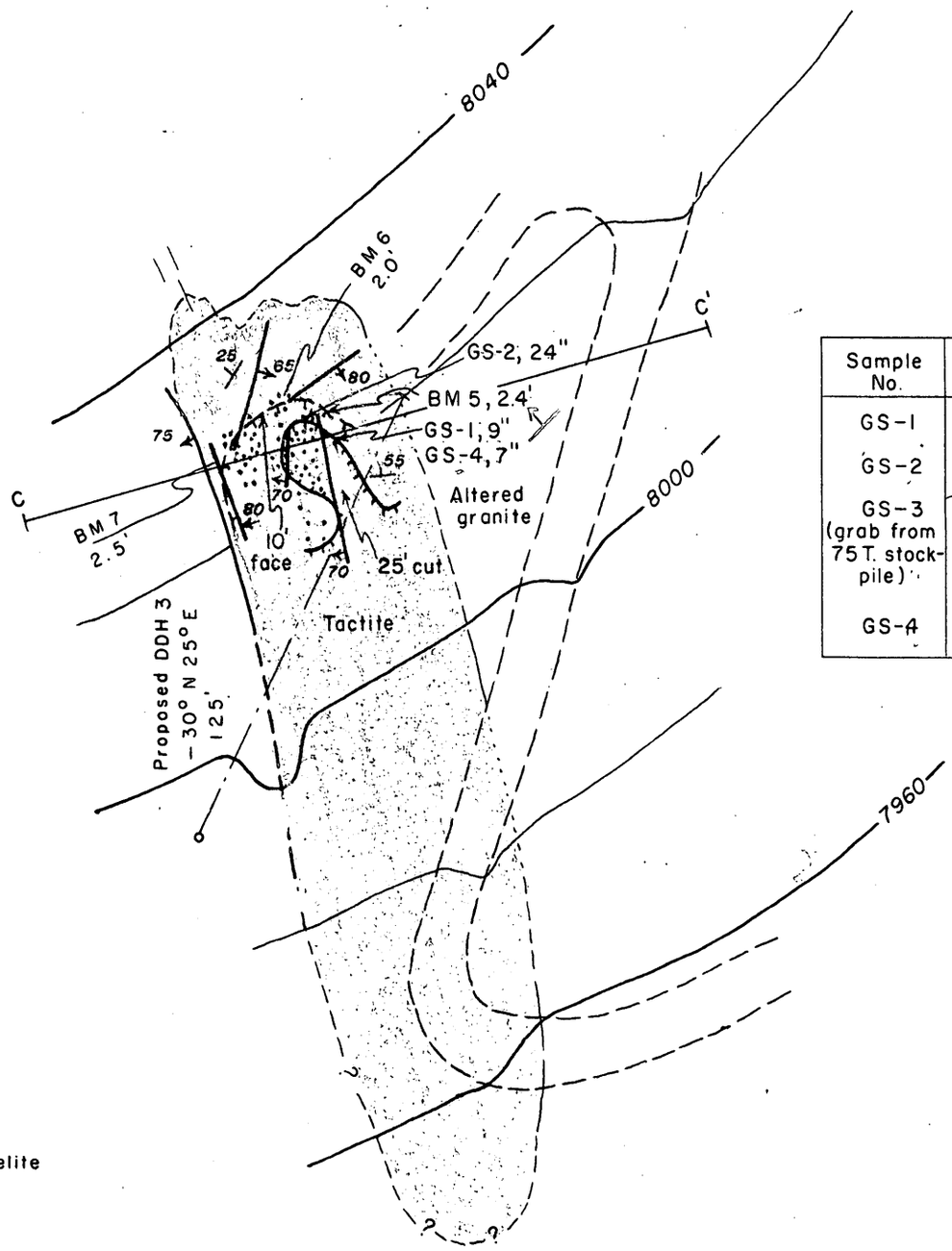
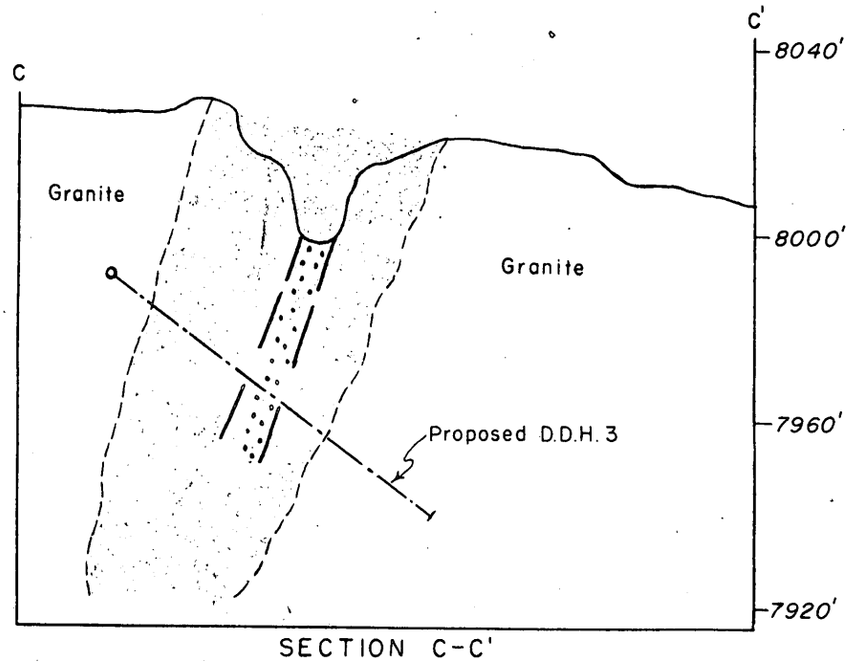
DATE	INITIALS	CODE



Sample No.	%WO_3	%Mo
GS-1	0.41	0.010
GS-2	0.56	0.015
GS-3 (grab from 75 T. stock-pile)	0.51	0.015
GS-4	1.10	0.020

Note:
∴ — Scheelite



SECTION C-C'

Figure 5. GEOLOGIC MAP AND SECTION, AREA NO 3
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 40 80 120 Feet

Teryanne

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WESTERN UNION

TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS

DL=Day Letter

NL=Night Letter

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OB194

O REA367 NL PD=RENO NEV 7=

1957 AUG 7 PM 5 56

W S MARTIN=OPERATING COMMITTEE DMEA

INTERIOR BLDG WASHDC=

=REURTEL DMEA 4483 GUNGSTEN, AT REQUEST OF J V COLLINS INFORMING US OF NEW DEVELOPMENTS AT MINE WE INTEND TO REEXAMINE AND SAMPLE ABOUT AUGUST 15 WILL THEN SEND COMMENTS YOUR LETTER JULY 23RD=

=S RICKER=.

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DMEA
RECEIVED AUG 8 1957

DATE	INITIALS	CODE
8/8	R.H.	220
8/8	WSM	400

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

7/29/57

James V Collins
Attorney
Director

Told him we were waiting for answer to letter but that it did not look good. Said if it were denial w/o prejudice we could always send men to look at new evidence. Asked about "mill to start with". He said that was the fault of the earlier operators and almost said that's how he got the property so cheap

WSM July 29, 1957

Hold

MF-200
(Revised June 1954)

Docket No. DMEA 4483

Commodity Tungsten

Contract No. Idm-E

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

EXPLORATION PROJECT CONTRACT[1]

It is agreed this ..... day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2]Mark II Mining Company, Inc
A. E. Hougham, President, Box 157, Kernville, California
Abe Altman, Secretary and Treasurer, 222 SW. Oak Street, Portland, Oregon.
,
whose mailing address is 222 SW. Oak Street, Portland. Oregon.
,
hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, and maps

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of California, County of Tulare, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] Owner See Annex I of [5] ..... in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] ....., [7] ....recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: none

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

of the land (lessor, seller, optionor, etc.), are attached, as follows: .....

.....

.....

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 8, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 8(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of .....Tungsten..... The work to be performed is described in Exhibit "A." The Operator on or before ..... shall commence the work, and on or before ....December 31, 1957..... (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall either have completed the work or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A."

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Independent contracts.*—To the extent that the allowable costs are estimated in Exhibit "A" with express reference to performance by independent contractors on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations), the work may be so performed; but if the reference in Exhibit "A" to any such independent contract requires the Government's approval thereof, payments under such contract will not be allowable costs unless the Government gives its written approval of the contract. Any such independent contract shall refer to some specific and identifiable part of the work, and shall be subject to all of the pertinent terms and conditions of this exploration contract; but the Government shall not be considered a party thereto, and its rights under this contract, including the right to terminate its contributions, shall not be affected thereby. Regardless of the provisions of any such independent contract and regardless of the Government's approval thereof, the Government will participate in payments to the independent contractor only on account of work performed in accordance with the provisions of this exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable.

(c) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $.11,400.00..... The Government shall contribute ..75.. percent of the allowable costs as they are incurred in a total sum not in excess of $.8,550.00.....: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work or not in excess of the amount of the Government's contribution to the cost of property which is or may become subject to disposal as provided in Article 9(c), whichever is greater. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 7(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. "Costs incurred" mean costs that have been paid or have become due and payable, or that in the opinion of the Government have become an obligation. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Estimated costs.*—(a) *Categories of costs.*—The allowable costs of the work to which the Government shall contribute are limited to those that are direct, reasonable, necessary, and that are estimated in Exhibit "A" by categories as specified in this article. If any category or subcategory is omitted from the estimate of costs, or if the word "none" is annexed to the listing thereof, costs under such category or subcategory are not allowable. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost, and any excess over the estimated total allowable cost of the work, shall not be allowable. Any excess over the estimate of any category, subcategory, or item, either as to requirement or related cost, not indicated as a maximum shall be allowable within the limit of the estimated total allowable cost of the work. To the extent that excesses over maximums other than the estimated total allowable cost of the work may be necessary for the performance of the work, the Operator shall incur such excesses for his own account without contribution by the Government; but except for any such necessary excesses in categories, subcategories, or items thereunder the Operator is not obligated to incur more than his agreed percentage of the estimated, total allowable cost of the work.

To the extent specified in this article or in Exhibit "A" the following categories, subcategories, and elements thereof are maximums; but if not so specified either here or in Exhibit "A" they are not maximums, and may be exceeded within the limit of the estimated total allowable cost of the work:

CATEGORY (1)—INDEPENDENT CONTRACTS.—Work to be performed under independent contracts (see Article 4(b)). The estimated total amount of this category and the estimated cost of each unit of work for performance under an independent contract are maximums.

CATEGORY (2)—PERSONAL SERVICES.

Subcategory (a)—Supervision.—All elements of this subcategory (number of supervisors, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)—Technical services.—All elements of this subcategory (number of technicians, periods of employment, rates of pay, and total) are maximums.

Subcategory (c)—Labor.

CATEGORY (3)—OPERATING MATERIALS AND SUPPLIES.—Includes such items as drill bits and steel, explosives, fuel, pipe, power, small tools costing less than $50 each, timber, track.

CATEGORY (4)—OPERATING EQUIPMENT.

Subcategory (a)—Rental.—The number of each object to be rented [6 mine cars, 1 truck], the rate of rental [$100 per month, $5 per hour], and the total of this subcategory are maximums.

Subcategory (b)—Purchases.—The estimated total of this subcategory is a maximum.

Subcategory (c)—Depreciation.—All elements of this subcategory (time periods, rate of depreciation, and subcategory total) are maximums.

CATEGORY (5)—INITIAL REHABILITATION AND REPAIRS.—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

Subcategory (a)—Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).—The estimated total of this subcategory is a maximum.

Subcategory (b)—Initial rehabilitation and repairs of operating equipment.—The estimated total of this subcategory is a maximum.

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article 9.

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

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

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

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

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

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

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

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—

(a) In Article 3, the words following the reference to Article 10 are deleted, and the following words are substituted: "shall have completed the work."

(b) In Article 6(a), that part of the last sentence in the first paragraph beginning after the semicolon is deleted.

(c) In Category 1 of Article 6(a), the phrase " the estimated cost of each unit of work" shall be construed to mean, for the purpose of this contract: " the average cost per foot of drilling."

(d) Categories 2 through 7 of Article 6(a) are deleted.

16—70617-1

(e) In Article 6(c), the words "Article 9" are changed to "Article 8."

(f) In addition to the cost of the work estimated in Exhibit "A" by categories of actual costs, the cost of work requirements specified in Exhibit "A" as "Fixed Unit Costs" are allowable costs of the project. The Government will contribute to the fixed unit costs as work units are performed. A "Fixed Unit Cost" is an agreed price for each unit of work to be performed regardless of costs incurred by the Operator, Costs set forth in Exhibit "A" include all allowable costs of the work to be performed under the contract.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By .....

.....
(Operator)

By .....

.....

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

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

EXPLORATION PROJECT CONTRACT
MARK II MINING COMPANY, INC.
DOCKET NO. DMEA-4483

ANNEX NO.L

The land referred to in Article 2 of the contract form is shown on attached figure 2, Property Map, North Meadow Mine, Tulare County, California. The property consists of four unpatnted lode mining claims, recorded as follows:

Claim Name	Book No.	Page No.
Meta No. 1	1525	337
Meta No. 2	1525	339
North Meadow No. 1	1525	343
North Meadow No. 2	1525	345

The Mark II Mining Company, Inc. is the owner of the property. The claims are in the California-Kernville Triangle, sections 15, 16, 21 and 22 T. 22 S., R. 33 E., M.D.B & M. Tulare County, California.

EXPLORATION PROJECT CONTRACT
MARK II MINING COMPANY, INC.
DOCKET NO. DMEA-4483

EXHIBIT "A"

Description of the Work

Attached maps are as follows:

Figure 1. Index Map of Kings and Tulare Counties, California
Figure 2, Property Map, North Meadow Mine, Tulare County, California
Figure 3, Geologic Map and Section, Area No. 1, North Meadow Mine, Tulare County, California
Figure 4, Geologic Map and Section, Area No. 2, North Meadow Mine. Tulare County, California
Figure 5, Geologic Map and Section, Area No. 3, North Meadow Mine, Tulare County, California.
Figure 6, Geologic Map and Section, Area No. 4, North Meadow Mine, Tulare County, California.

The work will consist of bulldozing access road and drill sites, drilling and blasting where necessary. This work shall be carried out by the Operator with company owned or rented equipment. Drill 7 diamond drill holes by Independent contract.

1. Bulldoze access roads and 7 drill sites for diamond drilling with a D-8 bulldozer or equivalent of another make. Estimated time 32 hours.

2. Drill and blast access roads and drill sites as necessary.

3. Diamond drill 7 holes not less than AX in size approximately as follows and as indicated on attached maps 3, 4, 5 and 6, The total drilling not to exceed 1,000 feet.

Area No. 1.

Meta No. 1 claim, drill one hole approximately 125 feet in length to explore below the scheelite mineralized zone exposed in the open cut. The dip and course to be approximately as shown on figure 3.

Area No. 2

North Meadow No. 2 claim, drill 2 holes aggregating aproximately 300 feet to explore below the scheelite mineralized zone exposed in the adit, winze and surface trenches. The dip, course and length of each hole to be approximatley as shown on figure 4.

Area No. 3

North Meadow No 1 claim, drill 3 holes aggregating approximately 425 feet to explore below the scheelite mineralized zone exposed in the open cut. The dip length and course of each hole to be approximately as shown on figure 5.

Area No. 4.

North Meadow No. 2 claim. drill one hole approximately 150 feet in length to explore below the mineralized tactite zone explored by the road and bulldozed area near the southern end of this claim. The dip and course to be approximately as shown on figure 6.

The work can be carried on concurrently. Estimated time 3 months.

The diamond drill cores to be stored in wooden core boxes.

Sample mineralized zones in diamond drill holes and assay for mercury.

ESTIMATED COST OF THE PROJECT

Actual Costs.

Category No. 1. Independent Contracts

Diamond drilling, 1,000 feet at $7.25/ft. Includes cementing and redrilling and/or reaming and casing.		$7,250.00

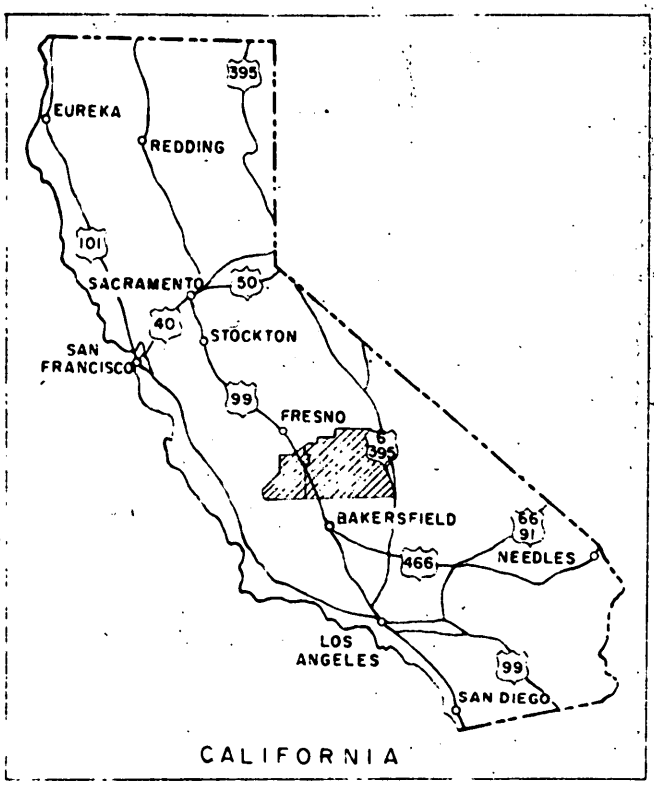
Fixed Unit Costs.

Incidental allowance 1/ for each foot of drilling completed, 1,000 feet at $3.90/ft.	$3,900.00	
Assaying 50 samples for WO_3 at $5.00 each	250.00	
Total estimated unit costs.		$4,150.00
Estimated total cost of the project	$11,400.00	
Government participation	8,550.00	

1/ Includes all costs whatsoever that are not included in the estimates for Category 1, Independent Contracts and for chemical analyses under Fixed Unit Costs and is in lieu of of all other costs, such as supervision, ~~[illegible]~~ payroll taxes, core boxes, materials and supplies, transportation, depreciation on Operators equipment, etc. which would otherwise be allowable under Categories 2 through 7 of the contract.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4483
(Tungsten)



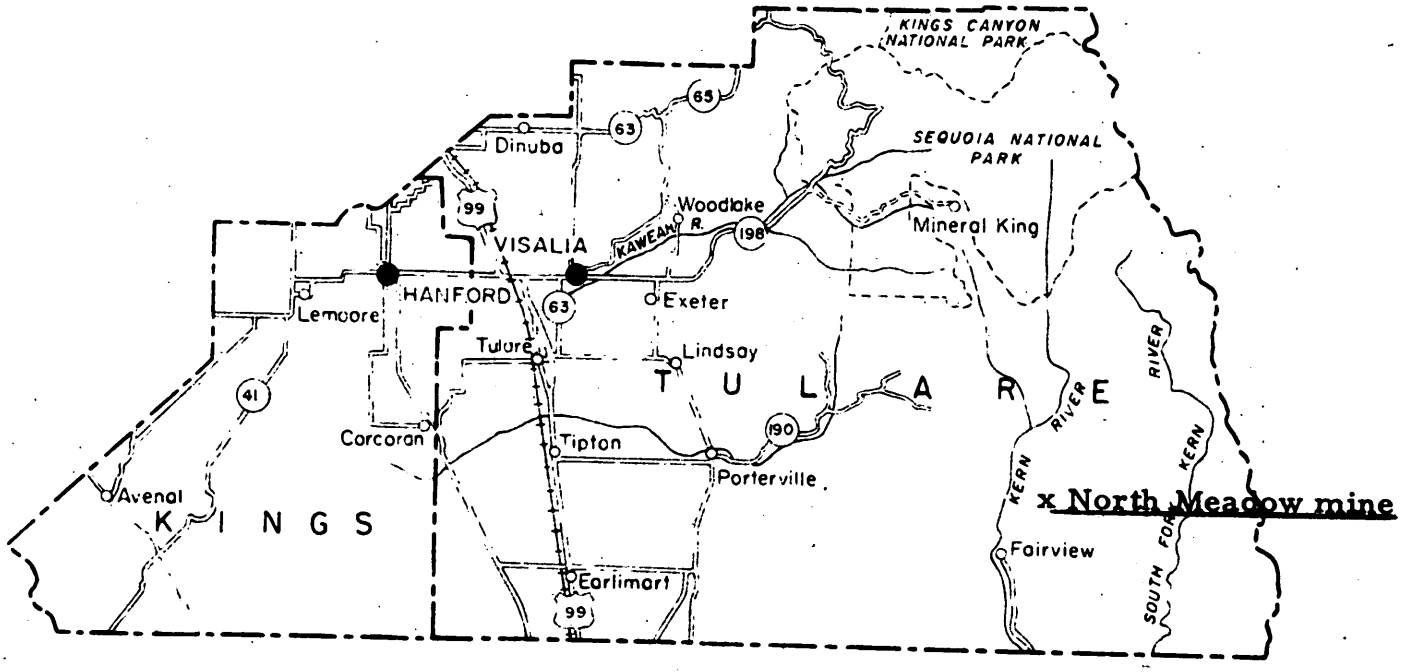


Figure I. INDEX MAP OF KINGS AND TULARE COUNTIES, CALIFORNIA

0 20 40 60 Miles

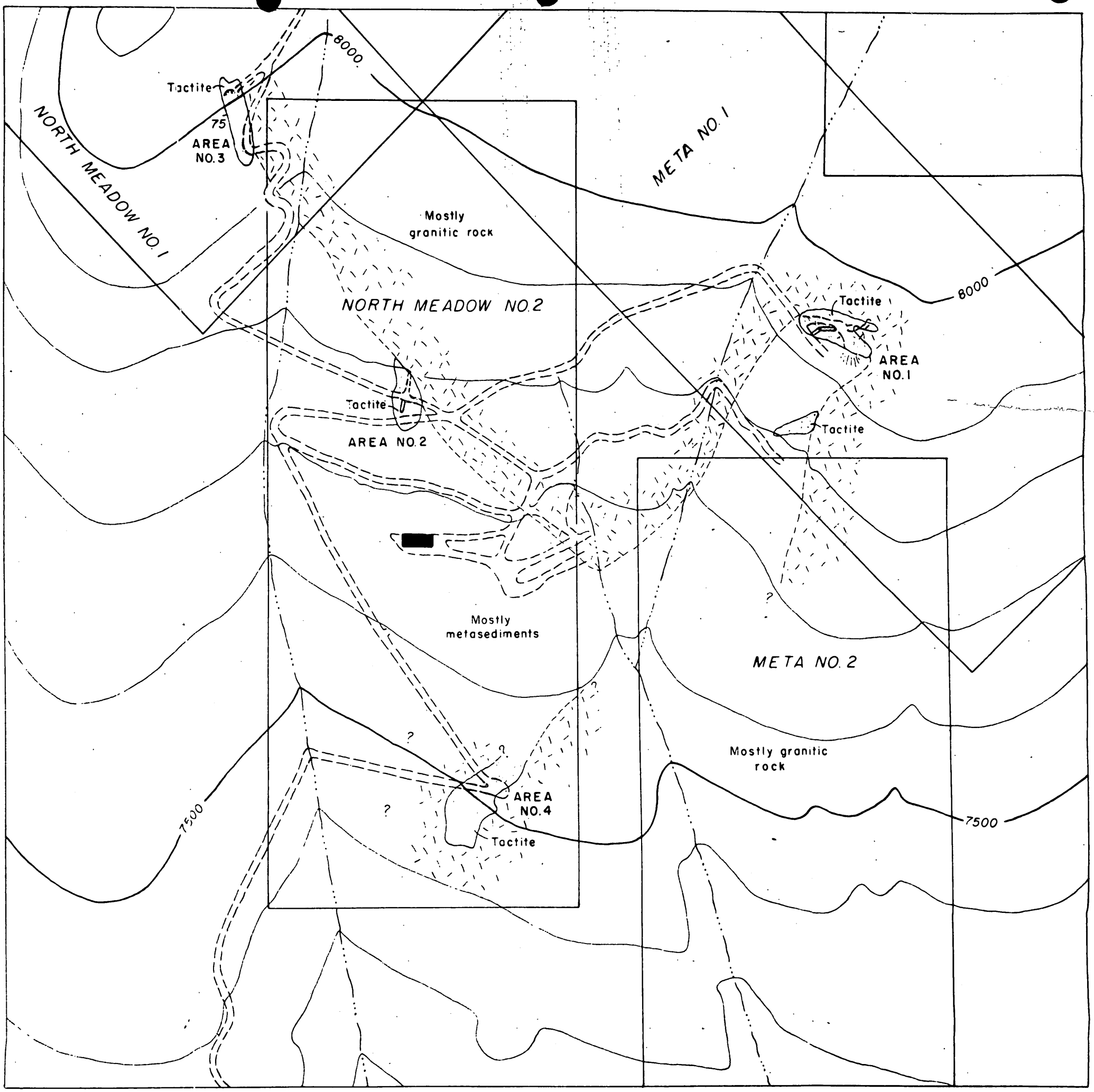


Figure 2. PROPERTY MAP, NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 200 400 600 Feet

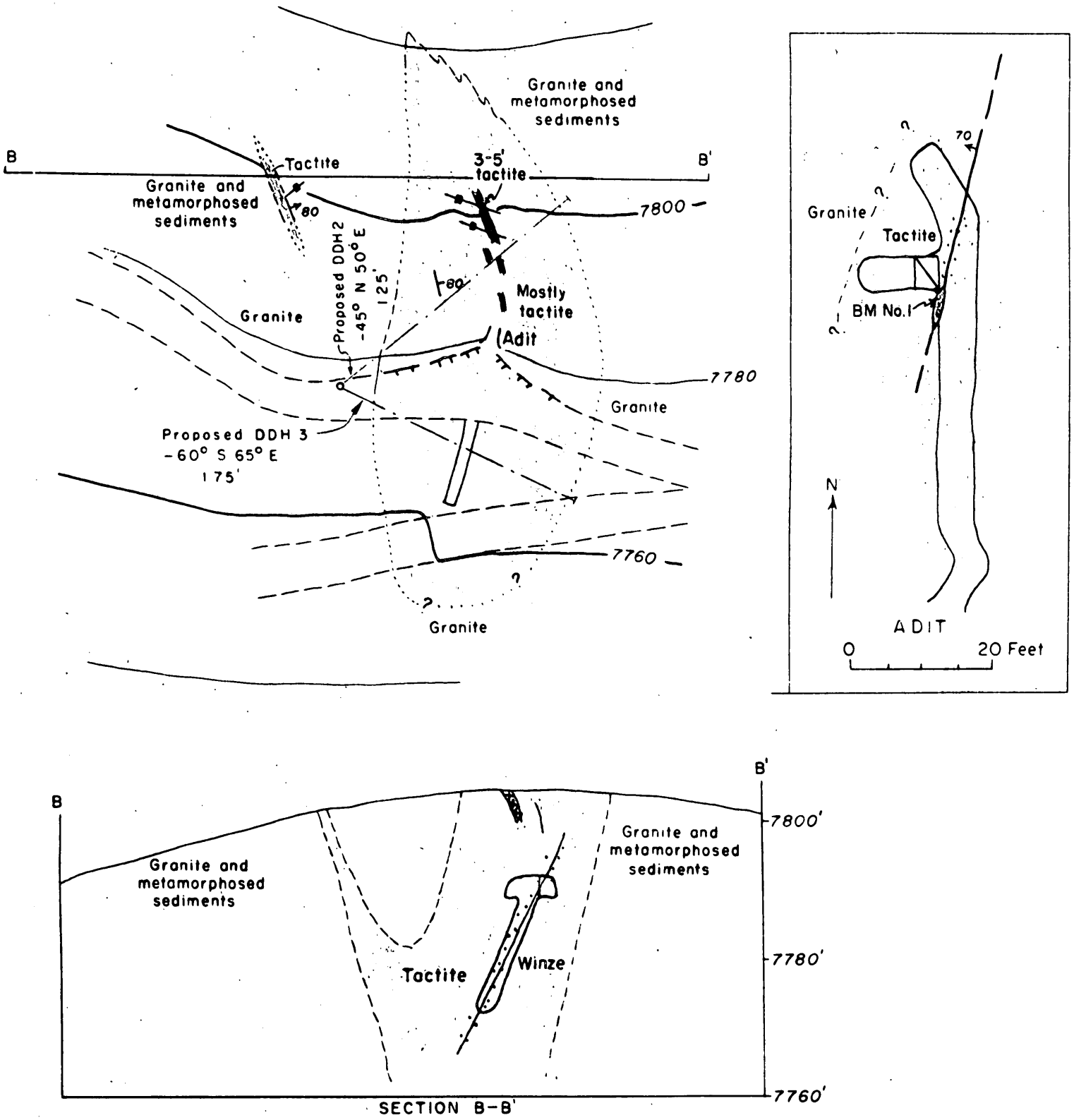
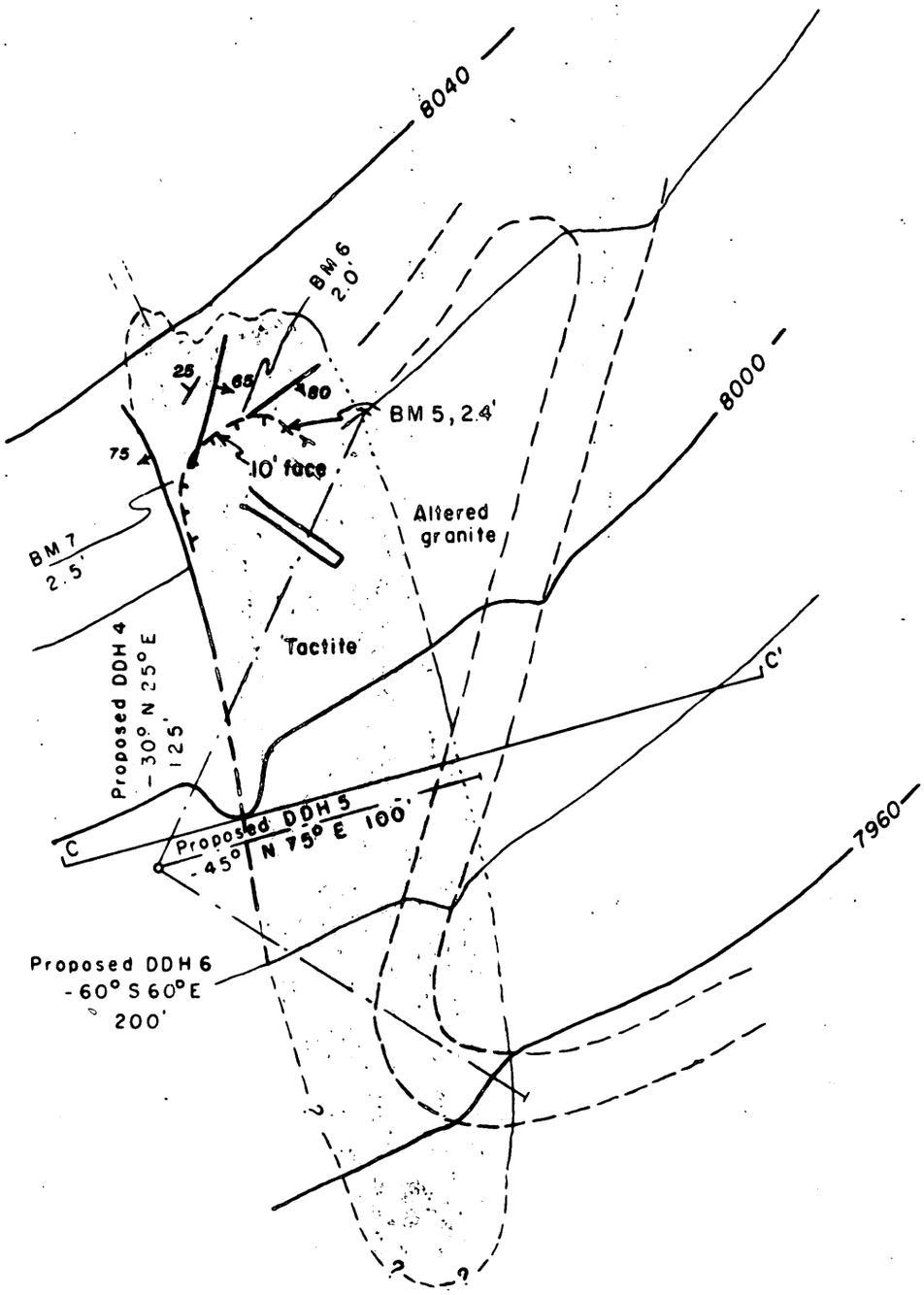


Figure 4. GEOLOGIC MAP AND SECTION, AREA NO. 2
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 40 80 120 Feet



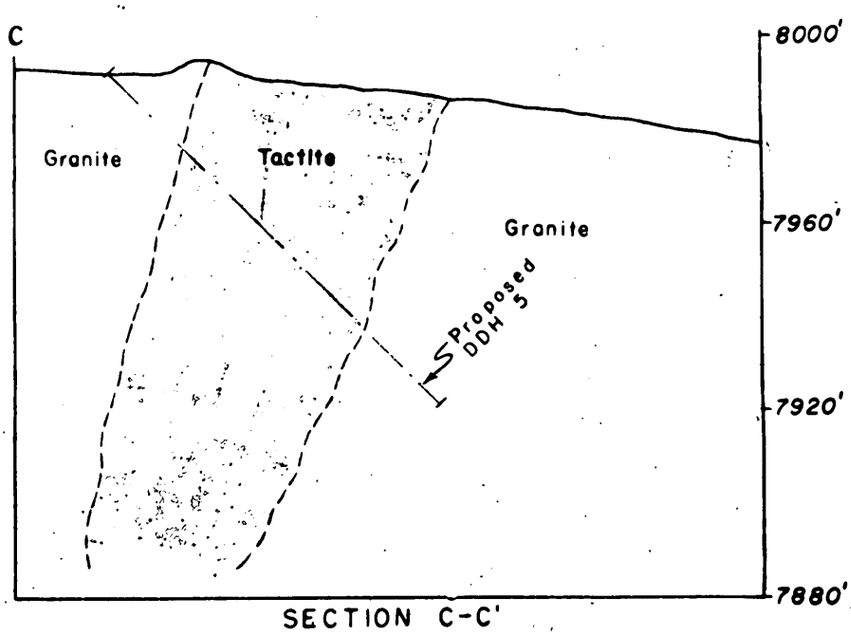
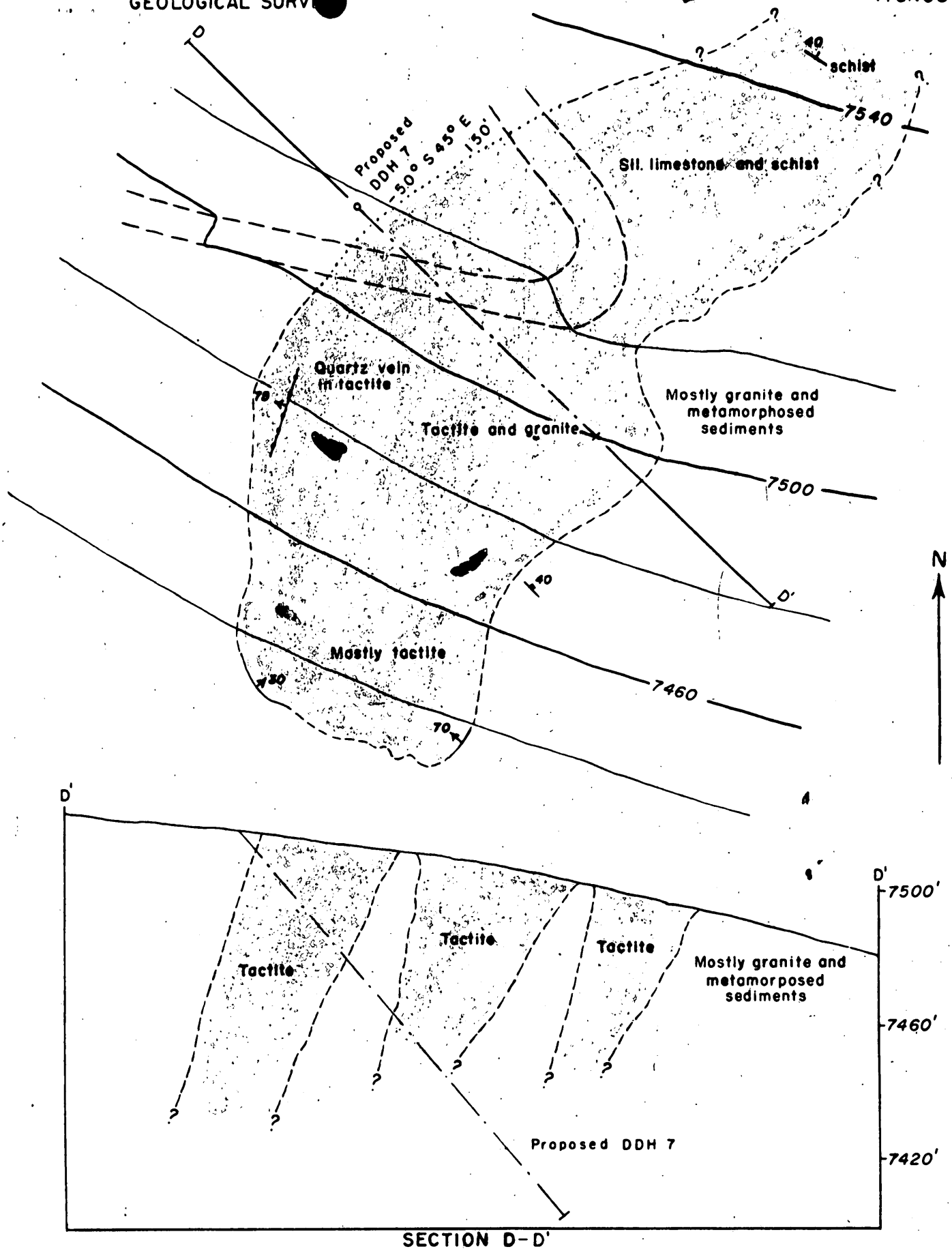


Figure 5. GEOLOGIC MAP AND SECTION, AREA NO 3
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 40 80 120 Feet



SECTION D-D'

Figure 6. GEOLOGIC MAP AND SECTION, AREA NO. 4
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

0 40 80 120 Feet

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8-7	Chapman	400
8-7	Martin	400
8/7	Martin	130
8/7	Higgs	130
8/7	Kiilsgaard	130
"	Johnson	110
"	Rutherford	100
8/7	P.K.	220
		400

AUG - 7 1957

INTERIOR

DMEA

1424401 (01) REVOLVING
FUND, DEFENSE PRODUCTION ACT, INTERIOR,
(TRANSFER TO OFFICE OF SECRETARY)

SPANGLER RICKER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION II
1605 EVANS AVENUE
RENO, NEVADA

JAMES V. COLLINS, DIRECTOR MARK II MINING COMPANY, TELEPHONED JULY 29 REGARDING STATUS APPLICATION DOCKET NO. DMEA 4483, TUNGSTEN. POSSIBLY YOU HAVE ALREADY REPLIED TO OUR LETTER OF JULY 23. IF NOT PLEASE TELEGRAPH COMMENTS.

W. S. Martin
ACTING CHAIRMAN, OPERATING COMMITTEE (SB)

W.S. Martin & TLChapman/dlm 8-7-57

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)

OFFICIAL FILE CO

Date	Surname	C
7-18	Chapman	400
7-18	Martin	400
7/22	Martin	130
"	Johnson	110
"	Westerdorf	100
7/23	C	220
		400

JUL 23 1957

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

Re: Docket No. DMEA 4433 - Tungsten
Mark II Mining Company, Inc.
North Meadow claims
Tulare County, California

Dear Mr. Bicker:

Reference is made to your memorandum of June 21, 1957, covering Application Report of J. D. Warne, Bureau of Mines, and Robert G. Reeves and Paul E. Taylor, Geological Survey, recommending a diamond drilling contract on the above-noted property.

Two former applications for exploration assistance on the above property have been denied and, as the examiners report does not indicate a significant tonnage of ore of a minable grade, we are inclined to believe the new application should also be denied. We would appreciate your comments on the following observations:

Under Ore Deposits the examiners report states: "Four main and several small tactite bodies occur (fig. 2); within the main bodies are found lenses and irregular bodies of scheelite-bearing material."

In Area No. 1, Meta No. 1 claim, the tactite zone is described as about 150 feet long and 50 to 60 feet wide and cut by one-quarter to one-half inch quartz veinlets. The last sentence on page 8 states, regarding this area: "Owing to extensive fracturing resulting from heavy blasting of the only good exposures the number and spacing could not be definitely ascertained but appears to be on the order of 6 inches to 2 feet." This does not appear to justify using the full volume of the tactite in calculating the measured, indicated and inferred tonnage of ore amounting to 27,050 tons averaging 0.70 percent WO_3.

8623

Results of samples taken from this area are as follows:

Sample No.	Description	Percent WO_3
2	8.6 ft. channel from NE side of pit	0.08
3	Grab of broken mixed material from open cut	0.71
4	Grab of coarse material from open cut	0.08

Data on ore milled and stockpiled do not indicate that entire tactite zone can be mined as ore.

Regarding Area No. 2, North Meadow No. 2 claim, the report states: "The tactite body at area No. 2 is a crescent-shaped lens about 150 feet long and 60 feet wide at its widest part (fig. 4). Within the body are lenses and irregular masses of scheelite-bearing material. The lenses are from 2 to 4 feet wide and 15 to 25 feet long."

No. 1 sample from this area, 1.0 ft. wide at top of 35 foot winze, assayed 3.10 percent WO_3.

We question whether there are sufficient data to justify calculating 7,200 tons of indicated and inferred ore averaging 0.53 percent WO_3.

The report states concerning Area No. 3, North Meadow No. 1 claim: "The tactite body at area No. 3 is about 200 feet long in a northerly direction and 50 feet wide. Lamping indicates that at the surface the northern part of the body contains more scheelite than the southern part."

Samples taken assayed as follows:

Sample No.	Description	Percent WO_3
5	2.4 foot channel across scheelite band, middle of face in open cut	0.21
6	2.0 foot channel across scheelite band, middle of face in open cut	0.01
7	2.5 foot channel across SW side of face in open cut	0.07

Under Ore Reserves, the 8,000 tons of inferred ore averaging 0.15 percent WO_3 is definitely not minable ore.

With respect to Area No. 4, North Meadow No. 2 claim, the report states: " An irregularly shaped tactite body surrounded by granite on three sides is exposed at the southwestern end of a large pendant of metasediments (fig. 6). Much of the tactite is concealed by soil; lamping of surface exposures disclosed only a small amount of erratically distributed scheelite."

The 12,500 tons of inferred ore averaging 0.10 percent WO_3 is definitely not minable ore.

Sample No. 8, Grab of 50-ton ore stockpile at mill, 0.02 percent WO_3, indicates that any ore would have to be selectively mined and shows that the ore lenses are irregular and erratic.

For the type of ore bodies described in the Report it is doubtful if diamond drilling would be successful in showing whether there is continuity of the ore lenses.

Sincerely yours,

W. S. Martin

APPROVED: ACTING Chairman, Operating Committee (JHB)

Frank D. Lamb (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

TLChapman/dlm 7-18-57 7-22-57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

File

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The 12,500 tons of inferred ore averaging 0.10 percent WO_3 is definitely not minable ore.

Sample No. 8, Grab of 50-ton ore stockpile at mill, 0.02 percent WO_3, indicates that any ore would have to be selectively mined and shows that the ore lenses are irregular and erratic.

Take Out

Under present conditions and in the foreseeable future, ore in this mountainous region with long hard winters would probably have to average at least one percent WO_3.

For the type of ore bodies described in the Report it is doubtful if diamond drilling would be successful in showing whether there is continuity of the ore lenses.

Sincerely yours,

APPROVED:

Chairman, Operating Committee

Member, Bureau of Mines

Member, Geological Survey

TLChapman/dlm 7-18-57

cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II

Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

DMEA Form 7
(12-56)

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Date	Surname	Code
7-18	Chapman	400
7-18	Martin	400
		110
		100

July 18, 1957

SUMMARY

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Estimated Cost of a Proposed Contract.
Docket No. DMEA 4483 - Tungsten
Mark II Mining Company, Inc.
North Meadow claims
Tulare County, California

Category No. 1, Independent contract
Actual Cost.

Diamond drilling, 1,000 feet at $7.25/ft.		$7,250.00

Categories I to VII inclusive

Fixed Unit Costs. Incidentals

Supervising Engineer, 3 months at $550.00/mo.	$1,650.00	
Bulldozing 32 hours at $12.00/hr. Includes Operator at $3.00/hr. Bulldozer, gas, oil, upkeep	384.00	
Drilling and blasting. 2 men 10 days at $18.00/day, supplies and compressor rental	355.00	
Gasoline, oil and upkeep, 3 months at $125.00/mo.	375.00	
Operating equipment owned by the Operator value $7,600.00, 3 months at $127.00/mo	381.00	
Payroll tax, Bulldozer operator, 4 days at $3.00/hr. (96.00) 2 miners, 10 days each at $18.00/day (180.00). Supervisor ($1,650.00) Total payroll $1,926.00 at 15 percent	259.00	
40 core boxes (wood) at $4.00 each and sampling equipment	200.00	
General expenses, accounting, etc.	296.00	
Total incidentals, $3.90 per foot for 1,000 ft D.D.		$3,900.00
Assaying 50 samples for WO3 at $5.00 each	$250.00	
Total for core boxes and assays		250.00
Total estimated cost of project		$11,400.00
Government participation, 75 percent		$8,550.00

8623

Use NORTH MEADOW CLAIMS in all future correspondence

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DATE	INITIALS	CODE
7/5	C	220
7/5	GRC	400

[illegible]

[illegible] July 5, 1957

DMEA Docket No. 4483
DMEA Contract No.
Commodity Tungsten
Name of applicant Mark II Mining Co., Inc.
Name of property North Meadow Mines
Location of property Tulare Co, Calif.
Internal code or [illegible]

W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys HTR
R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

[illegible]

Field Team Report

[illegible]

1. Date [illegible] 6/17/57 2. Date received [illegible] 7/1/57
3. Did the applicant have to revise: Yes [ ] No [X]
4. Did or do [illegible] production have to revise: Yes [ ] No [X]
5. [illegible] or post production: Yes [ ] No [X]
6. [illegible] have to revise: Yes [ ] No [X]
7. [illegible] you above:

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

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

10. Remarks: (Use back of page if necessary) I concur in the Field Team recommendation of approval.

R W Holliday
R. W. Holliday

IN REPLY REFER TO:

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

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RECEIVED JUN 28 1957

DATE	INITIALS	CODE
6/28	C	220
7/1	RC	400

June 28, 1957
Re: DMEA 4483
Mark ~~II~~ Mining Co., Inc.
North Meadow Mines
Tulare County, Calif.
Appl. Est. $16,800
Rec'd Est. $13,063 - 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 testing, by diamond drilling, four areas underlain by tactite in a meta sediments-granitic rock contact zone.

The property was the subject of two previous applications, 1844 and 2673, filed in 1951 and 1952. Both were denied. Exploratory work has since been done by the owners and in the opinion of the examiners, the four tactite bodies, formerly considered small, are large and good enough to justify the recommended proposed work. A small quantity of ore has been produced, 300 tons, plus or minus. The grade of the ore produced is about 0.5% WO_3, but the sampling suggests there is little of such material remaining, and the sampling lends little support to any part of the ore reserves estimate.

I concur with the recommendation of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

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

June 21, 1957

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RECEIVED JUN 24 1957

DATE	INITIALS	CODE
6/25	C	220
7/1	GLC	130
7/1	C	220
		700

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4483 (Tungsten)
Mark II Mining Company, Inc.
North Meadow Mines
Tulare County, California

Pursuant to your letter of January 11, 1957, we are enclosing a report on subject property by Robert G. Reeves, Geological Survey, and J. D. Warne, Bureau of Mines, in which an exploration project, costing $13,063.00, is recommended.

Roscoe Smith and I concur in the recommendation and suggest that a contract, if approved, be drawn up on a unit cost basis.

Attached are copies of a diamond drilling bid from the Continental Drilling Company which would be the logical firm to do the work on such a small job in the vicinity of the property.

Field examination had been delayed on account of inaccessibility of the property during the winter months.

S. Ricker

Encls: Reports.
Attachments.

Reviewed by
DMEA OPERATING COMMITTEE
6-28-57
(date)

BUREAU OF MINES
WASHINGTON, D. C.

JUN 24 11 47 AM '57

MA[illegible] MINING COMPANY INC.
22 S. W. OAK ST. • PORTLAND 4, OREGON • CAPITOL 3-3004
ARTHUR S. [illegible] • [illegible]
[illegible] • [illegible]

[illegible] 21, 1957

United States Department of the Interior
Defense Minerals Exploration Administration
Bureau of Mines Division
Reno, Nevada

[illegible] No. Sub Reports

[illegible] No. [illegible] - Tungsten
[illegible] Number Nos. 1 & 2 and
[illegible] Nos. 1 & 2 claims
[illegible] County, California

[illegible] Sources:

[illegible] request I am [illegible]
[illegible] Co. to cease drill [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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DATE | CODE

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

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DMEA
RECEIVED JUN 1957

DATE		CODE
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		220

APPLICATION REPORT

DMEA-4483 (Tungsten)
Mark II Mining Co., Inc.
North Meadow Mines
Tulare County, California

on SITE EXAM

by

J. D. Warne
U. S. Bureau of Mines

Robert G. Reeves
Paul F. Taylor
U. S. Geological Survey

June 17, 1957

Reviewed by
DMEA OPERATING COMMITTEE
6-28-57
(date)

see p 13

CONTENTS

	Page
Introduction	1
Conclusions and Recommendations	2
Location and Accessibility	2
Property and Ownership	3
History and Production	4
Development	5
Geology	6
Ore Deposits	7
Sampling	10
Ore Reserves	11
Proposed Exploration	12
Exploration Costs	14

ILLUSTRATIONS

Figure 1 . . . . . Index map

2 . . . . . Property map

3 . . . . . Geologic map, Area 1

4 . . . . . Geologic map, Area 2

5 . . . . . Geologic map, Area 3

6 . . . . . Geologic map, Area 4

INTRODUCTION

Mark II Mining Co., Inc., 222 S. W. Oak Street, Portland 4, Oregon, applied to the Defense Minerals Exploration Administration, docket DMEA-4483, for Government assistance in a $16,800 program to explore for tungsten at the North Meadow Mines, Tulare County, California. The applicant proposes to explore by surface diamond drilling to determine the extent and grade of the scheelite ore bodies in order to plan future mining and milling operations.

A field examination was requested by the Operating Committee and was made by R. G. Reeves and P. F. Taylor, U. S. Geological Survey, and J. D. Warne, U. S. Bureau of Mines, on May 3 and 4, 1957 accompanied by A. E. Hougham, president of the corporation. Previous applications, dockets Nos. 1844 and 2673, for exploration projects by former operators during 1951 and 1952 were denied; also an application for an access road, AR-73, was denied in 1951. In the meantime an appreciable amount of pertinent exploration has been done by the owners. The mine is being reactivated and new milling equipment is being installed.

CONCLUSIONS AND RECOMMENDATIONS

Four major and several minor bodies of scheelite-bearing tactite occur along and near the contact between granodiorite and Kernville series metasedimentary rocks. Also considerable production has already come from the adjacent Gill Embree property.

Exploration by open-cut excavations, bulldozer trenches, and a small amount of underground work has been confined to the four areas. This exploratory work indicates that these tactite bodies may be sufficiently large and high grade to mine profitably; but further exploration by diamond drilling is essential to determine the extent, attitude, and grade of the deposits.

It is recommended that the Government enter into a contract with the applicant to perform an $13,063.00 diamond drilling project. The present operator is qualified to properly conduct the proposed project.

LOCATION AND ACCESSIBILITY

The North Meadow Mines property is in Sequoia National Forest about three-fourths of a mile northwest from Sherman Peak in secs. 15, 16, 21, and 22, T. 22 S., R. 33 E., M.D.B.&M., Tulare County, California (fig. 1). The claims are at an altitude of about 8,200 feet.

The property is reached from Kernville, California, by paved highway 20.7 miles northward up Kern River Valley, then 10.9 miles of unimproved mine access roads leading northeastward up Brush Creek from the Kern River. A four-wheel drive vehicle is required to travel the last 2.7 miles of road to the mine. The property is generally inaccessible from about December through March, due to heavy snows at the higher elevations.

PROPERTY AND OWNERSHIP

The property consists of four unpatented mining claims (fig. 2) recorded at Visalia, Tulare County, California, as follows:

Claim	Book	Page	Date	Document No.
Meta No. 1	Vol. 1525	337	6/12/51	16957
" " 2	" 1525	339	6/12/51	16958
North Meadow No. 1	" 1525	343	6/12/51	16960
" " " 2	" 1525	345	6/12/51	16961

The present owner of the property is the Mark II Mining Co., Inc. (the applicant), 222 S. W. Oak Street, Portland 4, Oregon. Officers of this Oregon corporation are:

Arthur E. Hougham, president, Kernville, California
Abe Altman, secretary-treasurer, 222 S.W. Oak Street, Portland, Oregon
James V. Collins, director, 5340 N. 32nd Place, Phoenix, Arizona
Alvah C. Warren, Jr., director, 1211 Vine Ave., W. Covina, California

HISTORY AND PRODUCTION

The group of four claims, now known as the North Meadow Mines, was originally located by Arthur E. Hougham on April 21, 1951; mining and exploration work has been intermittent under three separate names or ownerships since that time: (1) Pacific Star Mines, Inc. (1951-1954), (2) North Meadow Mining Co. (1954-1955), and (3) Mark II Mining Co., Inc. (1956 to present).

During 1954 the final 2.7 miles of mine access road was constructed from the privately-owned Gill Embree mine road, and a 40-ton-per-day mill was erected on the property.

Total production records for the mine are not available; but the applicant estimates that an aggregate of 100 units of WO_3 have been produced from 200 tons of ore milled, with total sales receipts approximating $5,000.00. The present operator stated that one ton of concentrates was sold during 1956 to Wah Chang Mining Corporation, Bishop, California, for approximately $3,500. About 100 tons of ore is now stockpiled at the mine and mill and is estimated by lamping to contain 0.5 - 0.75 percent WO_3.

The neighboring Sherman Peak (Gill Embree) mine has produced 1,073 units of WO_3 from an estimated 1,500 tons of ore in 1954 and 1955, and 355 units of WO_3 from an unknown amount

of ore in 1956. The neighboring Brush Creek (Crotsenburg) mine produced 428 units of WO_3 from 1,098 tons of ore during 1953-56.

DEVELOPMENT

The following mine development work has been done (see figures 2, 3, 4, 5, and 6):

Area No. 1

Meta No. 1 claim--open cut about 40 feet long, 25 feet wide, and from 1 to 25 feet deep; with a 20-foot adit driven northeastward into the barren hanging wall of the tactite zone (fig. 3).

Area No. 2

North Meadow No. 2 claim--adit 66 feet northward along the mineralized tactite zones, with a 35-foot winze at 47 feet from the portal; 60 feet of open cut trenching across the tactite zone at the portal of the adit; and several small test pits in mineralized tactite above the adit (fig. 4).

Area No. 3

North Meadow No. 1 claim--open cut pit about 30 feet long, 15 feet wide, and from 1 to 20 feet deep; with open cuts exposures of the tactite zone along the road at 50-60 feet lower elevation than the open cut (fig. 5).

Area No. 4

North Meadow No. 2 claim--shallow bulldozed area and road exposing tactite zone near the southern portion of this claim (fig. 6).

The main mine plant installations and equipment are:

1 20-ft. by 60-ft. combination bunk and cook house
1 40-T/day gravity-type mill with complete crushing plant (good condition, value about $50,000)
1 10 k.w., 200 v., 3-phase Kohler light plant
1 12.5 k.w., 220 v., 3-phase Kohler light plant
1 D-8 Caterpillar bulldozer
1 D-2, 3/4-yd. Caterpillar skip loader
1 105-c.f.m. Ingersoll-Rand compressor
1 6 by 6 type, 10-wheel, Army dump truck
1 1953 Willys pick-up truck, 4-wheel drive
1 1953 Jeep, 4-wheel drive
2 75-lb. (each) Ingersoll-Rand jackhammers
Miscellaneous electric, pneumatic, and hand tools

GEOLOGY

The mine is on a south-trending ridge on the southwestern flank of Sherman Peak; along the crest of the ridge bedrock is largely concealed by thin soil cover, but along the eastern flank of the ridge the rocks are well exposed. The area is underlain by sedimentary rocks of the Kernville series of Middle Paleozoic age that have been intruded and metamorphosed by Isabella granodiorite of upper Mesozoic age (Miller and Webb, 1940). The contact between metamorphosed Kernville sediments and the granitic rock meanders through the property (fig. 2). The tactite bodies that contain the ore are along the contact.

At the mine, the Kernville series consists of interbedded calc-silicate hornfels, mica schist, quartzite, and marble. They strike generally northerly and dip generally from vertical to

60 degrees west; locally, however, they are highly contorted and strikes and dips vary widely. Along and near the contact with the granitic rock the limy members of the series have been converted to tactite consisting of garnet, epidote, clinopyroxenes, amphibole, and quartz. For the most part, the contact and bedding are conformable.

The Isabella granodiorite in the area surrounding the mine is a medium-gray, coarse-grained rock composed chiefly of large crystals of plagioclase feldspars, some orthoclase, and quartz, and minor amounts of biotite and hornblende. Near the contact with the sedimentary rocks the granodiorite is contaminated with large partly assimilated blocks of the sedimentary rocks.

The Kernville rocks and their metamorphic equivalents and the Isabella granodiorite are cut by steep dipping north-trending fractures which have served locally as structural control in ore deposition.

ORE DEPOSITS

Four main and several very small tactite bodies occur (fig. 2); within the main bodies are found lenses and irregular bodies of scheelite-bearing material.

Area No. 1

The tactite body at area number one trends slightly north of west and dips about 40° N (fig. 3). The body is about 150 feet long and from 50 to 60 feet wide. In cross section it appears to be a wedge thickening to the north. The northern border is considered to be in part at least a fault that strikes N 75° W, and dips 70° N; most of the northern border is concealed by soil. The ore consists of scheelite in a gangue of coarse brown almandine garnet and epidote in about equal proportions, quartz, clinopyroxenes, and amphibole. The tactite is cut by one-quarter to one-half inch wide quartz veinlets that trend N 50° W and dip 25° to 50° NE. The scheelite crystals are from 0.1 to 0.4 inch in diameter, and quite uniformly distributed through the gangue. Faults and fractures parallel to the N 75° W fault bounding the tactite body exert a minor influence on the distribution of scheelite; the tactite for a few inches adjacent to them contains more scheelite than the intervening rock. Owing to extensive fracturing resulting from heavy blasting of the only good exposures the number and spacing could not be definitely ascertained but appears to be on the order of 6 inches to 2 feet.

Area No. 2

The tactite body at area number two is a crescent-shaped lens about 150 feet long and 60 feet wide at its widest part (fig. 4). Within the body are lenses and irregular masses of scheelite-bearing

material, generally oriented about N 10° - 15° W and vertical. The lenses are from 2 to 4 feet wide and 15 to 25 feet long. A fault that trends N 15° E and dips 70° W is exposed near the northern end of the body, in a short adit and winze. The scheelite-bearing lenses are irregularly distributed through the body; a stratigraphic control of this distribution is suggested. The distribution of scheelite is also controlled by faults; the adjacent tactite on either side of the N 15° E, 70° W dipping fault contains more scheelite than that farther from the fault. The ore closely resembles that of area number one, but the scheelite is much finer grained, and very few crystals of 0.1 inch were observed.

Area No. 3

The tactite body at area number three is about 200 feet long in a northerly direction and 50 feet wide. Lamping indicates that at the surface the northern part of the body contains more scheelite than the southern part; and a small open pit has been dug near the northern end. Within the body, bedding of the original sediments trends northeast and dips 25 degrees north. The western side of the body is bounded by a northerly-trending fault that dips 75° W. Scheelite is locallized by northerly- and northeasterly-trending fractures that dip steeply east and

southeast. The tactite and ore closely resembles that at area number one, except that the scheelite crystals are slightly smaller.

Area No. 4

An irregularly shaped tactite body surrounded by granite on three sides is exposed at the southwestern end of a large pendent of metasediments (fig. 6). Much of the tactite is concealed by soil; lamping of surface exposures disclosed only a small amount of erratically distributed scheelite.

SAMPLING

Eight samples were taken from both surface and underground locations, shown in figures 3-6. Analyses and descriptions of samples are as follows:

Sample No.	Description	Percent WO_3
1	1.0 ft. channel sample at top of 35-ft. winze, North Meadow No. 2 claim.	3.10
2	8.6 ft. channel from NE side of face of pit, Meta No. 1 claim (Area No. 1).	0.08
3	Grab of broken mixed material from open cut, Meta No. 1 claim.	0.71
4	Grab of coarse material from open cut, Meta No. 1 claim.	0.08
5	2.4 ft. channel across scheelite band, middle of face in open cut, North Meadow No. 1 claim.	0.21
6	2.0 ft. channel across scheelite band, middle of face in open cut, North Meadow No. 1 claim.	0.01

Sample No.	Description	Percent WO_3
7	2.5 ft. channel across SW side of face in open cut, North Meadow No. 1 claim.	0.07
8	Grab of 50-ton ore stockpile at mill.	0.02

ORE RESERVES

Area	Measured	Indicated	Inferred	Total	Grade, weighted average
No. 1	800	6,250	20,000	27,050	0.7
No. 2		200	7,000	7,200	0.53
No. 3			8,000	8,000	0.15
No. 4			12,500	12,500	0.10
	800	6,450	47,500	54,750	0.46

Area No. 1

The tactite body at Area No. 1 contains 800 tons of measured ore in a block 40 feet long, 20 feet wide, and 10 feet deep extending 15 feet southeast and 25 feet northwest of the short adit; 6,250 tons in an adjacent block, wedge-shaped in section, 100 feet long, 50 feet wide, and 25 feet deep; and 20,000 tons of inferred ore in a third block 120 feet long, 80 feet wide, and 30 feet deep (minus the measured and indicated ore). The grade is about 0.70 percent WO_3.

Area No. 2

The tactite body contains 200 tons of indicated ore averaging 1.5 percent WO_3 in a body 2 feet wide, 50 feet deep, and 20 feet long on either side of the winze. Assuming that one tenth is ore, the body, which is 160 feet long, 45 feet wide, and 100 feet deep,

is inferred to contain 7,000 tons of ore averaging 0.5 percent WO_3.

Area No. 3 North Meadow No. 1

Assuming that one tenth is ore, the tactite body, which is 200 feet long, 40 feet wide, and at least 100 feet deep, contains 8,000 tons of inferred ore that may average 0.1 to 0.2 percent WO_3.

Area No. 4 North Meadow No. 2

Area No. 4 may contain an inferred 12,500 tons of scheelite-bearing material in a body 100 feet long, 50 feet wide, and 25 feet deep. The grade is estimated by lamping to be from 0.1 to 0.3 percent WO_3.

In areas 2, 3, and 4, it may not be possible to economically produce ore, as material of ore grade is distributed throughout the tactite bodies.

PROPOSED EXPLORATION

The applicant proposed to further explore the tungsten zones by diamond drilling several holes at each of the areas where exposures of scheelite mineralization have already been explored near the surface by open cut and shallow underground excavations. The directions and lengths of holes were not

specified and the applicant's cost estimates were incomplete; however, 1,500 feet of drilling of one-inch cores was requested at a total cost of $16,800.

In conference and agreement with the applicant a program was planned to explore the scheelite mineralized zones (shown in figure 2) on the North Meadow No. 1 and No. 2 claims and the Meta No. 1 claim as follows:

Area No. 1

Meta No. 1 claim--drill one hole approximately 125 feet in length to explore below the scheelite mineralized zone exposed in the open cut (see figure 3).

Area No. 2

North Meadow No. 2 claim--drill two holes aggregating approximately 300 feet to explore below the scheelite mineralized zone exposed in the adit, winze, and in surface trenches (see figure 4).

Area No. 3

North Meadow No. 1 claim--drill three holes aggregating approximately 425 feet to explore below the scheelite mineralized zone exposed in the open cut (see figure 5).

Area No. 4

North Meadow No. 2 claim--drill one hole approximately 150 feet in length to explore below the mineralized tactite zone

explored by the road and bulldozed area near the southern portion of this claim (see figure 6).

The terrain within the proposed drilling area is extremely steep and inaccessible, and the choice of access roads and drilling sites is limited. Considerable flexibility should be allowed the operator in the choice of drill sites and in the locations and lengths of holes requisite to explore the deposit subject to prior Government approval.

Estimated Cost of the Recommended Project

Diamond drilling cost estimates are based on a tentative verbal bid furnished to the applicant by the Continental Drilling Company, Los Angeles, California. The drilling cost to include all equipment, labor, tools, supplies, etc., required to drill 1,000 feet of surface diamond drill holes of AX size or larger; with the operator to prepare sites, furnish water, and move drill. Other estimated costs submitted by the applicant are used where applicable in the recommended program. Estimated time to complete the program, upon which costs are based, is four months; however a contract period of six months should be allowed to complete the work due to possible delays which may result from road conditions, inclement weather, etc.,.

1. Independent Contracts

(a) Bulldozing, to prepare access roads and drill sites (to be performed by the operator). Operation of D-8 size bulldozer to prepare 8 drill sites, 1,000 feet of access road, or approximately 800 cubic yards of excavation.

3 days @ $125.00/day $375.00

(b) Diamond drilling, 1,000 feet @ $7.25/foot . $7,250.00

Total, Item 1 . . . . . $7,625.00

2. Labor and Supervision

Supervisor-Engineer, 4 months @ $550.00/mo. $2,200.00

3. Operating Materials and Supplies

Diamond drilling, preparation of drill sites, moving drill, water supply to drill, etc.

Gasoline for compressor, electric power generator, trucks, etc.,.

4 months @ $125.00/month $500.00

4. Operating Equipment (to be furnished by operator)

Army type, 6 by 6 ten-wheel truck	$3,000.00
Pick-up	1,400.00
Electric power generator	2,500.00
Air receiver	200.00
Water tank	300.00
Msc. electric, pneumatic, and hand tools	200.00
Total value ----------	$7,600.00

Depreciation (5 yrs.) of $7,600.00=$126.67/mo.
(use $127.00)

Total, 4 months @ $127.00/month $508.00

5. Initial Rehabilitation

None -0-

6. New Buildings, Improvements, etc.

None -0-

7. Miscellaneous

50 samples to be analyzed for WO_3 @ $5.00/ea.	$250.00	
Core boxes and sample supplies	~~250.00~~	
Payroll taxes, ~~insurance,~~ etc. (~~15 percent~~ of $2,200.00)	330.00	
~~Transportation of labor and supplies, 4 mos. @ $200/mo.~~	~~800.00~~	
Repairs to trucks and operating equipment @ $50.00/mo.	200.00	
		~~$1,830.00~~

8. Contingencies

~~Delays due to inclement weather, road repairs, etc.~~	~~$ 400.00~~

Total estimated cost of the project . . . . . ~~$13,~~063.00

The estimated cost of diamond drilling is based on a bid to the operator by Continental Drilling Company using the following quantities of work and quoted prices:

200 ft. BX drilling @ $7.00/ft.	$1,400.00
800 ft. AX drilling @ $6.00/ft.	4,800.00
310 ft. casing @ $2.50/ft.	775.00
50 ft. cementing @ $5.50/ft.	275.00
Total est. cost, 1,000 ft.	$7,250.00

Summary of Costs

Bulldozing (to be performed by operator)
3 days @ $125/day $375.00

	Cost/ft.	
Diamond drilling 1,000 ft.		
Contract cost	$7.25	$7,250.00
Operating Mtls.&Supplies	0.50	500.00
Operating Equipment	0.51	508.00
Labor and Supervision	2.20	2,200.00
Miscellaneous	1.83	1,830.00
Contingencies	0.40	400.00
	12.69	

Total estimated cost of project $13,063.00

Government participation at 75 percent . . . . $ 9,797.25

DMEA Form 7
(12-56)

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Date	Surname	Code
1/10	Chapman Martin	400
1/11	Selfridge	130
		~~120~~
1/11	J.C. Johnson	110
		~~100~~

JAN 11 1957

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

Re: Docket No. DMEA 4483 - Tungsten
Mark II Mining Company, Inc.
North Meadow mines
Tulare County, California

Dear Mr. Ricker:

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

Copies of memoranda dated October 9 and 11, 1956, by R. W. Holliday, Bureau of Mines, and T. H. Kiilsgaard, Geological Survey, respectively, relating to the project are enclosed. Also enclosed are two copies of a letter from the applicant in reply to our letter of October 16, 1956, and an extra copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GHB)

APPROVED:

Frank D. Lamb (GHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (GHB)
Member, Geological Survey

TLChapman:foc / 1/10/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, BM
T. H. Kiilsgaard, GS

Enclosures

R.C.R.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/10	Chapman Martin	400
1/11	Selfridge	130
		~~120~~
1/11	GE Johnson	110
		~~100~~
1/14	CW	~~220~~

Kiilsgaard –
Lamb –
400

JAN 11 1957

Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

Re: Docket No. DMEA 4463 - Tungsten
North Meadow Mines
Tulare County, California

Gentlemen:

This will acknowledge receipt of your letter answering the questions submitted in our letter of October 16, 1956, and also summarizing the work now being carried on.

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

Any assistance you can give the members of the Field Team will be appreciated.

Sincerely yours,

Frank E. Johnson
ACTING Administrator

TLChapman:foc
1/10/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

Docket

MARK II MINING COMPANY INC.

222 S. W. OAK ST. • PORTLAND 4, OREGON • CAPITOL 2-2894

ARTHUR E. HOUGHAM—PRESIDENT
ABE ALTMAN—SECRETARY-TREASURER

JAMES V. COLLINS—DIRECTOR
ALVAH C. WARREN, JR.—DIRECTOR

OFFICIAL FILE COPY
D M E A
RECEIVED JAN 7 1957

DATE	INITIALS	CODE
1/7/57	WSM	400

December 27, 1956

United States,
Department of Interior,
Defense Minerals Exploration Administration,
Washington, D.C.

Attn: C.O. Mittenhorf, Administrator.

RE: Docket No, DMEA-4483
Tungsten,
North Meadow Mines,
Tulare, County, California.

Gentlemen:

Reference is made to your request for additional information on the above noted property.

1. A sketch map showing the location of cuts, showing tunnel and winze, was sent in with the original application. There are no assays available from this work.

However, since this application has been made, we have mined and milled fifty tons of ore from NORTH MEADOW # 1, from, a full twenty foot face averaging 1.15%. Concentrates were sold to the Government stockpile in San Francisco.

2. No Assays available.

3. Since this application has been made, we have mined and milled fifty tons of ore from NORTH MEADOW # 1, from a full twenty foot face averaging 1.15%. Concentrates were sold to the Government stockpile at San Francisco. The ore was not hand sorted.

4. Estimated total cost of proposed work is approximately sixteen thousand eight hundred dollars.

Estimated footage will be fifteen hundred feet of one inch core.

The consulting Geoligist is to be employed for approximately four days at one hundred dollars a day.

5. The one thousand ton figure of stockpiled and measured ore that would average 2% of W 03 was definitely a typographical error or misunderstanding between our Portland office and the mine. At the time application was made, approximately one hundred and fifty tons of ore was measured and stockpiled, of which we still have one hundred tons mined and stockpiled. The fifty tons of measured ore has since been mined, milled and sold to the Government stockpile.

You must also realize that a great deal of development and ore mined and milled and sold, was done by previous owners, and we do not have access to their assays and sales.

Sincerely yours,

MARK II Mining Company, Inc.

Arthur E. Hougham

Arthur E. Hougham, President

AEH/ro

MARK II MINING COMPANY INC.
222 S. W. OAK ST. • PORTLAND 4, OREGON • CAPITOL 2-2894

ARTHUR E. HOUGHAM—PRESIDENT
ABE ALTMAN—SECRETARY-TREASURER

JAMES V. COLLINS—DIRECTOR
ALVAH C. WARREN, JR.—DIRECTOR

Docket

RECEIVED
DEC 31 1956
D.M.E.A.

December 29, 1956

Mr. C. O. Mittendorf, Administator
United States Department of Interior
Defense Minerals Exploration Adminstration
Washington 25, D. C.

Re: Docket No. DMEA 4483-Tungsten
North Meadow Nos. 1 & 2 and
Meta Nos. 1& 2 claims
Tulare County, California

Dear Sir:

In reference to your Letter of October 16 and December 10, 1956 asking for details on the above-docketed application, I have sent our President your letter and he informed me that he is preparing the needed inormation and will foward them to you.

Very truly yours,

Abe Altman

Secretary

400
Chapman
Martin
Selfridge
Johnson

DEC 10 1956

Mark II Mining Company, Inc.
122 S. W. Oak Street
Portland 4, Oregon

Re: Docket No. M-[illegible] 4483 - Tungsten
North Meadow Nos. 1 & 2 and
Meta Nos. 1 & 2 claims
Tulare County, California

Gentlemen:

Reference is made to the above-docketed application for exploration assistance and our letter of October 10, 1956, which requested that you submit additional details of your proposed program.

We are unable to process the application until a reply is received to our above mentioned letter and would appreciate your providing us promptly with as much of the additional information requested as you now have available.

Sincerely yours,

C. O. Mittenhoff

Administrator

TLChapman:am 12-10-56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
Messrs. R. Holliday, USBM
T. H. Kiilsgaard, USGS
FT. REG. II

R.C.S.

400 Docket Surname Chapman Martin

OCT 16 1956

Mark II Mining Company, Inc.
222 S. W. Oak Street
Portland 4, Oregon

Re: Docket No. DMEA-4483, Tungsten
North Meadow Mines
Tulare County, California

Gentlemen:

Reference is made to your request for exploration assistance on the above-noted property. Review of your application indicates that in order to determine whether a field examination is justified we should have further information as follows:

1. A sketch map showing the location of cuts, and indicating the amount of ore that has been mined from each cut, and showing tunnel and winze, with assays from any mineralized zone cut by this work as well as width of samples.

2. If available send us assays of samples from present faces of cuts with width of samples.

3. Indicate the tonnage that has been milled and the percentage of WO_3 in the mill heads and in the concentrates. Advise if ore was hand-sorted.

4. Estimate total cost of proposed exploration work, including an estimate of the length and size of each drill hole and the total footage. Advise how many days your suggested consulting geologist is to be employed at $100.00 per day.

5. Please report assays with corresponding sample widths to show how you obtained your estimate of 1,000 tons of stockpiled and measured ore that will average 2 percent WO_3. We note that the assays submitted with your application represent only specimen samples.

We also note your reported road and mill construction, but, as you will appreciate, such development work cannot be used alone in re-evaluating the property.

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman/esf - 10/16/56
cc to: Docket
Code 400
Admr. R. Fill
THKiilsgaard, USGS, RWHolliday, USBM, FT, Reg. II

B.C.G.

IN REPLY REFER TO:

Docket

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

October 11, 1956

Memorandum

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

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

W309

Subject: Review of application, DMEA Docket 4483 (tungsten), Mark II Mining Co., Tulare County, California

The applicant proposes to explore tactite bodies for scheelite by diamond drilling. Drilling is to be done from four sites with three holes to be drilled at each site. No estimate is given of the length of the holes; hence it is impossible to determine the estimated cost of the program.

The applicant's property was previously brought to the attention of DMEA by applications docketed as 1844X and 2673. To chronologically summarize the order of events pertaining to the property, insofar as DMEA is concerned, application 1844X was submitted on June 26, 1951, by Pacific Star Mines, Inc. The application proposed the expenditure of $80,000, although no definite exploration program was presented. Following correspondence with the applicant, an indefinite program of dozing and drifting was proposed. The application subsequently was denied without a field examination on the grounds that meager information submitted by the applicant suggested very limited exposures of tungsten ore, which did not warrant mining.

In 1951, Pacific Star Mines, Inc., also made application for an Access Road Loan, although our files do not contain a copy of that application. As a result of the application Mr. B. H. Sheahan, U. S. Bureau of Mines, examined the applicant's property.

In 1952, Pacific Star Mines, Inc., submitted another DMEA application, this one docketed as No. 2673. Referral to the field for an examination was made and subsequently a geologic report by Irwin & Robertson, U. S. Geological Survey, was submitted. An engineering report by B. H. Sheahan was also submitted, the latter report being based on Sheahan's examination of August 1951. Both of these reports recommended denial of the application, the recommendations based on:

1. Limited size of the tactite pendants and contained ore bodies.

2. Low average grade of the ore.

Copy retained 400

3. The fact that proposed exploration would be so shallow it would not expose sufficient ore to justify the project.

4. Difficult accessibility of the deposit.

On the basis of these valid reasons presented by the Field Team, the application was denied.

In the present application it is stated that a road has been built to the property and to the tactite deposits to be explored. Two open pits have been developed, along with a 30-foot winze and 100 feet of drifting. A mill has been built and approximately $5,000 recovered from tungsten sales. Further, there is reported 1,000 tons of 2 percent WO_3 ore blocked out or stockpiled. These reasons given as justification for the proposed exploration tend to nullify some of the reasons used by DMEA in denying the previous applications. It is therefore believed that a reappraisal of the property is not only warranted but necessary.

I recommend referral of the application to the field for an examination of the geology exposed in the recent workings and for an appraisal of recent mine plant development. Field examiners may find the deposit is still too small to warrant exploration but the new mine management at least should be offorded an opportunity to discuss their proposals in the field with representatives of DMEA.

T. H. Kiilsgaard

T. H. Kiilsgaard

Docket

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

October 9, 1956

Memorandum

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 & Ferroalloys

Subject: Application
DMEA 4483 (Tungsten)
Mark II Mining Co., Inc.
222 S. W. Oak Street
Portland 4, Oregon

Subject application indicates a change in management and considerable development subsequent to previous DMEA denials (DMA-1844X, 1951 and DMEA 2673, 1951).

Although previous DMEA examinations and recent production ($5,000.00 in sales) verify the presence of mineralization more information is needed on reserves and on feasability of proposed exploration.

Referral to the Field Team for appropriate action is recommended.

R W Holliday
R. W. Holliday

Attachments 2

Copy retained 400

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

October 3, 1956

Mark II Mining Co., Inc.
222 S. W. Oak Street
Portland 4, Oregon

Subject: DMEA-4483
Re: Exploration Assistance
North Meadow Mines

Gentlemen

Your application for exploration assistance, dated September 20, 1956 submitted to our office at Reno, has been assigned Docket Number DMEA-4483 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,

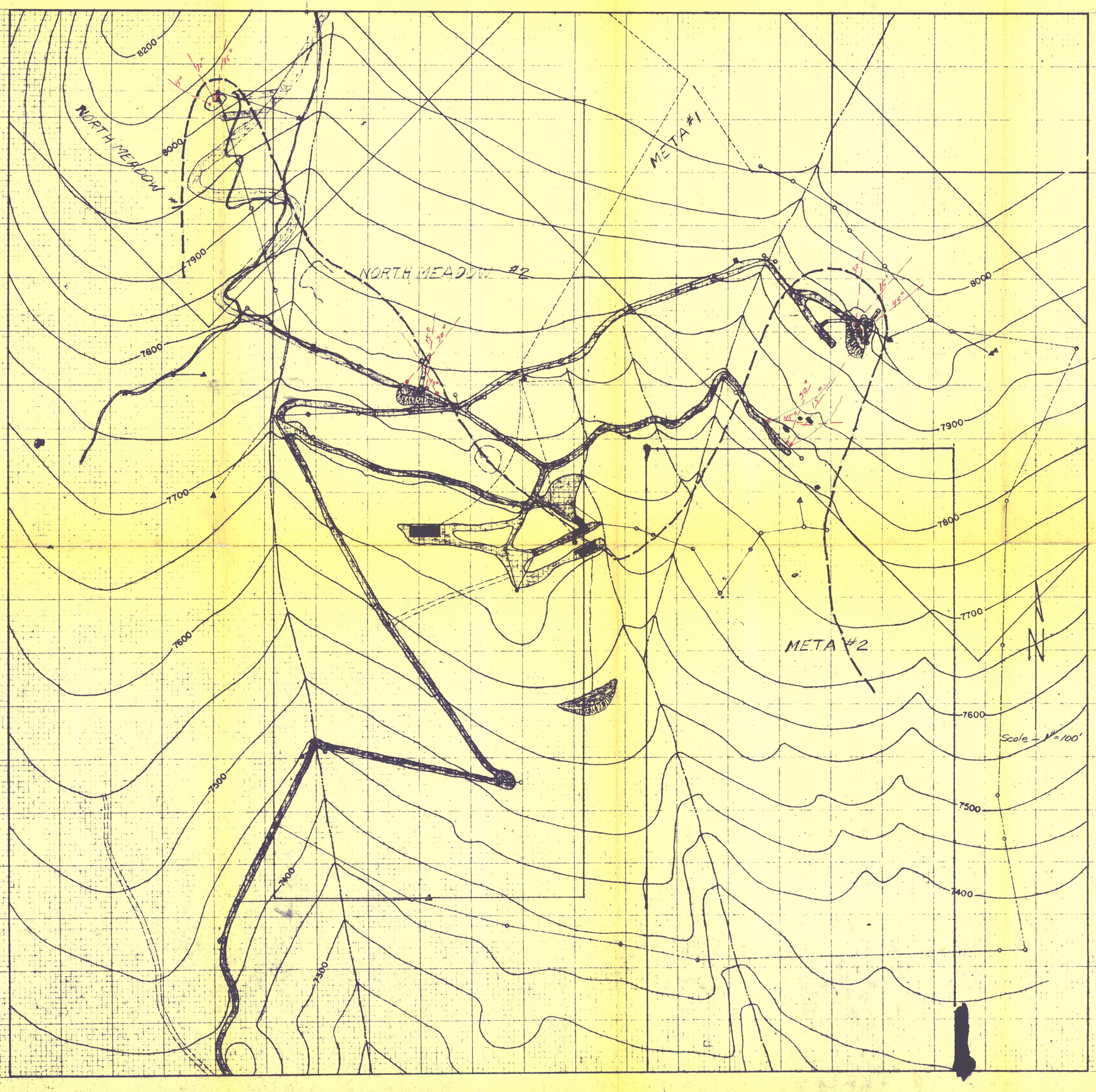
Allen S. Dakan, Chief
Operations Control and
Statistics Division

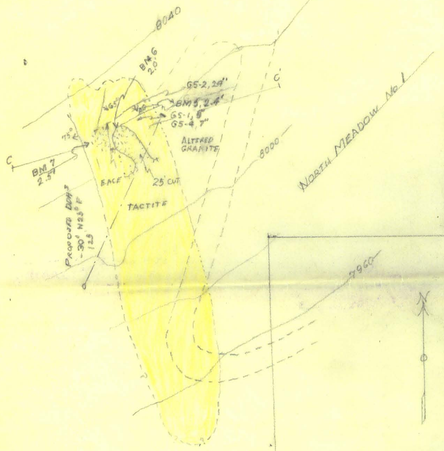
Copy to:

Region II. Reno, Nevada

Code 400

3571


8200
8000
7900
7800
7700
7600
7500
7400
7300
NORTH MEADOW #1
NORTH MEADOW #2
META #1
META #2
N
LEGEND
Existing Roads
Water Lines
Buildings
Contact line
Tunnel
Horse Trail
1" = 100'
Scale - 1" = 100'



SAMPLE No.	%WO3	% Mo.	WIDTH
GS-1	0.41	0.010	9"
GS-2	0.68	0.015	24"
GRAB 25 TON			
GS-3	0.51	0.015	GRAB
GS-4	1.10	0.020	7"

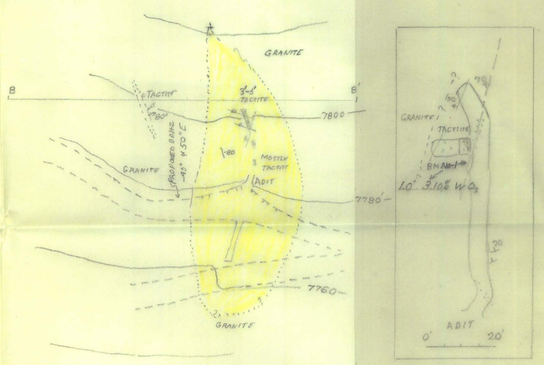
		WIDTH
BM-5	0.21	2.4'
BM-6	0.01	2.0'
BM-7	0.07	2.5'
GRAB 50 TON		
BM-8	0.02	

SCHELITE ::: SAMPLES DO NOT INDICATE SIGNIFICANT TONNAGE OF MINABLE ORE

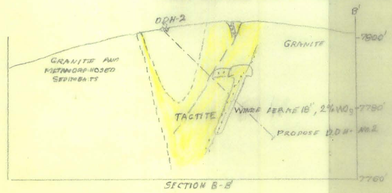
SECTION C-C'

GEOLOGIC MAP AND SECTION AREA No. 3

NORTH MEADOW No. 2



SMALL TONNAGE CAN BE SELECTIVELY MINED



NOTE ::: SCHELITE

SECTION B-B'

GEOLOGIC MAP AND SECTION AREA NO 2
NORTH MEADOW MINE, TULARE COUNTY, CALIFORNIA

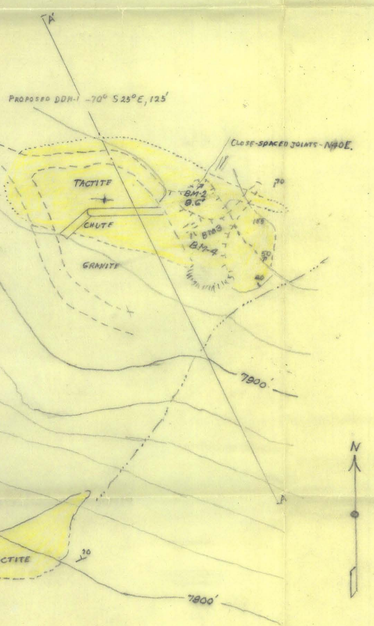
0' 40' 80' 120'

INDICATIONS ARE THAT NO SIGNIFICANT TONAGE CAN BE MINED AT A PRICE OF $30.00 PER UNIT.

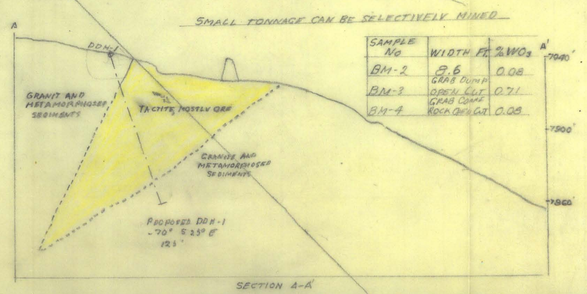
AT $30.00 PER UNIT ORE WITH A RECOVERABLE GRADE OF 0.50 PERCENT WO_3 WOULD HAVE A VALUE OF $16.00 PER TON. A RELATIVELY SMALL TONNAGE OF THIS GRADE CAN BE MINED AND MILLED UNDER $15.00 PER TON

MARK II MINING Co. INC. DMEA 4483

META No. 1



SMALL TONNAGE CAN BE SELECTIVELY MINED



SAMPLE No	WIDTH FT	%WO3
BM-2	0.6 GRAB DUMP	0.08
BM-3	OPEN CUT GRAB COMP.	0.71
BM-4	ROCK DUMP GRAB	0.09

SECTION A-A'

GEOLOGIC MAP AND SECTION AREA No. 1