DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3275

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Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

cys to USBM and USGS

Routing Slip

To:	400	Date	3/12/54
To:	Open Comm	Date	3-22-54
To:	Open Comm	Date	6-30-54
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DO NOT DETACH

CONTROLLED DOCUMENT

3275

JUN 30 1954

400

Mr. Elliott R. Henderson
416 - 30th Avenue North
Seattle 2, Washington

Re: Docket No. DMEA 3275 - Tungsten
Ford Mine
Inyo County, California

Dear Mr Henderson:

Your application for aid for an exploration project and other data available to us in Washington relating to the above-named property have been reviewed.

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

Careful study of all our information, although noting small amounts of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise, under the circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittenderf

Administrator

cc: DOCKET
CODE 400
FIELD TEAM, REG. II
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS
OPER. COMMITTEE

JHopkins/ls
6/23/54

June 24, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $29,500.00
Docket No. DMEA 3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

The denial of the subject application by this Division is based on the following information:

1. The Ford tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in a porphyritic quartz monzonite on the west slope of the Inyo Range of the Sierra Nevada mountains.

2. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite. Scheelite is sporadically disseminated in three zones of tactite, which are essentially parallel to the long dimensions of the pendant.

3. The largest zone of tactite is 115 feet long, 6 feet thick, and has been explored by a small open cut and a 6-foot adit driven on the best showings of scheelite which average .02 percent WO_3.

4. The second zone exposed in the face of an open cut 45 feet high is 7 feet thick and crops out along a strike length of 65 feet. A total of 164 tons containing less than 0.40 percent WO_3 was mined and shipped from this cut. From this shipment it is reported that 51.87 units WO_3 were recovered.

5. The third tactite body is about 30 feet long, 3 feet wide, and is vertical. The owners stated that this body is below minable grade.

Samples taken by examining engineer and geologist gave the following results:

Sample No.	Percent WO_3	Description
1656	0.03	Cut across 5' tactite on contact north side of pit.
1657	0.03	Cut across 5' tactite on granite contact.
1658	0.01	Cut across 5' portal of 10' adit on road.
1659	0.03	Cut across 5' north wall of 10' adit.

6. There are no reserves of any class on the property.

7. The examining engineer and geologist believe that the small tactite sections in this ore may be truncated by quartz monzonite at a very shallow depth. They conclude that the tactite is too low grade and the potential tonnage too small to warrant Government participation in exploring the property and, therefore, recommend that the application for Government assistance be denied.

8. The Commodity Divisions of the Bureau of Mines and Geological Survey concur in the denial.

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

cc: Docket
Code 400
Adm. Read. File
Oper. Comm.
JHopkins/ls

IN REPLY REFER TO:

480

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

June 28, 1954

Memorandum

Re: DMEA-3275
Ford Mine
Inyo County, California
$29,500
Tungsten

To: Mr. W. S. Martin, DMEA

From: E. L. Newcomb, USGS

Subject: Concurrence with Field Team recommendation for denial

The applicant proposes to drive a 750-foot adit and sink a 250-foot shaft from this adit level to explore two small scheelite-bearing tactite areas.

Previous exploration work has consisted of excavating a pit 60 by 45 feet to a depth of 45 feet and driving a 10-foot adit in tactite.

The field team recommends the application be denied.

Assays of four 5-foot samples taken by the field team average about 0.03 percent WO_3. Though scheelite mineralization occurs on the property it is limited to three small tactite zones which may be truncated by quartz monzonite at a shallow depth.

The sampling results and the property's low potentiality as a possible tungsten producer indicate that Government exploration assistance is not warranted. I concur with the field team's conclusions and recommend this application be denied.

E. L. Newcomb
Geologist

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

JUN 16 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

June 14, 1954

WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

Reference is made to your letter dated March 23, 1954, requesting a field examination of the subject property.

The property was examined on April 20, and there are attached four copies of a report entitled "DMEA-3275, Ford Mine, Tungsten, Inyo County, California," by Willmar T. Benson, Mining Engineer, U. S. Bureau of Mines, and C. D. Rinehart, Geologist, U. S. Geological Survey, dated June 9, 1954.

According to the report, the tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in porphyritic quartz monzonite. The pendant strikes about N 30° E and appears to dip southeast at a moderate angle. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite.

Development on the property comprises a pit 60 by 45 feet that has been excavated to a depth of 45 feet, and a 10-foot adit off the side of the road.

Conclusions of the engineer and geologist are that the tactite sections in these areas are small and may be truncated by quartz monzonite

Cleared OE 6/25

at a shallow depth. They believe that the scheelite-bearing tactite is too low in grade and the potential tonnage too small to warrant Government assistance and further exploration.

I concur with their recommendations.

H. C. Miller
Executive Officer
MMA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3275, Ford Mine
Tungsten

Inyo County, California

Willmar T. Benson, Mining Engineer
U. S. Bureau of Mines

C. D. Rinehart, Geologist
U. S. Geological Survey

June 9, 1954

EXAMINATION REPORT

Docket No.: DMEA-3275

Name and address of applicant: Elliott R. Henderson
416 - 30th Avenue North
Seattle, Washington

Name and location of property: Ford Mine
Inyo County, California

SUMMARY CONCLUSIONS AND RECOMMENDATIONS

Mr. Elliott R. Henderson, 416 - 30th Avenue North, Seattle, Washington applied to the Defense Minerals Exploration Administration for Government assistance in a $29,500.00 program to explore for tungsten on the Ford property situated about 16 miles east of Independence, Inyo County, California.

A field examination was requested by the Executive Officer, DMEA Field Team, Region III to determine whether the tungsten showings were sufficient to justify the project proposed by the applicant and to obtain data necessary to complete a contract. Accordingly, an examination was made on April 20, 1954 by an engineer of the U. S. Bureau of Mines and a geologist of the U. S. Geological Survey.

The applicant proposed to drive an adit 750 feet in length, and to sink to a depth of 250 feet from this adit level.

The scheelite-bearing tactite occurs in two small pendant areas in and adjacent to the site of the proposed work. In these areas the tactite sections are small and they may be truncated by quartz monzonite at a shallow depth. As the material exposed on the property is considerably below minable grade, and the discovery of an ore body of minable grade by further exploration is improbable, the examining engineer and geologist

recommend the expenditure of Government funds for such exploration be denied.

INTRODUCTION

In connection with an application for exploration assistance (Docket DMEA-3275) the property of the Ford Mine was visited on April 20, 1954 by an engineer of the U. S. Bureau of Mines and a geologist of the U. S. Geological Survey. The purpose of the visit was to inspect development openings that pertained to Elliott R. Henderson's application for assistance in exploring tungsten showings found on the property.

PROPERTY HOLDINGS AND ACCESSIBILITY

Property holdings of the Ford Mine comprise 16 unpatented lode mining claims known as the North Jumbo Extension 1 to 7, Summit 1 to 3, Contact 1 to 5 and the Cinch claim situated in what would be in about section 15, T13 S, R 36 E, Inyo County, California had the Public Land Survey been completed. It is about 16 miles east of Independence, the county seat, and 11 miles by steep mountain east of Kearsage, the shipping point on the Mojave to Benton branch line of the Southern Pacific Railroad.

To reach the property from Independence the Kearsage road is followed east 4 miles; a fair mountain road is then traveled east and south 11 miles to the property, which is near the crest of the Inyo Range.

COMPETENCY OF APPLICANT

According to the application the applicant, Mr. Elliott R. Henderson, states he has had 12 years experience in the banking business and twenty years experience as a practical mine operator. As stated, he planned to employ a mining engineer as a consultant to direct all phases of mining.

HISTORY

The property was located by Mr. James B. Ford, Lone Pine, California, in September 1951. Mr. Ford has only done the statutory work necessary to secure title to the claims.

During the summer of 1951 Mr. Gregar, operating the adjoining Jumbo mine, while putting in the road, mined 164 tons from the property that averaged 0.32 percent WO_3. From this shipment it is reported that 51.87 units were recovered by the Vanadium Corporation's mill at Pine Creek.

164
32
328
492
52.48
51.87

99% recovery?

Most probably, the 0.32 is an approxim. of the recovered units divided by the tons treated.

The only work done on the property since then was the driving of a 10 foot adit off the road for assessment purposes.

The property was leased to the applicant February 24, 1954.

PHYSICAL FEATURES

The claims are located near the crest and on the west slope of the Inyo Range in an area of steep and rugged topography at an altitude of about 7000 feet. The climate in the area is typical of the Owen's Valley immediately to the west with long hot summers and moderate winters. Precipitation occurs usually as snow with rains during the fall and spring months. Winter storms are sometimes severe enough to stop operation of the property during the winter months.

Scattered growths of pinon pine and mountain mahogany constitutes the vegetation on the property. Water is scarce. The nearest source of supply is at Willow Springs, 8 miles northwest of the property. For mining use it would be necessary to supply water in drums by truck from this source.

No transmitted electric power is available and for generation of

power it would be necessary to supply fuel oil in drums by truck from Independence, 16 miles west.

HOUSING FACILITIES

There are no housing facilities on the property. It would be necessary for the crew to live either at Independence or Lone Pine where accommodations with board are available.

EQUIPMENT

Except for a small assortment of hand tools there is no equipment on the property.

DEVELOPMENT

Development on the property comprises a pit 60 X 45 feet that has been excavated to a depth of 45 feet, and a 10 foot adit off the side of the road.

GEOLOGY AND ORE DEPOSITS

The Ford tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in porphyritic quartz monzonite. The pendant strikes about N. 30 E. and appears to dip southeast at a moderate angle. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite. It has formed, in part, along joints which may be parallel to bedding. Although bedding was not recognized in the marble, the joints are parallel to bedding in another pendant which crops out about 2000 feet to the northeast. Scheelite is sporadically disseminated in three zones of tactite, which are essentially parallel to the long dimension of the pendant.

The largest body of tactite occurs along the northwest contact of marble and quartz monzonite. This body, 115 feet long, 6 feet thick, dipping 35° southeast, has been explored by means of one small open cut and a 6-foot adit, driven on the best showings of scheelite, which average 0.02 percent WO_3. The owners stated that the surface scheelite showings in the remainder of this body indicate ore below minable grade.

Approximately 50 feet south of the largest body, a second scheelite-bearing tactite body is exposed in the face of an open cut 45 feet high. The tactite is about 7 feet thick, crops out along a strike length of 65 feet, and is nearly vertical. Here the best showings of scheelite are in the cut at the southwestern exposure of the tactite. The owners state that 160 tons containing less than 0.40 percent WO_3 were shipped from this cut.

The third and southernmost tactite body is about 30 feet long, 3 feet wide, and is vertical. The owners stated that this body is below minable grade.

SAMPLING

Samples were taken of tungsten-bearing material explored in the pit and in the adit which was driven into the hill from the road. Details regarding them follows:

Sample No.	Percent WO_3	Description
1656	0.03	Cut across 5 feet tactite on contact north side of pit. Garnet and epidote grades into gray lime on south.
1657	0.03	Cut across 5 feet tactite on granite contact. Quartz epidote and garnet, with some iron staining.
1658	0.01	Cut across 5 feet portal of 10 foot adit on road. Crushed limestone and tactite.
1659	0.03	Cut across 5 feet north wall 10 foot adit. Crushed tactite on granite contact.

ORE RESERVES

There are no reserves of any class on the property.

PROPOSED EXPLORATION

The applicant proposed to extend the adit off the road 750 feet in an easterly direction and then to sink 250 feet. This work together with other items was estimated to cost $29,500.00. Should further exploration of the property be undertaken, the applicant's proposal to drift along the northwest tactite body from the existing adit is sound.

CONCLUSIONS

Scheelite-bearing tactite occurs in two small pendant areas in and adjacent to the site of the proposed work. In these areas the tactite sections are small and may be truncated by quartz monzonite at a shallow depth. The scheelite-bearing tactite is too low in grade and the potential tonnage too small to warrant government participation in exploring the property.

The examining engineer and geologist recommend that the application for Government assistance to explore the property be denied.

MAR 23 1954

Mr. Elliott R. Henderson
416 30th Avenue North
Seattle 2, Washington

Re: Docket No. DMEA 3275 - Tungsten
Ford Mine
Inyo County, California

Dear Mr. Henderson:

This will acknowledge receipt of your letter of March 17, 1954.

Your application for assistance in exploring a tungsten occurrence at the Ford mine, Inyo County, California, has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, Room 1012, Flood Building, 870 Market St., San Francisco 2, California, for further consideration and a field examination of the property.

At the time a field examination is made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

SIGNED
Administrator

cc: DOCKET
FIELD TEAM, REG. III
CODE 400
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/22/54

400

MAR 23 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
Room 1012, Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

Dear Mr. Miller:

The subject application for exploration assistance is being referred to your office for review and a field examination of the property.

A memorandum by Mr. R. W. Geehan, U. S. Bureau of Mines, dated March 16, 1954, is enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

APPROVED:

J. H. Hedges

Memorandum, Bureau of Mines

D. M. Larrabee

Geological Survey

cc: DOCKET
FIELD TEAM, REG. III
CODE 400
ADM. READ. FILE
OPER. COMM.
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/22/54

402

C
O
P
Y

ELLIOTT R. HENDERSON COMPANY
416 - 30th Avenue North
Seattle 2, Washington

March 17, 1954

Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Subject: D.M.E.A. #3275
Re: Exploration Assistance Ford Mine

Attention: Iron & Ferro Alloys Division

Gentlemen:

Will you please tell me how long it will take to get an answer to my application submitted March 4, 1954 for exploration assistance?

Thanking you for this information and awaiting your early reply, I am

Yours truly,

Sgd.: ELLIOTT R. HENDERSON

Elliott R. Henderson

ERH:KCW

COPY

#00

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

March 16, 1954

Memorandum

To: W. S. Martin, DMEA

From: R. W. Geehan

Subject: DMEA 3275 - Tungsten
Ford mine, Inyo County, California

The application is not complete regarding some items such as the cost of rails and pipe. The estimated cost of contracts for drifting ($15.00 per foot) and sinking ($30.00 per foot) are much lower than recent DMEA work.

However, it seems probable that a field team report on the deposit should be scheduled The Bureau of Mines has a report on the Jumbo mine which may be just south of the Ford mine. I am unable to identify the ore reported shipped to U. S. Vanadium Co. on any of the recent reports of that company.

Signed: R. W. GEEHAN

R. W. Geehan

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

400

March 16, 1954

Memorandum

To: W. S. Martin, DMEA

From: R. W. Geehan

Subject: DMEA 3275 - Tungsten
Ford mine, Inyo County, California

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R. W. Geehan

Copy retained 400

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

Defense Minerals Administration
RECEIVED
MAR 12 1954

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

March 8, 1954

Memorandum

To: Defense Minerals Exploration Administration
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan - Tungsten
Elliott R. Henderson
416 - 30th Avenue North, Seattle, Washington
Ford Mine, Inyo County, California

Attached are three of the four copies of an application for a DMEA loan of $29,500 for exploring the Ford Mine, twelve miles east of Independence, Inyo County, California. The application was received in this office on March 5.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

MF-108
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

400

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 12 1954

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. 3275
Metal or Mineral Tungsten
Date Received
Estimated Cost $29,500
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: Elliott R. Henderson
416 - 30th Ave. North
Seattle, Washington

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
Please see lease enclosed for this information

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

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

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

(*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. See Lease for this information

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[illegible]te the mineral or minerals for which you w[illegible] explore Tungsten

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

(*c*) The work will start within 15 days and be completed within 24 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)? Yes

(*b*) How do you propose to furnish your share of the costs? $7,500.00

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated March 4, 1954

Elliott P. Henderson
(Applicant)

By

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

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

Elliott R. Henderson
416 - 30th Ave. North
Seattle, Washington

4. PHYSICAL DESCRIPTION

(a) This property has a tunnel in 10 feet, right off the road there is a good vein in this tunnel with a strong face of ore 7 x 8 feet, just below this tunnel is an open cut 25 x 40 feet with a shaft down 50 feet. The workings are very accessible being right on a good road. I did not do any of these operations.

(b) There has been shipped 161 tons of Tungsten ore that was settled for at .32% of 1% Tungsten

(c) Enclosed please find a quotation from a letter I received from Mr. Ford before I sured the lease.

"I have quite an extensive Tungsten property located in the Inyo Range some twelve miles East of Independence, which property has been looked over superficially by several mining engineers who are all of the opinion that, with proper development, this property should develop into one of the largest and most productive tungsten properties in this area.

"The ore body is in a contact between the lime and granite, varies in width, on the surface, from approximately three feet to approximately twenty feet. This contact can be traced from an elevation (insofar as my interests are concerned) of 7000' to approximately 9000' and covering a distance of approximately 7500'. Samples have been taken along this contact that show values in WO3 from .32% to above 4%. The values are contained in Tactite, altered and oxidized granite and Garnet. There has been some small amount of development work done on this property at the 7000' elevation, from which some 160 tons were shipped to U.S. Vanadium and averaged .38%.

"The U. S. Tungsten Corporation, who had a lease on the adjoining property constructed an access road through this property, at a cost of some $165,000.00, before becoming tied up in litigation with the owners of the adjoining property."

(d) There is a good access road 7 miles from the main highway that was put in by the U. S. Tungsten Corporation at a cost of $165,000. This road runs right through my property which is 12 miles from Independence, California. Independence is the shipping point supply center and residence district.

(e) There is plenty of manpower at Independence, also material supply etc. There is no water or power at the mine. The water we use will have to be hauled and power will be gas or diesel power.

5. THE EXPLORATION PROJECT

(b) I want to start drifting on the vein that has the ten foot tunnel just off the road. This vein exposed has a good strong face 7 x 8 feet.

I want to run this tunnel in 750 feet and when the tunnel is in for this distance I want to sink a winze 250 feet on the ore.

(d) I have had 12 years experience in the banking business and twenty years experience as a practical mine operator. I will have a mining engineer who is a graduate of the School of Mines at Golden, Colorado and 30 years experience in all phases of mining as our consultant.

6. ESTIMATE OF COSTS

I have a bid from some very responsible mines that they will contract to furnish all equipment and supplies for the work and will take a contract for $15.00 per foot for the tunnel and $30.00 per foot for the winze.

(b) For this question, I feel sure $400.00 per month will be sufficient.

(c) The contractor will furnish all these items except rails and car.

(d) The contractor will furnish all of the equipment except rails for the tunnel and air and water pipe. We will furnish the ore car or cars.

(e) This is a new project so this question will not apply to us.

(f) New Buildings. We will not need any building except a Compressor House which will possibly cost $500.00 and tool house, $250.00.

(g) The only item in this will be an account at $300.00 per month. All other items in the question will be the obligation of the contractor.

(h) I would say $1,500.00 would be sufficient for this item.

I would like to say when the engineer goes to inspect this property that he write first to M. A. Carothers, Star Route, Lone Pine, California, who will see Mr. Ford and these gentlemen will take the engineer to the mine. They have a four wheel drive truck which is best to go up the hill with. The Dow Hotel at Lone Pine is a good place to stop and they know Mr. Carothers.

ELLIOTT R. HENDERSON
416 30th Avenue North
Seattle, Wash.

Estimate of Costs of the Proposed Project.

Cost of Tunnel	
750 feet @ $15.00 per foot	$11,250.00
Cost of Winze	
250 feet @ $30.00 per foot	7,500.00
Consulting Engineer	4,800.00
Operating Material	
I do not know what rails or pipe will cost but an ore car can be had for	100.00
New Buildings	
Compressor House	500.00
Tool House	250.00
Accountant	3,600.00
Contingencies	1,500.00
	29,500.00

Inyo County Recorder
RECORD
FEB 2 1954

MINING LEASE

THIS AGREEMENT, made and entered into this 24th day of FEBRUARY, 1954, by and between W. JOHN THOMPSON, 1122 Gaynor, Encino, California and JAMES T. FORD, Box 61, Lone Pine, Inyo County, California, hereinafter call "OWNERS", and ELLIOT R. HENDERSON, 415 - 30th Avenue, North, Seattle, Washington, hereinafter called LESSEE:

W I T N E S S E T H:

WHEREAS, the said owners are the sole owners, subject only to the paramount title of the United States, of those certain unpatented mining claims known as and called:

NORTH JUMBO EXTENSION Claims #1, #2, #3, #4, #5, #6 and #7, notice of location of which is recorded in Volume 64, pages 1 to 7 inclusive, in the office of the County Recorder of the County of Inyo, State of California;

SUMMIT Claims #1, #2, and #3, notice of location of which is recorded in Volume 64, pages 16 to 18 inclusive, in the office of the County Recorder of the County of Inyo, State of California;

CONTACT Claims #1, #2, #3, #4, and #5, notice of location of which is recorded in Volume 64, pages 8 to 12 inclusive, in the office of the County Recorder of the County of Inyo, State of California; and

CINCH CLAIM, notice of location of which is recorded in Volume 64, page 15, of Mining Locations in the office of the County Recorder of the County of Inyo, State of California,

All of which are situated, lying and being in the Union Mining District in the County of Inyo, State of California, together with the improvements, tools, buildings, equipment and machinery situate thereon.

THEREFORE, for and in consideration of the rents, royalties, covenants and agreements, hereinafter set forth on the part of the Lessee to be paid, kept and performed, the Owners lease to Lessee and Lessee leases from Owners for a term beginning February 24, 1954, and ending February 22, 1964, and to grant to Lessee the option to renew this lease, upon the legal expiration thereof, for an additional five year period from the date of expiration and upon the same covenants, clauses and agreements of this indenture, those certain unpatented mining claims,

as describe herein on terms and conditions following.

THE LESSEE AGREES:

1. To enter upon said mining property, or premises, and to work said property in good mining fashion, in a manner necessary to result in good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the development of, and preservation of said property as a workable mine.

2. To well and sufficiently timber said mine at all points where necessary, in accordance with good mining, and to repair all old timbering whenever and wherever it may become necessary; to keep at all times the working drifts, shafts, tunnels and other workings thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualty.

3. To work said mines and properties as aforesaid, steadily and continuously, at least 40 man mine shifts per month beginning no later than 90 days from the date of this agreement, and a failure at any time to fully comply with such provisions shall constitute a default of this agreement.

4. To allow Owners and/or their agents to enter upon said mines and premises from time to time for purposes of inspection. Said Lessee further agrees that the Owners and/or their agents shall have the privilege, at all times during the life of this agreement, of posting in a conspicuous place on said mining claims, a notice in writing, to the effect that the work on said premises and the improvements thereon are being done solely at the expense of the Lessee and stating that the Owners will not be liable for any indebtedness for labor, material, or at all, created by said Lessee in connection with the work and operation of said property during the life of this agreement. Said Lessee further agrees that he will keep all notices, so placed on said property by the Owners, posted and that the same shall not be disturbed or removed by him.

5. That the Lessee will pay, or cause to be paid, all State and County taxes that may be levied or assessed against said premises buildings or fixtures, whether the said buildings, fixtures, or structures be the ones now situated upon said property, or whether they be the ones constructed by said Lessee, beginning with the year 1954 and to deliver to the Owners paid tax bills

at least fifteen days before such taxes become delinquent. Further that the Lessees will do, or cause to be done, the necessary annual assessment work upon all of said mining claims covered under this agreement, beginning with the assessment year 1954-1955, and prepare and record the affidavit of the performance of such work, said affidavit to show that the work was done for the Owners, and to be recorded not later than the 5th day of June of the following assessment year.

6. That the Lessee will cause all workment employed by him on said mining claims to be at all times fully covered by workman's compensation insurance in the manner and form required b the laws of the State of California, so as to hold and save said Owners and the property herein described from all liability for any injury that may be received by any of said workmen.

7. To pay promptly all labor and material bills and any all expenses incurred in the mining and development of the premises; to protect the Owners against any and all liability therefor.

8. To pay Owners, as royalty, ten percent (10%) of the gross mill or smelter returns of the gross returns of the ore buyer of all ores extracted from said mines and premises giving such instructions to smelter, mill or ore buyer that will insure that said percentage will be paid to Owners direct by the smelter, mill or ore buyer.

9. In the event that the Lessee fails to live up to any of the covenants of this lease, the Owners shall notify the Lessee in writing, at the Lessee's address hereinbefore mentioned, of such default by registered mail and the Lessee shall have thirty (30) days in which to correct such default; acts of God, the public enemy, labor troubles, strikes or extraordinary mining casualty shall not be considered as default of the covenants of this lease.

10. Upon the termination of this agreement for any cause the Lessee shall have the right, at any time within thirty days thereafter to remove any and all buildings, equipment of other improvements placed on said premises, by the Lessee, excepting timbering, ore bunkers and tramways of any type in the mines or on the premises.

11. That the Lessee will fully comply with any and all labor and mining laws of the United States and the State of California; and the Lessee will immediately upon receipt of all mill or smelter returns or receipts of the ore buyers, or analyses of assays, mail copies thereof to the Owners at their address

as given above.

14. Each and every clause of this indenture and each and every covenant of this indenture shall extend to the heirs, executors, administrators and lawful assigns of all parties hereto.

IN WITNESS WHEREOF, the said parties have hereunto set their hands.

/s/ JAMES B. FORD

/s/ M. JOHN THOMPSON, By James B. Ford

FOR THE OWNERS

/s/ ELLIOTT R. HENDERSON

LESSEE

STATE OF CALIFORNIA)
) SS
COUNTY OF INYO)

On this 24th day of February, 1954 before me the undersigned, notary public in and for the said county andstate, personally appeared JAMES B. FORD, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal.

/s/ WALTER JONES

Notary public in and for the County of Inyo
State of California.
My Commission Expires Dec. 7, 1954

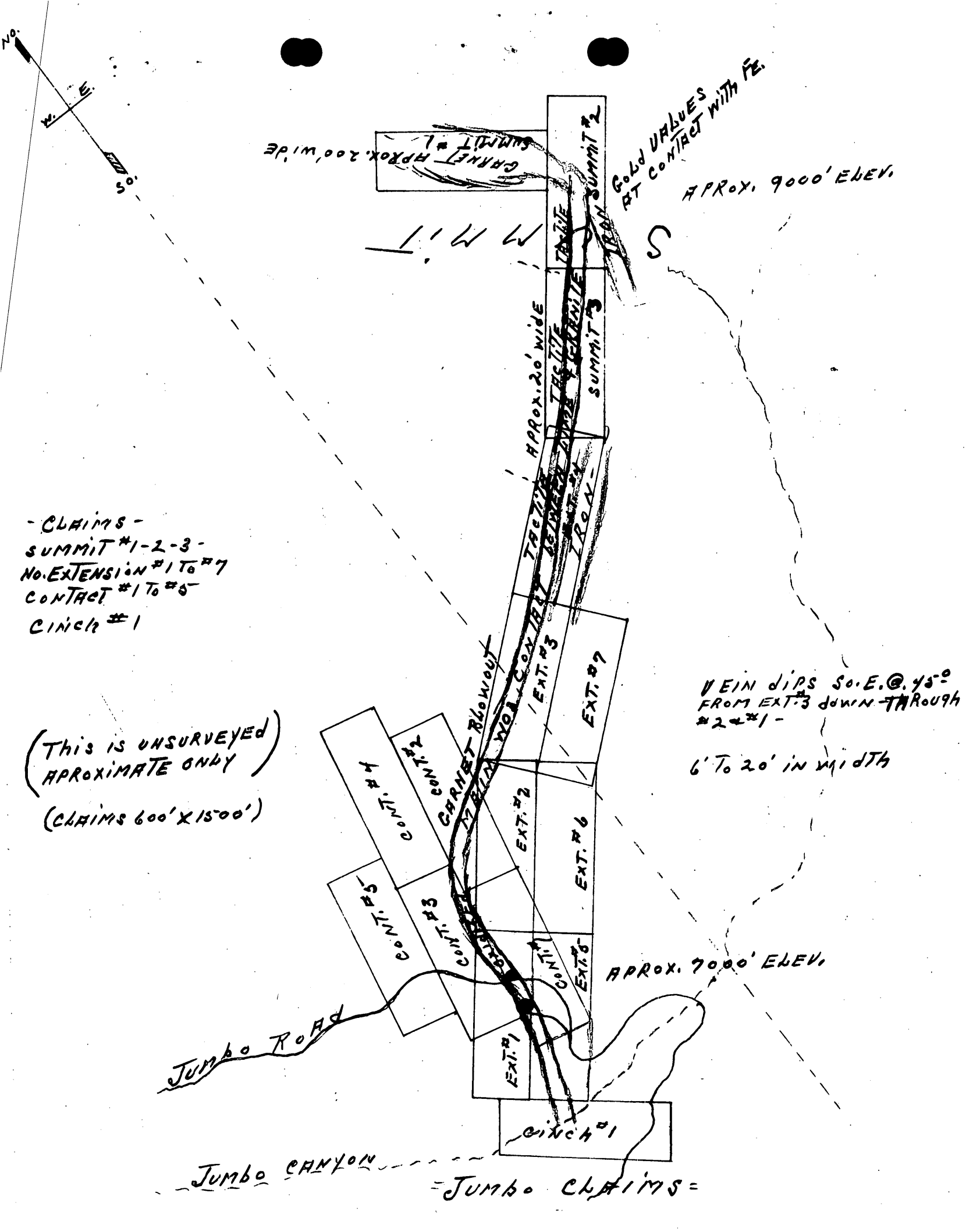
STATE OF WASHINGTON)
) SS
COUNTY OF K I N G)

On this 26th day of February, 1954, before me the undersigned a notary public in and for the said county and the date, personally appeared ELLIOT R. HEDERSON, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS MY hand and official seal.

/s/ JAMES F. REED

Notary Public in and for the County of
, State of Washington.


NO.
E.
W.
SO.
GARNET APROX. 200' WIDE
SUMMIT #1
GOLD VALUES AT CONTACT WITH FE.
APROX. 9000' ELEV.
TACITE
SUMMIT #2
TACITE
SUMMIT #3
APROX. 20' WIDE
TACITE
GARNET
FERRITE
IRON
EXT. #7
EXT. #3
GARNET BLOWOUT
MAIN CONTACT
EXT. #2
EXT. #6
CONT. #4
CONT. #2
CONT. #5
CONT. #3
CONT. #1
EXT. #5
EXT. #1
APROX. 7000' ELEV.
Jumbo Road
CINCH #1
Jumbo CANYON
=JUMBO CLAIMS=
-CLAIMS-
SUMMIT #1-2-3-
NO. EXTENSION #1 TO #7
CONTACT #1 TO #5
CINCH #1
(This is UNSURVEYED APROXIMATE ONLY)
(CLAIMS 600' X 1500')
VEIN DIPS SO. E. @ 45°
FROM EXT. #3 DOWN THROUGH
#2 & #1 -
6' TO 20' IN WIDTH

400

DOCKET COPY
Surname:

Hopkins
Martin
Davis
Newcomb
Guild
Hedges
Selfridge
Johnson

JUN 30 1954

Mr. Elliott R. Henderson
416 - 30th Avenue North
Seattle 2, Washington

Re: Docket No. DMEA 3275 - Tungsten
Ford Mine
Inyo County, California

Dear Mr. Henderson:

Your application for aid for an exploration project and other data available to us in Washington relating to the above-named property have been reviewed.

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

Careful study of all our information, although noting small amounts of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise, under the circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

cc: DOCKET
CODE 400
FIELD TEAM, REG. II
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS
OPER. COMMITTEE

JHopkins/ls
6/23/54

R 9/10
6

IN REPLY REFER TO:

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

June 28, 1954

Memorandum

Re: DMEA-3275
Ford Mine
Inyo County, California
$29,500
Tungsten

To: Mr. W. S. Martin, DMEA

From: E. L. Newcomb, USGS

Subject: Concurrence with Field Team recommendation for denial

The applicant proposes to drive a 750-foot adit and sink a 250-foot shaft from this adit level to explore two small scheelite-bearing tactite areas.

Previous exploration work has consisted of excavating a pit 60 by 45 feet to a depth of 45 feet and driving a 10-foot adit in tactite.

The field team recommends the application be denied.

Assays of four 5-foot samples taken by the field team average about 0.03 percent WO_3. Though scheelite mineralization occurs on the property, it is limited to three small tactite zones which may be truncated by quartz monzonite at a shallow depth.

The sampling results and the property's low potentiality as a possible tungsten producer indicate that Government exploration assistance is not warranted. I concur with the field team's conclusions and recommend this application be denied.

E. L. Newcomb
Geologist

DOCKET COPY
Surname:
Hopkins
Martin
Davis
Newcomb

June 24, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $29,500.00
Docket No. DMEA 3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

The denial of the subject application by this Division is based on the following information:

1. The Ford tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in a porphyritic quartz monzonite on the west slope of the Inyo Range of the Sierra Nevada mountains.

2. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite. Scheelite is sporadically disseminated in three zones of tactite, which are essentially parallel to the long dimensions of the pendant.

3. The largest zone of tactite is 115 feet long, 6 feet thick, and has been explored by a small open cut and a 6-foot adit driven on the best showings of scheelite which average .02 percent WO_3.

4. The second zone exposed in the face of an open cut 45 feet high is 7 feet thick and crops out along a strike length of 65 feet. A total of 164 tons containing less than 0.40 percent WO_3 was mined and shipped from this cut. From this shipment it is reported that 51.87 units WO_3 were recovered.

5. The third tactite body is about 30 feet long, 3 feet wide, and is vertical. The owners stated that this body is below minable grade.

Samples taken by examining engineer and geologist gave the following results:

Sample No.	Percent WO_3	Description
1656	0.03	Cut across 5' tactite on contact north side of pit.
1657	0.03	Cut across 5' tactite on granite contact.
1658	0.01	Cut across 5' portal of 10' adit on road.
1659	0.03	Cut across 5' north wall of 10' adit.

6. There are no reserves of any class on the property.

7. The examining engineer and geologist believe that the small tactite sections in this ore may be truncated by quartz monzonite at a very shallow depth. They conclude that the tactite is too low grade and the potential tonnage too small to warrant Government participation in exploring the property and, therefore, recommend that the application for Government assistance be denied.

8. The Commodity Divisions of the Bureau of Mines and Geological Survey condur in the denial.

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

cc: Docket
Code 400
Adm. Read. File
Oper. Comm.
JHopkins/ls

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

June 24, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $29,500.00
Docket No. DMEA 3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

The denial of the subject application by this Division is based on the following information:

1. The Ford tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in a porphyritic quartz monzonite on the west slope of the Inyo Range of the Sierra Nevada mountains.

2. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite. Scheelite is sporadically disseminated in three zones of tactite, which are essentially parallel to the long dimensions of the pendant.

3. The largest zone of tactite is 115 feet long, 6 feet thick, and has been explored by a small open cut and a 6-foot adit driven on the best showings of scheelite which average .02 percent WO_3.

4. The second zone exposed in the face of an open cut 45 feet high is 7 feet thick and crops out along a strike length of 65 feet. A total of 164 tons containing less than 0.40 percent WO_3 was mined and shipped from this cut. From this shipment it is reported that 51.87 units WO_3 were recovered.

5. The third tactite body is about 30 feet long, 3 feet wide, and is vertical. The owners stated that this body is below minable grade.

Samples taken by examining engineer and geologist gave the following results:

Sample No.	Percent WO_3	Description
1656	0.03	Cut across 5' tactite on contact north side of pit.
1657	0.03	Cut across 5' tactite on granite contact.
1658	0.01	Cut across 5' portal of 10' adit on road.
1659	0.03	Cut across 5' north wall of 10' adit.

6. There are no reserves of any class on the property.

7. The examining engineer and geologist believe that the small tactite sections in this ore may be truncated by quartz monzonite at a very shallow depth. They conclude that the tactite is too low grade and the potential tonnage too small to warrant Government participation in exploring the property and, therefore, recommend that the application for Government assistance be denied.

8. The Commodity Divisions of the Bureau of Mines and Geological Survey concur in the denial.

W S Martin

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

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

June 14, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

Reference is made to your letter dated March 23, 1954, requesting a field examination of the subject property.

The property was examined on April 20, and there are attached four copies of a report entitled "DMEA-3275, Ford Mine, Tungsten, Inyo County, California," by Willmar T. Benson, Mining Engineer, U. S. Bureau of Mines, and C. D. Rinehart, Geologist, U. S. Geological Survey, dated June 9, 1954.

According to the report, the tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in porphyritic quartz monzonite. The pendant strikes about N 30° E and appears to dip southeast at a moderate angle. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite.

Development on the property comprises a pit 60 by 45 feet that has been excavated to a depth of 45 feet, and a 10-foot adit off the side of the road.

Conclusions of the engineer and geologist are that the tactite sections in these areas are small and may be truncated by quartz monzonite

Reviewed by
DMEA OPERATING COMMITTEE
6-25-54
(date)

at a shallow depth. They believe that the scheelite-bearing tactite is too low in grade and the potential tonnage too small to warrant Government assistance and further exploration.

I concur with their recommendations.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

Reviewed by
DMEA OPERATING COMMITTEE

_____
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3275, Ford Mine
Tungsten

Inyo County, California

Willmar T. Benson, Mining Engineer
U. S. Bureau of Mines

C. D. Rinehart, Geologist
U. S. Geological Survey

June 9, 1954

Reviewed by
DMEA OPERATING COMMITTEE
6-25-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3275

Name and address of applicant: Elliott R. Henderson
416 - 30th Avenue North
Seattle, Washington

Name and location of property: Ford Mine
Inyo County, California

SUMMARY CONCLUSIONS AND RECOMMENDATIONS

Mr. Elliott R. Henderson, 416 - 30th Avenue North, Seattle, Washington applied to the Defense Minerals Exploration Administration for Government assistance in a $29,500.00 program to explore for tungsten on the Ford property situated about 16 miles east of Independence, Inyo County, California.

A field examination was requested by the Executive Officer, DMEA Field Team, Region III to determine whether the tungsten showings were sufficient to justify the project proposed by the applicant and to obtain data necessary to complete a contract. Accordingly, an examination was made on April 20, 1954 by an engineer of the U. S. Bureau of Mines and a geologist of the U. S. Geological Survey.

The applicant proposed to drive an adit 750 feet in length, and to sink to a depth of 250 feet from this adit level.

The scheelite-bearing tactite occurs in two small pendant areas in and adjacent to the site of the proposed work. In these areas the tactite sections are small and they may be truncated by quartz monzonite at a shallow depth. As the material exposed on the property is considerably below minable grade, and the discovery of an ore body of minable grade by further exploration is improbable, the examining engineer and geologist

recommend the expenditure of Government funds for such exploration be denied.

INTRODUCTION

In connection with an application for exploration assistance (Docket DMEA-3275) the property of the Ford Mine was visited on April 20, 1954 by an engineer of the U. S. Bureau of Mines and a geologist of the U. S. Geological Survey. The purpose of the visit was to inspect development openings that pertained to Elliott R. Henderson's application for assistance in exploring tungsten showings found on the property.

PROPERTY HOLDINGS AND ACCESSIBILITY

Property holdings of the Ford Mine comprise 16 unpatented lode mining claims known as the North Jumbo Extension 1 to 7, Summit 1 to 3, Contact 1 to 5 and the Cinch claim situated in what would be in about section 15, T13 S, R 36 E, Inyo County, California had the Public Land Survey been completed. It is about 16 miles east of Independence, the county seat, and 11 miles by steep mountain east of Kearsage, the shipping point on the Mojave to Benton branch line of the Southern Pacific Railroad.

To reach the property from Independence the Kearsage road is followed east 4 miles; a fair mountain road is then traveled east and south 11 miles to the property, which is near the crest of the Inyo Range.

COMPETENCY OF APPLICANT

According to the application the applicant, Mr. Elliott R. Henderson, states he has had 12 years experience in the banking business and twenty years experience as a practical mine operator. As stated, he planned to employ a mining engineer as a consultant to direct all phases of mining.

HISTORY

The property was located by Mr. James B. Ford, Lone Pine, California, in September 1951. Mr. Ford has only done the statutory work necessary to secure title to the claims.

During the summer of 1951 Mr. Gregar, operating the adjoining Jumbo mine, while putting in the road, mined 164 tons from the property that averaged 0.32 percent WO_3. From this shipment it is reported that 51.87 units were recovered by the Vanadium Corporation's mill at Pine Creek.

The only work done on the property since then was the driving of a 10 foot adit off the road for assessment purposes.

The property was leased to the applicant February 24, 1954.

PHYSICAL FEATURES

The claims are located near the crest and on the west slope of the Inyo Range in an area of steep and rugged topography at an altitude of about 7000 feet. The climate in the area is typical of the Owen's Valley immediately to the west with long hot summers and moderate winters. Precipitation occurs usually as snow with rains during the fall and spring months. Winter storms are sometimes severe enough to stop operation of the property during the winter months.

Scattered growths of pinon pine and mountain mahogany constitutes the vegetation on the property. Water is scarce. The nearest source of supply is at Willow Springs, 8 miles northwest of the property. For mining use it would be necessary to supply water in drums by truck from this source.

No transmitted electric power is available and for generation of

power it would be necessary to supply fuel oil in drums by truck from Independence, 16 miles west.

HOUSING FACILITIES

There are no housing facilities on the property. It would be necessary for the crew to live either at Independence or Lone Pine where accommodations with board are available.

EQUIPMENT

Except for a small assortment of hand tools there is no equipment on the property.

DEVELOPMENT

Development on the property comprises a pit 60 X 45 feet that has been excavated to a depth of 45 feet, and a 10 foot adit off the side of the road.

GEOLOGY AND ORE DEPOSITS

The Ford tungsten deposit occurs in a marble pendant 230 feet long and 50 feet wide which is enclosed in porphyritic quartz monzonite. The pendant strikes about N. 30 E. and appears to dip southeast at a moderate angle. Tactite has been formed from the marble by contact metamorphism, and is composed largely of garnet, epidote, amphibole, pyroxene, quartz, and minor amounts of scheelite. It has formed, in part, along joints which may be parallel to bedding. Although bedding was not recognized in the marble, the joints are parallel to bedding in another pendant which crops out about 2000 feet to the northeast. Scheelite is sporadically disseminated in three zones of tactite, which are essentially parallel to the long dimension of the pendant.

ORE RESERVES

There are no reserves of any class on the property.

PROPOSED EXPLORATION

The applicant proposed to extend the adit off the road 750 feet in an easterly direction and then to sink 250 feet. This work together with other items was estimated to cost $29,500.00. Should further exploration of the property be undertaken, the applicant's proposal to drift along the northwest tactite body from the existing adit is sound.

CONCLUSIONS

Scheelite-bearing tactite occurs in two small pendant areas in and adjacent to the site of the proposed work. In these areas the tactite sections are small and may be truncated by quartz monzonite at a shallow depth. The scheelite-bearing tactite is too low in grade and the potential tonnage too small to warrant government participation in exploring the property.

The examining engineer and geologist recommend that the application for Government assistance to explore the property be denied.

The largest body of tactite occurs along the northwest contact of marble and quartz monzonite. This body, 115 feet long, 6 feet thick, dipping 35° southeast, has been explored by means of one small open cut and a 6-foot adit, driven on the best showings of scheelite, which average 0.02 percent WO_3. The owners stated that the surface scheelite showings in the remainder of this body indicate ore below minable grade.

Approximately 50 feet south of the largest body, a second scheelite-bearing tactite body is exposed in the face of an open cut 45 feet high. The tactite is about 7 feet thick, crops out along a strike length of 65 feet, and is nearly vertical. Here the best showings of scheelite are in the cut at the southwestern exposure of the tactite. The owners state that 160 tons containing less than 0.40 percent WO_3 were shipped from this cut.

The third and southernmost tactite body is about 30 feet long, 3 feet wide, and is vertical. The owners stated that this body is below minable grade.

SAMPLING

Samples were taken of tungsten-bearing material explored in the pit and in the adit which was driven into the hill from the road. Details regarding them follows:

Sample No.	Percent WO_3	Description
1656	0.03	Cut across 5 feet tactite on contact north side of pit. Garnet and epidote grades into gray lime on south.
1657	0.03	Cut across 5 feet tactite on granite contact. Quartz epidote and garnet, with some iron staining.
1658	0.01	Cut across 5 feet portal of 10 foot adit on road. Crushed limestone and tactite.
1659	0.03	Cut across 5 feet north wall 10 foot adit. Crushed tactite on granite contact.

Docket
Rutledge
Martin
Wittenday

MAY 14 1954

Mr. Elliott R. Henderson
416 - 30th Avenue North
Seattle 2, Washington

Re: Docket No. DMEA 3275-Tungsten
Ford mine
Inyo County, California

Dear Mr. Henderson:

This will acknowledge your letter of May 10, 1954, requesting an immediate answer by return air-mail as to the status of the above-docketed application for exploration assistance.

The subject application was referred to the Field Team for an examination of the property and consideration of the proposed exploration program on March 23, 1954. We note from your letter that a field examination was made on April 20, but our records show that the Field Team report has not yet been received in Washington. Preparation of an examination report requires time enough for drafting and duplicating the necessary maps and usually involves a wait for the sample returns.

We will, however, advise you promptly when the Field Team report has been received and reviewed.

Sincerely yours,

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

cc: DOCKET
CODE 400
ADM. READ. FILE
FIELD TEAM, REG. II
R. W. GEEHAN, USBM
T. P. THAYER, USGS

FARutledge/ls 5/13/54

R.C.B.

TELEPHONE
EAST 8434

ELLIOTT R. HENDERSON COMPANY
APPRAISERS — ENGINEERS — OPERATORS — MANAGERS
FOR THE MINING INDUSTRY
416 - 30TH AVENUE NORTH
SEATTLE 2, WASHINGTON

DEPARTMENT OF
Defense Minerals Administration
RECEIVED
MAY 12 1954

May 10, 1954

Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. D.M.E.A. 3275 Tungsten
Ford Mine
Inyo County, California
% Iron and Ferro-Alloys Division

Dear Mr. Mittendorf:

I am writing to ask about the status of my application dated March 4, 1954 for a Tungsten Exploration Project loan located in Inyo County, California.

Your engineers made an examination of the Ford Mine April 20, 1954 and said they would send their reports direct to Washington.

It is very important I get this information as soon as possible so if you will answer this immediately by return airmail it will be greatly appreciated. Thanking you for the above information and awaiting your early reply, I am

Sincerely yours,

Elliott R. Henderson

Elliott R. Henderson

ERH:ag

400

Hopkins
Martin
Guild
Selfridge
Johnson

MAR 23 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
Room 1012, Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3275 - Tungsten
Elliott R. Henderson
Ford Mine
Inyo County, California

Dear Mr. Miller:

The subject application for exploration assistance is being referred to your office for review and a field examination of the property.

A memorandum by Mr. R. W. Geehan, U. S. Bureau of Mines, dated March 16, 1954, is enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (246)

Enclosure

APPROVED:

J. H. Hedges (246)
Memorandum, Bureau of Mines

D. M. Larrabee (246)
Geological Survey

cc: DOCKET
FIELD TEAM, REG. III
CODE 400
ADM. READ. FILE
OPER. COMM.
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/22/54

R.C.H. 3-23-54

Hopkins
Martin
Guild
Selfridge
Johnson

MAR 23 1954

Mr. Elliott R. Henderson
416 30th Avenue North
Seattle 2, Washington

Re: Docket No. DMEA 3275 - Tungsten
Ford Mine
Inyo County, California

Dear Mr. Henderson:

This will acknowledge receipt of your letter of March 17, 1954.

Your application for assistance in exploring a tungsten occurrence at the Ford mine, Inyo County, California, has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, Room 1012, Flood Building, 870 Market St., San Francisco 2, California, for further consideration and a field examination of the property.

At the time a field examination is made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

SIGNED
Administrator

cc: DOCKET
FIELD TEAM, REG. III
CODE 400
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/22/54

R.C.G.
3-23-54

MAY 14 1954

Mr. Elliott R. Henderson
416 - 30th Avenue North
Seattle 2, Washington

Re: Docket No. DMEA 3275-Tungsten
Ford mine
Inyo County, California

Dear Mr. Henderson:

This will acknowledge your letter of May 10, 1954, requesting an immediate answer by return air-mail as to the status of the above-docketed application for exploration assistance.

The subject application was referred to the Field Team for an examination of the property and consideration of the proposed exploration program on March 23, 1954. We note from your letter that a field examination was made on April 20, but our records show that the Field Team report has not yet been received in Washington. Preparation of an examination report requires time enough for drafting and duplicating the necessary maps and usually involves a wait for the sample returns.

We will, however, advise you promptly when the Field Team report has been received and reviewed.

Sincerely yours,

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

cc: DOCKET
CODE 400
ADM. READ. FILE
FIELD TEAM, REG. II
R. W. GEEHAN, USBM
T. P. THAYER, USGS

FARutledge/ls 5/13/54

Docket

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

Defense Materials Administration
RECEIVED
MAR 17 1954

March 16, 1954

Memorandum

WSM

To: W. S. Martin, DMEA

From: R. W. Geehan

Subject: DMEA 3275 - Tungsten
Ford mine, Inyo County, California

The application is not complete regarding some items such as the cost of rails and pipe. The estimated cost of contracts for drifting ($15.00 per foot) and sinking ($30.00 per foot) are much lower than recent DMEA work.

However, it seems probable that a field team report on the deposit should be scheduled. The Bureau of Mines has a report on the Jumbo mine which may be just south of the Ford mine. I am unable to identify the ore reported shipped to U. S. Vanadium Co. on any of the recent reports of that company.

R. W. Geehan

R. W. Geehan

Copy retained 400

TELEPHONE
EAST 8434

ELLIOTT R. HENDERSON COMPANY
APPRAISERS — ENGINEERS — OPERATORS — MANAGERS
FOR THE MINING INDUSTRY
416 - 30TH AVENUE NORTH
SEATTLE 2, WASHINGTON

DEPARTMENT OF THE INT.
Defense Minerals Admin.
RECEIVED
MAR 19 1954

March 17, 1954

Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Subject: D.M.E.A. #3275
Re: Exploration Assistance Ford Mine

Attention: Iron & Ferro Alloys Division

Gentlemen:

Will you please tell me how long it will take to get an answer to my application submitted March 4, 1954 for exploration assistance?

Thanking you for this information and awaiting your early reply, I am

Yours truly,

Elliott R. Henderson

Elliott R. Henderson

ERH:KCW

3292

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

March 12, 1954
Subject: DMEA-3275
Re: Exploration Assistance
Ford Mine

Mr. Elliott R. Henderson
416 - 30th Ave. North
Seattle, Washington

Dear Sir:

The receipt of your application dated March 4, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3275 and referred to the Iron and Ferro Alloys Division.

Kindly refer to DMEA-3275 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation's Control
and Statistics Division

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

March 12, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA-3275 Elliott R. Henderson

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 12 1954

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

March 8, 1954

Memorandum

To: Defense Minerals Exploration Administration
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan - Tungsten
Elliott R. Henderson
416 - 30th Avenue North, Seattle, Washington
Ford Mine, Inyo County, California

Attached are three of the four copies of an application for a DMEA loan of $29,500 for exploring the Ford Mine, twelve miles east of Independence, Inyo County, California. The application was received in this office on March 5.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 12 1954

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. 3275
Metal or Mineral Tungsten
Date Received
Estimated Cost $29,500
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: Elliott R. Henderson
416 - 30th Ave. North
Seattle, Wash.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
Please see lease enclosed for this information

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

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

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

(*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. See lease for this information

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

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

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

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

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

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

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

(*c*) The work will start within 15 days and be completed within ~~24~~ 60 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)? Yes

(*b*) How do you propose to furnish your share of the costs? $7,500.00

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated March 4, 1954

Elliott P. Henderson
(Applicant)

By

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

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

Elliott R. Henderson
416 - 30th Ave. North
Seattle, Washington

4. PHYSICAL DESCRIPTION

(a) This property has a tunnel in 10 feet, right off the road there is a good vein in this tunnel with a strong face of ore 7 x 8 feet, just below this tunnel is an open cut 25 x 40 feet with a shaft down 50 feet. The workings are very accessible being right on a good road. I did not do any of these operations.

(b) There has been shipped 161 tons of Tungsten ore that was settled for at .32% of 1% Tungsten

(c) Enclosed please find a quotation from a letter I received from Mr. Ford before I sured the lease.

"I have quite an extensive Tungsten property located in the Inyo Range some twelve miles East of Independence, which property has been looked over superficially by several mining engineers who are all of the opinion that, with proper development, this property should develop into one of the largest and most productive tungsten properties in this area.

"The ore body is in a contact between the lime and granite, varies in width, on the surface, from approximately three feet to approximately twenty feet. This contact can be traced from an elevation (insofar as my interests are concerned) of 7000' to approximately 9000' and covering a distance of approximately 7500'. Samples have been taken along this contact that show values in WO3 from .32% to above 4%. The values are contained in Tactite, altered and oxidized granite and Garnet. There has been some small amount of development work done on this property at the 7000' elevation, from which some 160 tons were shipped to U.S. Vanadium and averaged .38%.

"The U. S. Tungsten Corporation, who had a lease on the adjoining property constructed an access road through this property, at a cost of some $165,000.00, before becoming tied up in litigation with the owners of the adjoining property."

5. (d) There is a good access road 7 miles from the main highway that was put in by the U. S. Tungsten Corporation at a cost of $165,000. This road runs right through my property which is 12 miles from Independence, California. Independence is the shipping point supply center and residence district.

(e) There is plenty of manpower at Independence, also material supply etc. There is no water or power at the mine. The water we use will have to be hauled and power will be gas or diesel power.

. THE EXPLORATION PROJECT

(b) I want to start drifting on the vein that has the ten foot tunnel just off the road. This vein exposed has a good strong face 7 x 8 feet.

I want to run this tunnel in 750 feet and when the tunnel is in for this distance I want to sink a winze 250 feet on the ore.

(d) I have had 12 years experience in the banking business and twenty years experience as a practical mine operator. I will have a mining engineer who is a graduate of the School of Mines at Golden, Colorado and 30 years experience in all phases of mining as our consultant.

6. ESTIMATE OF COSTS

I have a bid from some very responsible mines that they will contract to furnish all equipment and supplies for the work and will take a contract for $15.00 per foot for the tunnel and $30.00 per foot for the winze.

(b) For this question, I feel sure $400.00 per month will be sufficient.

(c) The contractor will furnish all these items except rails and car.

(d) The contractor will furnish all of the equipment except rails for the tunnel and air and water pipe. We will furnish the ore car or cars.

(e) This is a new project so this question will not apply to us.

(f) New Buildings. We will not need any building except a Compressor House which will possibly cost $500.00 and tool house, $250.00.

(g) The only item in this will be an account at $300.00 per month. All other items in the question will be the obligation of the contractor.

(h) I would say $1,500.00 would be sufficient for this item.

I would like to say when the engineer goes to inspect this property that he write first to M. A. Carothers, Star Route, Lone Pine, California, who will see Mr. Ford and these gentlemen will take the engineer to the mine. They have a four wheel drive truck which is best to go up the hill with. The Dow Hotel at Lone Pine is a good place to stop and they know Mr. Carothers.

ELLIOTT R. HENDERSON
416 30th Avenue North
Seattle, Wash.

Estimate of Costs of the Proposed Project.

Cost of Tunnel	
750 feet @ $15.00 per foot	$11,250.00
Cost of Winze	
250 feet @ $30.00 per foot	7,500.00
Consulting Engineer	4,800.00
Operating Material	
I do not know what rails or pipe will cost but an ore car can be had for	100.00
New Buildings	
Compressor House	500.00
Tool House	250.00
Accountant	3,600.00
Contingencies	1,500.00
	29,500.00

RECEIVED
Public Lands & Mining Div.
RECORD
MAR 12 1954

MINING LEASE

THIS AGREEMENT, made and entered into this 24th day of FEBRUARY, 1954, by and between W. JOHN THOMPSON, 5122 Caynor, Encino, California and JAMES L. FORD, Box 61, Lone Pine, Inyo County, California, hereinafter call "OWNERS", and ELLIOT R. HENDERSON, 416 - 30th Avenue, North, Seattle, Washington, hereinafter called LESSEE:

W I T N E S S E T H:

WHEREAS, the said owners are the sole owners, subject only to the paramount title of the United States, of those certain unpatented mining claims known as and called:

NORTH JUMBO EXTENSION Claims #1, #2, #3, #4, #5, #6 and #7, notice of location of which is recorded in Volume 64, pages 1 to 7 inclusive, in the office of the County Recorder of the County of Inyo, State of California;

SUMMIT Claims #1, #2, and #3, notice of location of which is recorded in Volume 64, pages 16 to 18 inclusive, in the office of the County Recorder of the County of Inyo, State of California;

CONTACT Claims #1, #2, #3, #4, and #5, notice of location of which is recorded in Volume 64, pages 8 to 12 inclusive, in the office of the County Recorder of the County of Inyo, State of California; and

CINCH CLAIM, notice of location of which is recorded in Volume 64, page 15, of Mining Locations in the office of the County Recorder of the County of Inyo, State of California,

All of which are situated, lying and being in the Union Mining District in the County of Inyo, State of California, together with the improvements, tools, buildings, equipment and machinery situate thereon.

THEREFORE, for and in consideration of the rents, royalties, covenants and agreements, hereinafter set forth on the part of the Lessee to be paid, kept and performed, the Owners lease to Lessee and Lessee leases from Owners for a term beginning February 24, 1954, and ending February 22, 1964, and to grant to Lessee the option to renew this lease, upon the legal expiration thereof, for an additional five year period from the date of expiration and upon the same covenants, clauses and agreements of this indenture, those certain unpatented mining claims,

as describe herein on terms and conditions following.

THE LESSEE AGREES:

1. To enter upon said mining property, or premises, and to work said property in good mining fashion, in a manner necessary to result in good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the development of, and preservation of said property as a workable mine.

2. To well and sufficiently timber said mine at all points where necessary, in accordance with good mining, and to repair all old timbering whenever and wherever it may become necessary; to keep at all times the working drifts, shafts, tunnels and other workings thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualty.

3. To work said mines and properties as aforesaid, steadily and continuously, at least 40 man mine shifts per month beginning no later than 90 days from the date of this agreement, and a failure at any time to fully comply with such provisions shall constitute a default of this agreement.

4. To allow Owners and/or their agents to enter upon said mines and premises from time to time for purposes of inspection. Said Lessee further agrees that the Owners and/or their agents shall have the privilege, at all times during the life of this agreement, of posting in a conspicuous place on said mining claims, a notice in writing, to the effect that the work on said premises and the improvements thereon are being done solely at the expense of the Lessee and stating that the Owners will not be liable for any indebtedness for labor, material, or at all, created by said Lessee in connection with the work and operation of said property during the life of this agreement. Said Lessee further agrees that he will keep all notices, so placed on said property by the Owners, posted and that the same shall not be disturbed or removed by him.

5. That the Lessee will pay, or cause to be paid, all State and County taxes that may be levied or assessed against said premises buildings or fixtures, whether the said buildings, fixtures, or structures be the ones now situated upon said property, or whether they be the ones constructed by said Lessee, beginning with the year 1954 and to deliver to the Owners paid tax bills

at least fifteen days before such taxes become delinquent. Further that the Lessees will do, or cause to be done, the necessary annual assessment work upon all of said mining claims covered under this agreement, beginning with the assessment year 1954-1955, and prepare and record the affidavit of the performance of such work, said affidavit to show that the work was done for the Owners, and to be recorded not later than the 5th day of June of the following assessment year.

6. That the Lessee will cause all workment employed by him on said mining claims to be at all times fully covered by workman's compensation insurance in the manner and form required b the laws of the State of California, so as to hold and save said Owners and the property herein described from all liability for any injury that may be received by any of said workmen.

7. To pay promptly all labor and material bills and any all expenses incurred in the mining and development of the premises; to protect the Owners against any and all liability therefor.

8. To pay Owners, as royalty, ten percent (10%) of the gross mill or smelter returns of the gross returns of the ore buyer of all ores extracted from said mines and premises giving such instructions to smelter, mill or ore buyer that will insure that said percentage will be paid to Owners direct by the smelter, mill or ore buyer.

9. In the event that the Lessee fails to live up to any of the covenants of this lease, the Owners shall notify the Lessee in writing, at the Lessee's address hereinbefore mentioned, of such default by registered mail and the Lessee shall have thirty (30) days in which to correct such default; acts of God, the public enemy, labor troubles, strikes or extraordinary mining casualty shall not be considered as default of the covenants of this lease.

10. Upon the termination of this agreement for any cause the Lessee shall have the right, at any time within thirty days thereafter to remove any and all buildings, equipment of other improvements placed on said premises, by the Lessee, excepting timbering, ore bunkers and tramways of any type in the mines or on the premises.

11. That the Lessee will fully comply with any and all labor and mining laws of the United States and the State of California; and the Lessee will immediately upon receipt of all mill or smelter returns or receipts of the ore buyers, or analyses of assays, mail copies thereof to the Owners at their address

as given above.

14. Each and every clause of this indenture and each and every covenant of this indenture shall extend to the heirs, executors, administrators and lawful assigns of all parties hereto.

IN WITNESS WHEREOF, the said parties have hereunto set their hands.

/s/ JAMES B. FORD

/s/ M. JOHN THOMPSON, By James B. Ford

FOR THE OWNERS

/s/ ELLIOTT R. HENDERSON

LESSEE

STATE OF CALIFORNIA)
) SS
COUNTY OF INYO)

On this 24th day of February, 1954 before me the undersigned, notary public in and for the said county andstate, personally appeared JAMES B. FORD, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal.

/s/ WALTER JONES

Notary public in and for the County of Inyo
State of California.
My Commission Expires Dec. 7, 1954

STATE OF WASHINGTON)
) SS
COUNTY OF K I N G)

On this 26th day of February, 1954, before me the undersigned a notary public in and for the said county and the state, personally appeared ELLIOT R. HEDERSON, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS MY hand and official seal.

/s/ JAMES F. REED

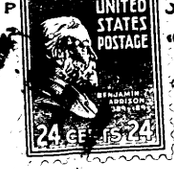
Notary Public in and for the County of
, State of Washington.

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICIAL BUSINESS

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

PENALTY FOR P
PAYMENT

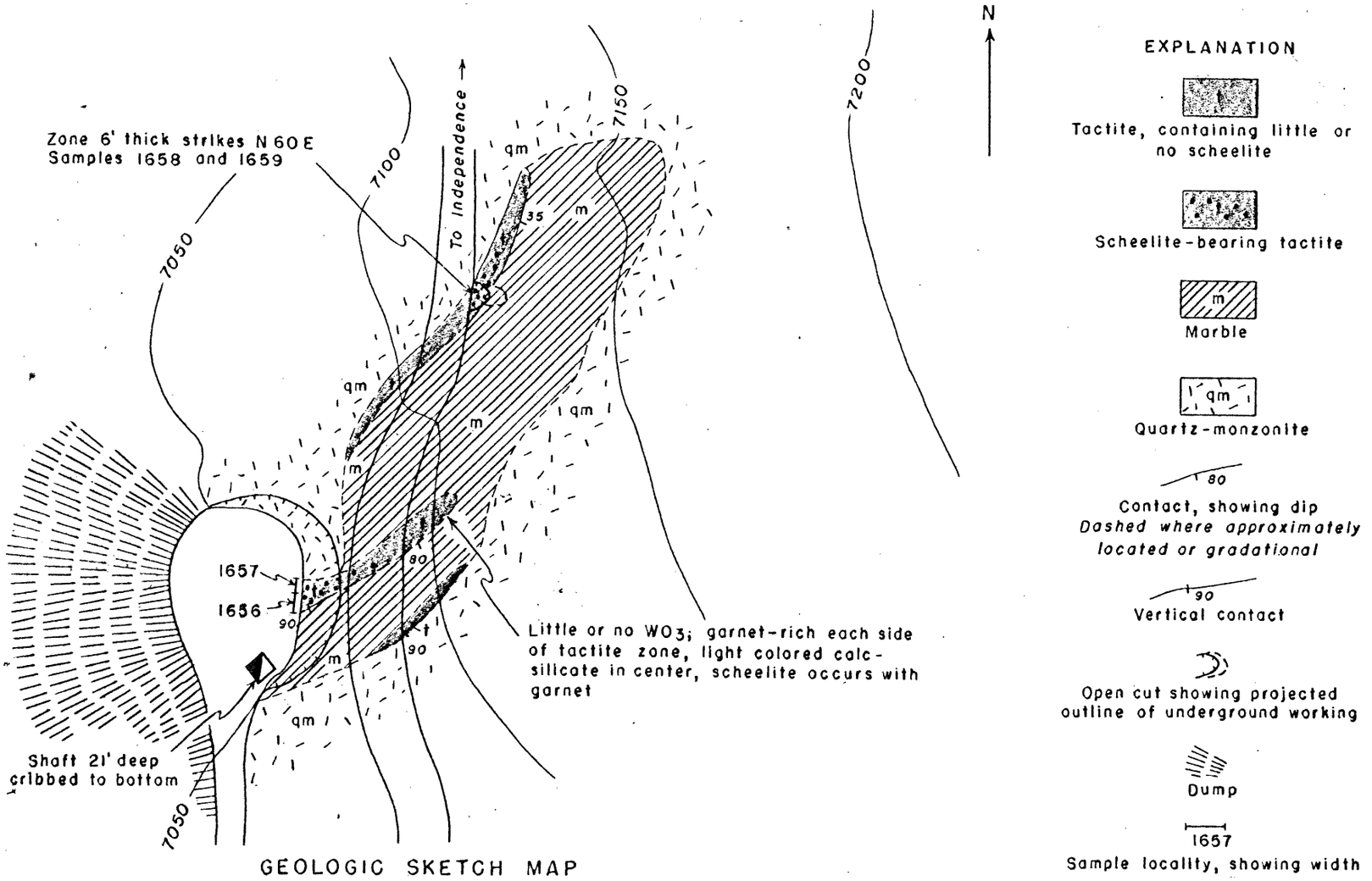


Defense Minerals Exploration Administration
Interior Bldg.
Washington 25, D.C.

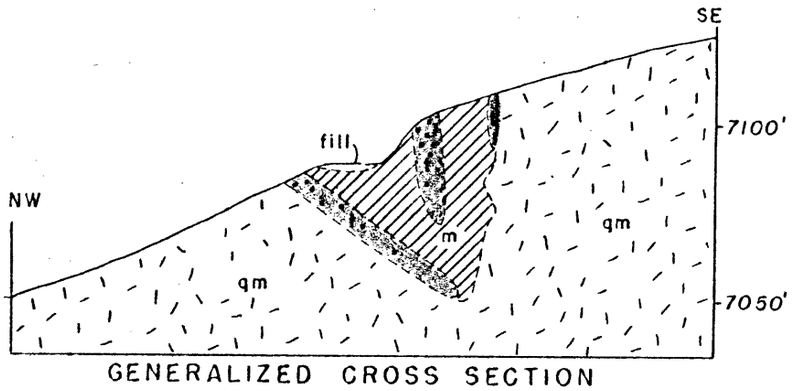
map
3275

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3275
(TUNGSTEN)



GEOLOGIC SKETCH MAP



GENERALIZED CROSS SECTION

Sample No.	% WO_3
1656	0.03
1657	0.03
1658	0.01
1659	0.03

Mapped by C.D. Rinehart
April, 1954

FORD PROSPECT, INYO COUNTY, CALIFORNIA

50 0 50 100 FEET