DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA- ~~DMA~~ Docket No. 2239

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EXPLORATION PROJECT

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.

Routing Slip

To:	IRON & FERRO ALLOYS	Date	11-21-51
To:	Houk	Date	12/3/51
To:	CODE 400-RM.3538	Date	2-28-52
To:	Op. Com.	Date	3-10-52
To:		Date	
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Three stages:

(1) Mapping, sampling & assaying
(2) Diamond drilling

Question

Replacement value of equipment on property - storage 1% allowed
Relation of supervision to labor is high

2/28/52

Mr. Selfridge:

History of attached "lost" tungsten docket:

John W. Mink, DMA 2239X - Tungsten
(11/21/51)

DMA 2239 was on the inventory list sent us yesterday from Mr. Adams' office, but we had no docket and no record in the journal of same.

Mr. Adams' office records show only the charge of 11/21/51 that docket was sent I & FA.

This afternoon, Mr. Geehan's memo came in with docket attached.

The docket control slip shows that somehow Mr. Houk got the docket on 12/3/51 and by his own writing and memo of 12/3/51 that he sent the case to Geehan of B/Mines and Lemmon of Geological Survey---but today Mr. Houk's office can find no record of correspondence on the case or even a listing of the number. These transfers or routings were not recorded in Mr. Adams' office.

Mr. Lemmon today says the application was never received in his office for review.

Conclusion: Now that Mr. Geehan has "unburied" the docket, maybe DMA better start action lest the applicant gets perturbed about what is happening to his loan application.

L. Scott

Am taking up with Lemmon.

Mr. John W. Mink
540 Ninth Street
Elko, Nevada

Re: Docket No. DMEA 2239 - Tungsten
John W. Mink
Mahank Group of Claims
Elko County, Nevada

Dear Mr. Mink:

Your request for exploration assistance and other reports concerning the Mahank Group available to us in Washington have been carefully reviewed.

This information, although noting the occurrence of a small amount of tungsten mineralization on your property, indicates to us that the probability of disclosing minerals are reserves by your proposed program is not sufficiently promising to justify Government participation. We regret, therefore, to inform you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge'lm
9/10/52

cc: Admn. Reading File
Docket
R. W. Graham, USBM
D. M. Lemmon, USGS
Field Town Reg. III
Operating Committee
W. S. Martin
F. A. Rutledge

Administrator, DMEA

Sept. 10, 1952

Iron and Ferro-Alloy Division, DMEA

Denial of application for exploration assistance in the amount of $60,065.00
Docket No. DMEA 2239 - Tungsten
John W. Mink
Mohawk Group of Claims
Elko County, Nevada

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

1. An examination by the field team indicated the property has little merit.

2. The field team recommends denial.

3. There is no geologic probability of finding any significant deposit of tungsten ore. The mineralized bodies are composed of irregular concentrations of scheelite in parallel tactite layers which range from a fraction of an inch to six feet in width, and are separated by layers of barren tactite and hornfels. A few spotty occurrences in the outcrops contain as much as 0.11 percent WO_3 but most of the mineralized areas contain less than 0.01 percent WO_3.

4. The Commodity Division of the Geological Survey recommends denial for the Mohawk group of claims. The applicant also has pending an application on another group of claims in the same district: Docket No. DMEA 2630 - Little Joe Group.

Signed

W. S. Martin, Acting Chief
Iron and Ferro-Alloy Division

FARutledge:lm
9/10/52

cc: Admn. Reading File
Docket
W. S. Martin
F. A. Rutledge

IN REPLY REFER TO:

G-MD-CF

400

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

September 8, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Field report DMEA 2239 - Tungsten
Mohawk claims
John W. Mink
Elko County, Nevada

These claims were examined June 26 and 27, 1952 by Glenn C. Gentry, U. S. Bureau of Mines, and R. M. Smith and M. M. Bell, U. S. Geological Survey. Their report, dated August 21, recommends denial of the application because the material exposed in outcrops contains 0.11 percent or less WO_3 (too little to be ore), the mineralized bodies are small, the chance of finding tungsten ore is poor, and the applicant's training and experience are not adequate for the conduct of an exploration program.

Mr. Mink filed an identical application July 28, 1952 (DMEA 2630) on the Little Joe group. I do not know whether Little Joe is a relocation of the Mohawk group or a separate group, information that should be requested from the Field Team.

I concur with the field report recommendation that the proposal be denied for exploration of the Mohawk group.

D. M. Lemmon

DMLemmon:gt

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

400

Office of
Executive Officer
DMPA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

August 28, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2239 (Tungsten), John W. Mink, Elko, Nevada
Mohawk Group of Mining Claims, Elko County, Nevada

Reference is made to "Review of Application for Exploration Assistance" submitted to this office on March 11, 1952, in connection with subject docket.

Attached are four copies of report entitled "DMEA-2239, Mohawk Group of Mining Claims, Elko County, Nevada, (Tungsten)," by Glenn G. Gentry, Mining Engineer, and Roscoe M. Smith and Mendell M. Bell, Geologists, dated August 21, 1952, covering subject property.

According to the examining team, the mineralized bodies are irregular concentrations of scheelite in parallel tactite layers which range from a fraction of an inch to six feet in width, and are separated by layers of barren tactite and hornfels. The mineralized bodies extend along the strike of the tactite layers for distances up to 10 feet; they have not been explored below the outcrops.

The best scheelite exposures are on the Pittsburg Silver No. 2 claim, where a few spotty occurrences in the outcrops contain as much as 0.11 percent WO_3, but no work has been done to determine the extent and continuity of the mineralized zones below the surface. As the grade of ore exposed in the outcrops is too low to be commercial, no estimate of ore reserves has been made.

It is recommended that the application be denied.

Docket is returned herewith.

S. Ricker, Acting for
H. C. Miller, Executive Officer
DMEA Field Team, Region III

Attachments
Copy to: E. H. Bailey, USGS

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2259, Mohawk Group of Mining Claims

Elko County, Nev.

- Tungsten -

Glenn S. Gentry, Mining Engineer
U. S. Bureau of Mines

Reece M. Smith, geologist
U. S. Geological Survey

Mendell M. Bell, geologist
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE

9-8-52
(date)

Aug 21-1952

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ILLUSTRATIONS

Figure 1. Index map of Nevada

Figure 2. Geologic sketch map of the J. W. Mink Tungsten Prospect.

Figure 3. Geologic sketch map of the Pittsburg Silver Claims.

Figure 4. Geologic sketch map of the Mohawk Claims.

Photographs

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Mr. J. W. Mink, 560 Ninth St., Elko, Nevada, Docket DMEA 2239 (Tungsten) applied November 15, 1954 to the Defense Minerals Exploration Administration for government participation in a $60,065 exploration program to be done on the Mohawk claims, Alder mining district, Elko County, Nevada. Mr. Mink proposed a program of geologic mapping, trenching, and diamond drilling.

The best scheelite exposures are on the Pittsburg Silver No. 2 claim, where a few spotty occurrences in the outcrops contain as much as 0.11 percent WO_3, but no work has been done to determine the extent and continuity of the mineralized zone below the surface. As the grade of ore exposed in the outcrops is too low to be commercial, no estimate of ore reserves has been made.

The possibility of making a significant discovery of tungsten is poor, and it is recommended that the application be denied.

INTRODUCTION

The Mohawk Group of Mining Claims and the surface exposures thereon were examined on June 26 and 27, 1952 by an engineer 1/ of the Bureau of Mines of Region III and geologists 2/ of the U. S. Geological Survey. Especial attention was devoted to the one area on the Pittsburg No. 2 claim which the applicant

---

1/ Glenn G. Gantry

2/ R. M. Smith and Mandell M. Ball

---

considered as offering the best opportunity for exploration work. Mr. John W. Mink accompanied the engineer and geologists during the examination.

LOCATION

The mine mining claims are reported as the Mohawk Group, and according to recent survey by Mr. W. Settlemeyer, Elko, Nevada, are located in sections 5, 6, 7, and 8, T. 45 N., R. 56 E., MDB and M.

The claims may be reached from Elko, Nevada by travelling northward via Nevada State Highway 43 for a distance of 66.3 miles over an all weather road, thence in a northeasterly direction, via an unimproved road for a distance of 17.4 miles. From this point the distance to the mine is approximately one mile east over a very rough, steep road. During the examination this portion of the road was impassable for any motor vehicle except a 6 wheel drive truck.

OWNERSHIP

The mining claims are held by location by J. W. Mink, who reports that all assessment work has been done and property recorded.

WATER

Adequate water could be supplied from Tennessee Creek for almost any size operation and the applicant states that he has applied to the office of the Nevada State Engineer for an adequate water right. To provide water for the mining operations where the applicant proposes to explore, it would be necessary to either haul the water or install a pump and pipeline from the creek.

POWER

The Idaho Power Company's 65,000 volt electric power line crosses the applicant's mining claims near the southern end of the Pittsburg Silver No. 2 claim. However, due to the high cost of electric power installations, all prospecting in the past has been done with machines having either diesel or gasoline engines.

LABOR

It is believed that a number of experienced miners could be obtained in Mountain City, Nevada as nearly all of the mines there have been closed down.

MINE DEVELOPMENT

One shallow Bulldozer trench (75' long X 3' deep X 10' wide) was made by the applicant about one year ago across a small exposure of tactite near the center of the Pittsburg No. 1 claim.

Another Bulldozer cut has been made across an exposure on the south side of Tennessee Creek on the Pittsburg No. 2 claim. The possible mineralized areas observed in the bulldozer cuts are of limited width. The following samples represent the grade of the tungsten:

Nos. 269, through 281, inclusive.

B.M. 269 - Sample width 31 inches. Pittsburg No. 1 claim. Small exposure in shallow bulldozer cut. East bank of the cut.

	% WO_3	Oz. Au/T
less than	0.01	Trace

B.M. 270 - Sample width 5.8 feet. Pittsburg No. 2 claim. Granite-epidote-limestone exposure. Southeast side of Tennessee Creek and about 100 feet above the creek.

	% WO_3	Oz. Au/T
less than	0.01	Trace

B.M. 271 - Sample width 4.8 feet. Pittsburg No. 2 claim. Exposure 73 feet from B.M. 270 and at same elevation.

	% WO_3	Oz. Au/T
less than	0.01	Trace

B.M. 272 - Sample width 13 ft. about 100 ft. above samples 270 and 271.

West face of the exposure. Heavy tantite with some garnet.

% WO_3	Oz. Au/T
0.11	Trace

B.M. 273 - Sample width 31 ft. Tantite, granite, quartz exposure about 75 ft. above samples 270 and 271.

The exposure sample is partially covered with top soil.

% WO_3	Oz/Au/T
less than 0.01	Trace

B.M. 274 - Sample width 5.3 ft.

Location - N. 20° W. - 32 ft. from sample 272.

% WO_3	Oz. Au/T
0.07	Trace

B.M. 275 - Sample width 7 ft. Exposure on north face of hill.

Considerable quartz mixed with epidote here.

Location - N. 20° E. - 25 ft. from sample 273.

% WO_3	Oz. Au/T
0.01	Trace

B.M. 276 - Sample width 7 ft. north side of Tennessee Creek and about 75 ft. above creek bed. East face of small open cut and on N W side of quartz stringers.

% WO_3	Oz. Au/T
less than 0.01	Trace

B.M. 277 - Sample width 6 inches. Narrow band of tantite and quartz showing garnet crystals.

Location - N. 60° W. - 100 ft. from sample 276.

% WO_3	Oz. Au/T
less than 0.01	Trace

Additional samples were taken on the Mohawk claim and other claims in locations where the applicant stated that he had observed scheelite.

B.M. 278 - Sample width 3.4 ft. - Taken on the Mohawk claim and N. 85° W. - 300 feet from the Mohawk shaft. Total width of the tactite exposure is not known as it is covered with soil.

% WO_3	Oz. Au/T
0.01	Trace

B.M. 279 - Sample width 9 1/2 inches. Mohawk claim and S. 45° E. from east side center line of claim. Very small exposure of white quartz.

% WO_3	Oz. Au/T
0.01	0.01

B.M. 280 - Sample width 4.3 ft. Taken on the Mohawk No. 2 claim. South side of hill and north of E-W gulch. Small exposure of tactite.

% WO_3	Oz. Au/T
less than 0.01	Trace

B.M. 281 - Sample width 3.5 ft. Taken on the Mohawk No. 3 claim and 300 ft. east of sample 280. Small exposure of tactite.

% WO_3	Oz. Au/T
less than 0.01	Trace

All sampling was done during daylight hours and prior to the inspection by minerslight at night.

On page 2, item 16, the applicant states that the property was explored by a shaft 55 ft. in depth and by a crosscut and drift totaling 460 feet in length, driven for gold and silver. However, the examining engineers found the shaft had caved in at about 10 feet below the collar and the portal of an adit,

reported to connect with the shaft, was also closed by a cave in. Therefore, it was impossible to examine any underground workings.

No production of tungsten ore has been made from this group of mining claims and the applicant appears to have only vague ideas as to where and how his proposed exploration work would be done.

CLIMATE AND TOPOGRAPHY

The mining claims are situated in rough country and at an elevation of approximately 7,000 ft. above sea level. During the period from December through March severe storms could be expected and a heavy snowfall probably occurs during these months. From an economical viewpoint, these conditions indicate expensive and difficult mining operations during the winter months. No buildings of any type are available on the property.

APPLICANT'S EXPERIENCE

Mr. Mink resides, during the summer months, on a small ranch property owned by his wife and located approximately 7 miles west of the Mohawk claims. During these summer months he is engaged part of the time in road construction and other types of construction work by the ranchers in the area and in prospecting and in relocating various mining claims that have been abandoned.

His mining experience seems to have been confined to several of the small mines located in the immediate area adjacent to his ranch and he has had a very limited experience in mining tungsten deposits. Any work contemplated on the Mohawk Group of claims, should therefore be done under the supervision of a thoroughly experienced tungsten operator.

GEOLOGY

The rocks in the area are limestone and shale of Paleozoic age which are intruded by a granodiorite stock and partly covered by a rhyolite flow of Tertiary age. Near the granodiorite contact the sedimentary rocks are also

intruded by dikes ranging in composition from alaskite to diorite. Near the dikes the sedimentary rocks are partly metamorphosed to tactite; scheelite is associated with the tactite.

The limestone is thin-bedded and shaly; it is interbedded with shales and calcareous shales. On the Pittsburg silver No. 2 claim (fig. 3), the sedimentary rocks strike N. 20° W. and dip 60°-80° W.; on the Mohawk claims (fig. 4) they strike northeast and dip 20°-60° northeast.

The granodiorite is medium grained and forms a large stock (fig. 2). Adjacent to the granodiorite the sedimentary rocks are cut by granitic dikes and sills as much as 200 feet thick which are commonly siliceous but range in composition from alaskite to diorite. The granitic and sedimentary rocks are cut by quartz stringers, aplite dikes, and pegmatite dikes as much as six inches wide. The limestone beds adjacent to the granitic rocks are metamorphosed to tactite layers, and the shale beds are metamorphosed to hornfels.

On the Pittsburg Silver No. 1 claim (fig. 2) the sedimentary rocks are partly covered by the southeast edge of an extensive rhyolite flow several hundred feet thick.

ORE DEPOSITS

The mineralized bodies are irregular concentrations of scheelite in parallel tactite layers which range from a fraction of an inch to six feet in width, and are separated by layers of barren tactite and hornfels. The mineralized bodies extend along the strike of the tactite layers for distances up to 10 feet; they have not been explored below the outcrops.

The best exposures of scheelite are on the Pittsburg Silver No. 2 claim (samples BM 270 and BM 272 - fig. 3). Here a tactite layer 6 feet wide contains scheelite in joint cracks and, locally, disseminated throughout the layer in

concentrations up to 0.11 percent WO_3. Another parallel layer 5 feet wide contains as much as 0.01 percent WO_3 and is exposed at the site of sample BM271 50 feet east of the 6-foot layer. The intervening 50 feet for the most part is covered by alluvium but the outcrops were found to contain sparse scheelite-bearing material containing up to 0.01 percent WO_3 (sample BM275).

ORE RESERVES

There are no ore reserves on the Mohawk, Pittsburg Silver, and Homestake claims.

PROPOSED EXPLORATION

The applicant has no definite plan of exploration but has proposed a $60,065 program of geologic mapping, trenching, and diamond drilling.

The amount requested by the applicant is excessive and the grade of material exposed is too low to justify government participation.

CONCLUSIONS AND RECOMMENDATIONS

As the grade of material exposed on the Mohawk and Pittsburg Silver claims is too low grade to be commercial, no ore reserves can be inferred. The possibility of making a significant discovery of tungsten is poor and it is recommended, therefore, that the application be denied.

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
18 August 1952

Memorandum

To: Mr. A. C. Johnson

From: Ralph J. Roberts

Subject: DMEA-2239, J. W. Mink, Mohawk Tungsten Prospect, Elko County, Nevada

Enclosed are six copies of a joint Bureau-Survey report on the subject docket which were typed in this office and are ready for mailing to the Field Team, Region III.

We have kept one copy of the report but will appreciate a copy of your letter of transmittal.

for - Ralph J. Roberts

file
401

Mr. John W. Wink
560 Ninth Street
Elko, Nevada

Re: Docket No. DMEA 2239X - Tungsten
Mohawk Group
Elko County, Nevada

Dear Mr. Wink:

Your application for assistance in exploring the above referenced property has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration and has been referred to Mr. E. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you may be able to give the members of the field team during the examination will be appreciated.

Sincerely yours,

G. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GLBrewer'lm
3/7/52

cc: Admn. Reading File
Docket
E. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
S. C. Selfridge
G. L. Brewer

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

Code for file

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant John W. Hink

Docket No. 2239

Commodity Tungsten

Amount $ 60,065.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2239

Commodity tungsten

Total Amount $60,065

Govt. Participation 75%

1. Name and Address of Applicant John W. Mink, et als.
560 Ninth St, Elko, Nevada

2. Location of Property Mohawk group of 18 Claims in
Secs 5, 6, 7 and 8; T45N; R56E; M.D.B+M.
Elko County, Nevada

3. Mineral or metal ~~tungsten~~ Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery--based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know--needs field examination No data in Washington

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future

productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes but should be checked

b) Equipment and supplies No, there is too much listed for exploration only
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes (Should use diesel power on exploration and avoid high transformer installation cost.

Is a field check needed on any of these points? Yes, check on all points

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Not quite, should be checked, particularly as to managerial ability

Is a field check needed on this point? Yes

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? No - Aside from general geology there is no specific program set forth.

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No maps in application - Field team should prepare local maps, showing work to be done

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? Yes, but in insufficient manner

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? no If so, attach a draft.

e) Are the cost estimates reasonable? No. Nearly all are too high -

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? No - depreciation basis should be used where applicable

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed? Don't know

c) Is the schedule excessive for the work proposed? yes, as to total supervisory amounts.

d) Are the proposed wages and salaries reasonable? probably, except as to foreman and engineer

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Don't know.

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? — Yes —

15. In your judgment, can the proposed work be done in the proposed time? Don't know.

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Yes. This property may have merit but we have no data whatever. The field team is requested to make an examination of the property, ~~geology~~ and, in company with the applicant, prepare a revised ~~amended~~ application to best ~~[illegible]~~ accomplish a suitable exploration program. Only such equipment, buildings, etc as are essential to the exploration are to be included in the revised ~~amended~~ application. Samples are to be run for tungsten and gold. Because of the large length of mineralization, perhaps

The exploration may be done in two stages; the first a general exploration and the second a more detailed program centered on the best area located under the stage.

Reviewed by: J. A. Brewer

Date 3/5-52

Inc.
1- M7 103
1- graph
1- USGS Opinion

IN REPLY REFER TO:

C-MD-DML

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

I & 7A file

March 3, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, U.S.G.S.

Subject: Exploration application $60,065 DMEA 2239 - Tungsten
John W. Mink
560 Ninth St.
Elko, Nevada

Property: Mohawk group of 18 claims in secs. 5, 6, 7 and 8, T. 45 N., R. 56 E., Mt. Diablo meridian (Erroneously given by applicant as R. 7 E. Boise meridian), Rowland quadrangle, Elko County, Nevada, northwest of Tennessee Mountain and adjoining claims held by Montrose Brothers and Knowles Brothers.

Conclusions: The claims held by the applicant are in an area that contains tungsten mineralization. The property has not been examined or mapped by the Geological Survey.

The applicant has submitted no maps or definite exploration proposal. The costs proposed are excessively large with regard to supervision, capital expenditures for buildings and equipment, and rental value of operator's equipment.

Recommendation: It is recommended that the application be referred to the Field Team, Region III, San Francisco for a report on the property.

DM Lemmon

DMLemmon:gt

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

I-7A

February 28, 1952

Memorandum

To: Mr. H. C. Selfridge, D.M. .A.

From: Mr. R. W. Geehan, Bureau of Mines

Subject: Exploration Application 460,065. DMLA-2239
John W. Mink
560 Ninth Street
Elko, Nevada

Property: McLeod group.
Secs. 5,6,7, and 8, T.45N., R.7.E., M.D.B.&M.,
Elko County, Nevada

Proposal: Geologic mapping and "engineering studies", trenching and cross-cutting; diamond drilling.

Recommendation: The application is not complete because of lack of information on the exploration proposed, and lack of even a sketch map of the area. I suggest that the applicant be requested to furnish this additional information.

Robert W. Geehan

RWGeehan:elk

cc: Mr. Geehan
Ferrous M&A
Mr. Katlin
Mr. Selfridge
Mink Files

FILE COPY
SURNAME:

Rutledge
Martin
Sylvester
Thayer
Hedges
Johnson
Mink

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

SEP 16 1952

Mr. John W. Mink
560 Ninth Street
Elko, Nevada

Re: Docket No. DMEA 2239 - Tungsten
John W. Mink
Mohawk Group of Claims
Elko County, Nevada

Dear Mr. Mink:

Your request for exploration assistance and other reports concerning the Mohawk Group available to us in Washington have been carefully reviewed.

This information, although noting the occurrence of a small amount of tungsten mineralization on your property, indicates to us that the probability of disclosing mineable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret, therefore, to inform you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf (fw) 9/16/52

Administrator

FARutledge'lm
9/10/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
Operating Committee
W. S. Martin
F. A. Rutledge

FILE COPY
SURNAME:

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

Administrator, DMEA

Sept. 10, 1952

Rutledge
Martin
Gehan

Iron and Ferro-Alloy Division, DMEA

Denial of application for exploration assistance in the amount of $60,065.00
Docket No. DMEA 2239 - Tungsten
John W. Mink
Mohawk Group of Claims
Elko County, Nevada

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

1. An examination by the field team indicated the property has little merit.

2. The field team recommends denial.

3. There is no geologic probability of finding any significant deposit of tungsten ore. The mineralized bodies are composed of irregular concentrations of scheelite in parallel tactite layers which range from a fraction of an inch to six feet in width, and are separated by layers of barren tactite and hornfels. A few spotty occurrences in the outcrops contain as much as 0.11 percent WO_3 but most of the mineralized areas contain less than 0.01 percent WO_3.

4. The Commodity Division of the Geological Survey recommends denial for the Mohawk group of claims. The applicant also has pending an application on another group of claims in the same district: Docket No. DMEA 2630 - Little Joe Group.

Signed 9/16/52

W. S. Martin, Acting Chief
Iron and Ferro-Alloy Division

FARutledge'lm
9/19/52

cc: Admn. Reading File
Docket
W. S. Martin
F. A. Rutledge

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA DATE: Sept. 10, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Denial of application for exploration assistance in the amount of $60,065.00
Docket No. DMEA 2239 - Tungsten
John W. Mink
Mohawk Group of Claims
Elko County, Nevada

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

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2. The field team recommends denial.

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W S Martin
W. S. Martin, Acting Chief
Iron and Ferro-Alloy Division

IN REPLY REFER TO:

G-MD-CF

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

September 8, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Field report DMEA 2239 - Tungsten
Mohawk claims
John W. Mink
Elko County, Nevada

These claims were examined June 26 and 27, 1952 by Glenn G. Gentry, U. S. Bureau of Mines, and R. M. Smith and M. M. Bell, U. S. Geological Survey. Their report, dated August 21, recommends denial of the application because the material exposed in outcrops contains 0.11 percent or less WO_3 (too little to be ore), the mineralized bodies are small, the chance of finding tungsten ore is poor, and the applicant's training and experience are not adequate for the conduct of an exploration program.

Mr. Mink filed an identical application July 28, 1952 (DMEA 2630) on the Little Joe group. I do not know whether Little Joe is a relocation of the Mohawk group or a separate group, information that should be requested from the Field Team.

I concur with the field report recommendation that the proposal be denied for exploration of the Mohawk group.

D. M. Lemmon

D. M. Lemmon

Copy retained 400

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

Office of
Executive Officer
DMPA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

August 28, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2239 (Tungsten), John W. Mink, Elko, Nevada
Mohawk Group of Mining Claims, Elko County, Nevada

Reference is made to "Review of Application for Exploration Assistance" submitted to this office on March 11, 1952, in connection with subject docket.

Attached are four copies of report entitled "DMEA-2239, Mohawk Group of Mining Claims, Elko County, Nevada, (Tungsten)," by Glenn G. Gentry, Mining Engineer, and Roscoe M. Smith and Mendell M. Bell, Geologists, dated August 21, 1952, covering subject property.

According to the examining team, the mineralized bodies are irregular concentrations of scheelite in parallel tactite layers which range from a fraction of an inch to six feet in width, and are separated by layers of barren tactite and hornfels. The mineralized bodies extend along the strike of the tactite layers for distances up to 10 feet; they have not been explored below the outcrops.

The best scheelite exposures are on the Pittsburg Silver No. 2 claim, where a few spotty occurrences in the outcrops contain as much as 0.11 percent WO_3, but no work has been done to determine the extent and continuity of the mineralized zones below the surface. As the grade of ore exposed in the outcrops is too low to be commercial, no estimate of ore reserves has been made.

It is recommended that the application be denied.

Docket is returned herewith.

S. Ricker, Acting for
H. C. Miller, Executive Officer
DMEA Field Team, Region III

Attachments
Copy to: E. H. Bailey, USGS

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2239, Mohawk Group of Mining Claims

Elko County, Nev.

- Tungsten -

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

Roscoe M. Smith, geologist
U. S. Geological Survey

Mendell M. Bell, geologist
U. S. Geological Survey

Aug 21-1952

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ILLUSTRATIONS

Figure 1. Index map of Nevada

Figure 2. Geologic sketch map of the J. W. Mink Tungsten Prospect.

Figure 3. Geologic sketch map of the Pittsburg Silver Claims.

Figure 4. Geologic sketch map of the Mohawk Claims.

Photographs

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Mr. J. W. Mink, 560 Ninth St., Elko, Nevada, Docket DMEA 2239 (Tungsten) applied November 15, 1951, to the Defense Minerals Exploration Administration for government participation in a $60,065 exploration program to be done on the Mohawk claims, Alder mining district, Elko County, Nevada. Mr. Mink proposed a program of geologic mapping, trenching, and diamond drilling.

The best scheelite exposures are on the Pittsburg Silver No. 2 claim, where a few spotty occurrences in the outcrops contain as much as 0.11 percent WO_3, but no work has been done to determine the extent and continuity of the mineralized zone below the surface. As the grade of ore exposed in the outcrops is too low to be commercial, no estimate of ore reserves has been made.

The possibility of making a significant discovery of tungsten is poor, and it is recommended that the application be denied.

INTRODUCTION

The Mohawk Group of Mining Claims and the surface exposures thereon were examined on June 26 and 27, 1952 by an engineer 1/ of the Bureau of Mines of Region III and geologists 2/ of the U. S. Geological Survey. Especial attention was devoted to the one area on the Pittsburg No. 2 claim which the applicant

---

1/ Glenn G. Gentry

2/ R. M. Smith and Mendell M. Bell

---

considered as offering the best opportunity for exploration work. Mr. John W. Mink accompanied the engineer and geologists during the examination.

LOCATION

The nine mining claims are reported as the Mohawk Group, and according to recent survey by Mr. W. Settlemeyer, Elko, Nevada, are located in sections 5, 6, 7, and 8, T. 45 N., R. 56 E., MDB and M.

The claims may be reached from Elko, Nevada by travelling northward via Nevada State Highway 43 for a distance of 66.3 miles over an all weather road, thence in a northeasterly direction, via an unimproved road for a distance of 17.4 miles. From this point the distance to the mine is approximately one mile east over a very rough, steep road. During the examination this portion of the road was impassable for any motor vehicle except a 6 wheel drive truck.

OWNERSHIP

The mining claims are held by location by J. W. Mink, who reports that all assessment work has been done and property recorded.

WATER

Adequate water could be supplied from Tennessee Creek for almost any size operation and the applicant states that he has applied to the office of the Nevada State Engineer for an adequate Water right. To provide water for the mining operations where the applicant proposes to explore, it would be necessary to either haul the water or install a pump and pipeline from the creek.

POWER

The Idaho Power Company's 65,000 volt electric power line crosses the applicant's mining claims near the southern end of the Pittsburg Silver No. 2 claim. However, due to the high cost of electric power installations, all prospecting in the past has been done with machines having either diesel or gasoline engines.

LABOR

It is believed that a number of experienced miners could be obtained in Mountain City, Nevada, as nearly all of the mines there have been closed down.

MINE DEVELOPMENT

One shallow Bulldozer trench (75' long X 3' deep X 10' wide) was made by the applicant about one year ago across a small exposure of tactite near the center of the Pittsburg No. 1 claim.

Another Bulldozer cut has been made across an exposure on the south side of Tennessee Creek on the Pittsburg No. 2 claim. The possible mineralized areas observed in the bulldozer cuts are of limited widths. The following samples represent the grade of the tungsten:

Nos. 269, through 281, inclusive.

B.M. 269 - Sample width 31 inches. Pittsburg No. 1 claim. Small exposure in shallow bulldozer cut. East bank of the cut.

	% WO_3	Oz. Au/T
less than	0.01	Trace

B.M. 270 - Sample width 5.8 feet. Pittsburg No. 2 claim. Granite-epidote-limestone exposure. Southeast side of Tennessee Creek and about 100 feet above the creek.

	% WO_3	Oz. Au/T
less than	0.01	Trace

B.M. 271 - Sample width 4.6 feet. Pittsburg No. 2 claim. Esposure 73 feet from B.M. 270 and at same elevation.

	% WO_3	Oz. Au/T
less than	0.01	Trace

B.M. 272 - Sample width 13 ft. about 100 ft. above samples 270 and 271.

West face of the exposure. Heavy tactite with some garnet.

% WO_3	Oz. Au/T
0.11	Trace

B.M. 273 - Sample width 31 ft. Tactite, granite, quartz exposure about 75 ft. above samples 270 and 271.

The exposure sample is partially covered with top soil.

% WO_3	Oz/Au/T
less than 0.01	Trace

B.M. 274 - Sample width 5.3 ft.

Location - N. 20° W. - 32 ft. from sample 272.

% WO_3	Oz. Au/T
0.07	Trace

B.M. 275 - Sample width 7 ft. Exposure on north face of hill.

Considerable quartz mixed with epidote here.

Location - N. 20° E. - 25 ft. from sample 273.

% WO_3	Oz. Au/T
0.01	Trace

B.M. 276 - Sample width 7 ft. north side of Tennessee Creek and about 75 ft. above creek bed. East face of small open cut and on H W side of quartz stringers.

% WO_3	Oz. Au/T
less than 0.01	Trace

B.M. 277 - Sample width 6 inches. Narrow band of tactite and quartz showing garnet crystals.

Location - N. 60° W. - 100 ft. from sample 276.

% WO_3	Oz. Au/T
less than 0.01	Trace

Additional samples were taken on the Mohawk claim and other claims in locations where the applicant stated that he had observed scheelite.

B.M. 278 - Sample width 3.4 ft. - Taken on the Mohawk claim and N. 85° W. - 300 feet from the Mohawk shaft. Total width of the tactite exposure is not known as it is covered with soil.

% WO_3	Oz. Au/T
0.01	Trace

B.M. 279 - Sample width 9 1/2 inches. Mohawk claim and S. 45° E. from east side center line of claim. Very small exposure of white quartz.

% WO_3	Oz. Au/T
0.01	0.01

B.M. 280 - Sample width 4.3 ft. Taken on the Mohawk No. 2 claim. South side of hill and north of E-W gulch. Small exposure of tactite.

% WO_3	Oz. Au/T
less than 0.01	Trace

B.M. 281 - Sample width 3.5 ft. Taken on the Mohawk No. 3 claim and 300 ft. east of sample 280. Small exposure of tactite.

% WO_3	Oz. Au/T
less than 0.01	Trace

All sampling was done during daylight hours and prior to the inspection by mineralight at night.

On page 2, item 16, the applicant states that the property was explored by a shaft 55 ft. in depth and by a crosscut and drift totaling 460 feet in length, driven for gold and silver. However, the examining engineers found the shaft had caved in at about 10 feet below the collar and the portal of an adit,

reported to connect with the shaft, was also closed by a cave in. Therefore, it was impossible to examine any underground workings.

No production of tungsten ore has been made from this group of mining claims and the applicant appears to have only vague ideas as to where and how his proposed exploration work would be done.

CLIMATE AND TOPOGRAPHY

The mining claims are situated in rough country and at an elevation of approximately 7,000 ft. above sea level. During the period from December through March severe storms could be expected and a heavy snowfall probably occurs during these months. From an economical viewpoint, these conditions indicate expensive and difficult mining operations during the winter months. No buildings of any type are available on the property.

APPLICANT'S EXPERIENCE

Mr. Mink resides, during the summer months, on a small ranch property owned by his wife and located approximately 7 miles west of the Mohawk claims. During these summer months he is engaged part of the time in road construction and other types of construction work by the ranchers in the area and in prospecting and in relocating various mining claims that have been abandoned.

His mining experience seems to have been confined to several of the small mines located in the immediate area adjacent to his ranch and he has had a very limited experience in mining tungsten deposits. Any work contemplated on the Mohawk Group of claims, should therefore be done under the supervision of a thoroughly experienced tungsten operator.

GEOLOGY

The rocks in the area are limestone and shale of Paleozoic age which are intruded by a granodiorite stock and partly covered by a rhyolite flow of Tertiary age. Near the granodiorite contact the sedimentary rocks are also

intruded by dikes ranging in composition from alaskite to diorite. Near the dikes the sedimentary rocks are partly metamorphosed to tactite; scheelite is associated with the tactite.

The limestone is thin-bedded and shaly; it is interbedded with shales and calcareous shales. On the Pittsburg silver No. 2 claim (fig. 3), the sedimentary rocks strike N. 20° W. and dip 60°-80° W.; on the Mohawk claims (fig. 4) they strike northwest and dip 20°-60° northeast.

The granodiorite is medium grained and forms a large stock (fig. 2). Adjacent to the granodiorite the sedimentary rocks are cut by granitic dikes and sills as much as 200 feet thick which are commonly siliceous but range in composition from alaskite to diorite. The granitic and sedimentary rocks are cut by quartz stringers, aplite dikes, and pegmatite dikes as much as six inches wide. The limestone beds adjacent to the granitic rocks are metamorphosed to tactite layers, and the shale beds are metamorphosed to hornfels.

On the Pittsburg Silver No. 1 claim (fig. 2) the sedimentary rocks are partly covered by the southeast edge of an extensive rhyolite flow several hundred feet thick.

ORE DEPOSITS

The mineralized bodies are irregular concentrations of scheelite in parallel tactite layers which range from a fraction of an inch to six feet in width, and are separated by layers of barren tactite and hornfels. The mineralized bodies extend along the strike of the tactite layers for distances up to 10 feet; they have not been explored below the outcrops.

The best exposures of scheelite are on the Pittsburg Silver No. 2 claim (samples BM 270 and BM 272 - fig. 3). Here a tactite layer 6 feet wide contains scheelite in joint cracks and, locally, disseminated throughout the layer in

concentrations up to 0.11 percent WO_3. Another parallel layer 5 feet wide contains as much as 0.01 percent WO_3 and is exposed at the site of sample BM271 50 feet east of the 6-foot layer. The intervening 50 feet for the most part is covered by alluvium but the outcrops were found to contain sparse scheelite-bearing material containing up to 0.01 percent WO_3 (sample BM275).

ORE RESERVES

There are no ore reserves on the Mohawk, Pittsburg Silver, and Homestake claims.

PROPOSED EXPLORATION

The applicant has no definite plan of exploration but has proposed a $60,065 program of geologic mapping, trenching, and diamond drilling.

The amount requested by the applicant is excessive and the grade of material exposed is too low to justify government participation.

CONCLUSIONS AND RECOMMENDATIONS

As the grade of material exposed on the Mohawk and Pittsburg Silver claims is too low grade to be commercial, no ore reserves can be inferred. The possibility of making a significant discovery of tungsten is poor and it is recommended, therefore, that the application be denied.

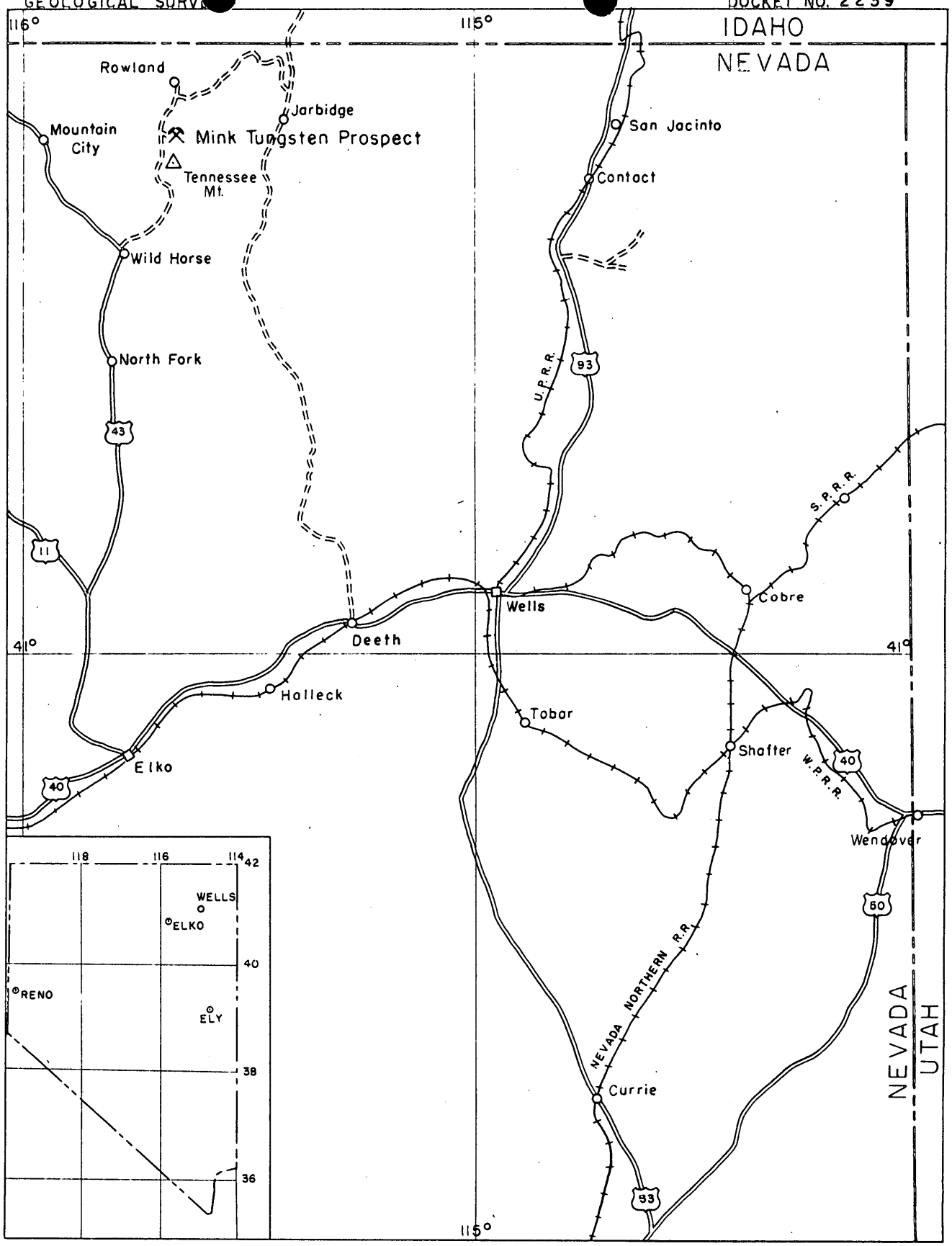


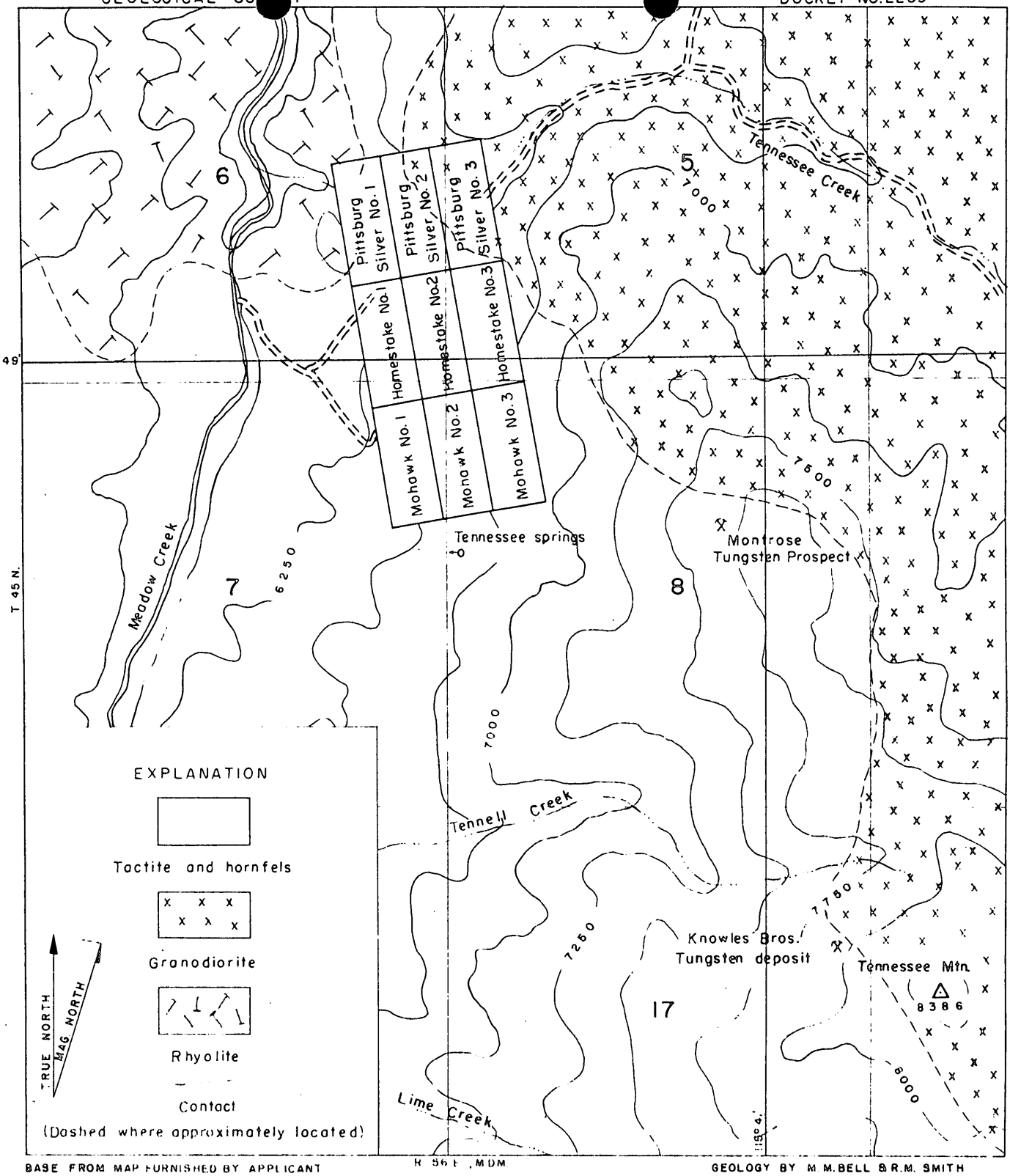
FIG. 1 INDEX MAP OF NEVADA

0 10 20 30 40 Miles

Scale 1:1,000,000

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2239



BASE FROM MAP FURNISHED BY APPLICANT AND FROM U S G S. ROWLAND QUADRANGLE

GEOLOGY BY M. M. BELL & R. M. SMITH

FIG. 2

GEOLOGIC SKETCH MAP OF THE J. W. MINK TUNGSTEN PROSPECT

ELKO COUNTY, NEVADA

0 ½ 1 MILE
Scale

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
18 August 1952

Memorandum

To: Mr. A. C. Johnson

From: Ralph J. Roberts

Subject: DMEA-2239, J. W. Mink, Mohawk Tungsten Prospect, Elko County, Nevada.

Enclosed are six copies of a joint Bureau-Survey report on the subject docket which were typed in this office and are ready for mailing to the Field Team, Region III.

We have kept one copy of the report but will appreciate a copy of your letter of transmittal.

for - Ralph J. Roberts

FILE COPY
SURNAME:

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

Brewer
Selfridge
Hedges
Johnson

MAR 11 1952

Mr. John W. Mink
560 Ninth Street
Elko, Nevada

Re: Docket No. DMEA 2239X - Tungsten
Mohawk Group
Elko County, Nevada

Dear Mr. Mink:

Your application for assistance in exploring the above referenced property has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you may be able to give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittenderf (fw) CC 3/11

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer:lm
3/7/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
G. C. Selfridge
Q. L. Brewer

July 1 - F.T meeting for better and other conditions

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

Brewer.
Selfridge.

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant John W. Mink

Docket No. 2239

Commodity Tungsten

Amount $ 60,065.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

Frank E. Johnson

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2239

Commodity Tungsten

Total Amount $60,065.00

Govt. Participation 75%

1. Name and Address of Applicant John W. Mink, et al
560 Ninth Street
Elko, Nevada

2. Location of Property Mohawk Group of 18 claims

Secs. 5,6,7 and 8; T45N; R56E; M.D.B.&M.

Elko County, Nevada

3. Mineral or metal Tungsten Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery--based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know--needs field examination No data in Washington

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? -----

Does the lease have sufficient time to run to cover a future

productive period? -----

*question numbers are those of MF-103

7. Are subordination agreements necessary? **No**

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower **Yes, but should be checked.**

b) Equipment and supplies **No, there is too much listed for exploration only.**
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* **Yes**

d) Water (question 13)* **Yes**

e) Power (question 13)* **Yes (Should use diesel power on exploration and avoid transformer installation cost).**

Is a field check needed on any of these points? **Yes, check on all points.**

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* **Not quite, should be checked, particularly as to managerial ability.**

Is a field check needed on this point? **Yes**

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? **No - Aside from general geology there is no specific program set forth.**

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? **No maps in application. If worthwhile, Field team should prepare sketch local map, showing work to be done.**

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? **Yes**

If not, what part of it is? _____

Is this part a worthwhile exploration project? ----

d) Are the cost estimates detailed? **Yes, but in an insufficient manner.**

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? **No** If so, attach a draft.

e) Are the cost estimates reasonable? **No, nearly all are too high.**

f) Should more information be requested from applicant? **Yes**

g) Is a field examination necessary to complete Exhibit A? **Yes**

11. Exhibit B (question 23-d)*

a) Is it applicable? **Yes**

b) If so, are sufficient data furnished? **No** If so, attach a draft.

c) Is a field check needed? **Yes**

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? **Yes**

b) Sufficient data? **No** If so, attach a draft.

c) Are rents and charges reasonable? **No, depreciation basis should be used where applicable.**

d) Is a field check needed? **Yes**

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? **No**

b) Is the schedule adequate for the work proposed? **Don't know.**

c) Is the schedule excessive for the work proposed? **Yes, as to total supervisory amounts.**

d) Are the proposed wages and salaries reasonable? **Probably, except as to foreman and engineer.**

e) Is a field check needed? **Yes**

14. Exhibit E (question 23-c)*

a) Is it applicable? Don't know.

b) Sufficient data? -----

c) Reasonable? -----

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Don't know.

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Yes. This property may have merit but we have no data whatever. The field team is requested to make an examination of the property, and, in company with the applicant, prepare a revised application to best accomplish a suitable exploration program. Only such equipment, buildings, etc. as are essential to the exploration are to be included in the revised application. Samples are to be run for tungsten and gold. Because of the large length of mineralization, perhaps the exploration may be done in two stages; the first, a general exploration and the second, a more detailed program centered on the best area located under the first stage.

Reviewed by: Q. L. Brewer

Enclosures:

1 - MF-103
1 - Graph
1 - USGS Opinion

Date March 5, 1952

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

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant John W. Mink

Docket No. 2239

Commodity Tungsten

Amount $ 60,065.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2239

Commodity Tungsten

Total Amount $60,065.00

Govt. Participation 75%

1. Name and Address of Applicant John W. Mink, et al
560 Ninth Street
Elko, Nevada

2. Location of Property Mohawk Group of 18 claims (Held by Location. Not Surveyed)

Secs. 5,6,7 and 8; T45N; R56E; M.D.B.&M.

Elko County, Nevada

3. Mineral or metal Tungsten Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

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Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination No data in Washington

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? ——

Does the lease have sufficient time to run to cover a future

productive period? ——

*question numbers are those of MF-103

7. Are subordination agreements necessary? **No**

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower **Yes, but should be checked.**

b) Equipment and supplies **No, there is too much listed for exploration only.**
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* **Yes**

d) Water (question 13)* **Yes**

e) Power (question 13)* **Yes (Should use diesel power on exploration and avoid transformer installation cost).**

Is a field check needed on any of these points? **Yes, check on all points.**

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* **Not quite, should be checked, particularly as to managerial ability.**

Is a field check needed on this point? **Yes**

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? **No - Aside from general geology there is no specific program set forth.**

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? **No maps in application. Field team should prepare local map, showing work to be done.**

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? **Yes**

If not, what part of it is? _____

Is this part a worthwhile exploration project? ----

d) Are the cost estimates detailed? **Yes, but in an insufficient manner.**

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? **No** If so, attach a draft.

e) Are the cost estimates reasonable? **No, nearly all are too high.**

f) Should more information be requested from applicant? **Yes**

g) Is a field examination necessary to complete Exhibit A? **Yes**

11. Exhibit B (question 23-d)*

a) Is it applicable? **Yes**

b) If so, are sufficient data furnished? **No** If so, attach a draft.

c) Is a field check needed? **Yes**

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? **Yes**

b) Sufficient data? **No** If so, attach a draft.

c) Are rents and charges reasonable? **No, depreciation basis should be used where applicable.**

d) Is a field check needed? **Yes**

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? **No**

b) Is the schedule adequate for the work proposed? **Don't know.**

c) Is the schedule excessive for the work proposed? **Yes, as to total supervisory amounts.**

d) Are the proposed wages and salaries reasonable? **Probably, except as to foreman and engineer.**

e) Is a field check needed? **Yes**

14. Exhibit E (question 23-c)*

a) Is it applicable? Don't know.

b) Sufficient data? ----

c) Reasonable? ----

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Don't know.

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Yes. This property may have merit but we have no data whatever. The field team is requested to make an examination of the property, and, in company with the applicant, prepare a revised application to best accomplish a suitable exploration program. Only such equipment, buildings, etc. as are essential to the exploration are to be included in the revised application. Samples are to be run for tungsten and gold. Because of the large length of mineralization, perhaps the exploration may be done in two stages; the first, a general exploration and the second, a more detailed program centered on the best area located under the first stage.

Reviewed by: Q. L. Brewer

Enclosures:

1 - MF-103
1 - Graph
1 - USGS Opinion

Date March 5, 1952

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

Original submitted by: Brewer, Selfridge

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant John U. Mink

Docket No. 2239

Commodity Tungsten

Amount $ 60,065.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

(signed) FRANK E. JOHNSON
(FEJ)

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

J. H. Hedges
(JHB)

Member, Bureau of Mines

(signed) FRANK E. JOHNSON
(FEJ)

Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2239

Commodity Tungsten

Total Amount $60,065.00

Govt. Participation 75%

1. Name and Address of Applicant John W. Link, et al
560 Ninth Street
Elko, Nevada

2. Location of Property Mohawk Group of 18 claims

Secs. 5,6,7 and 8; T45N; R56E; M.D.B.&M.

Elko County, Nevada

3. Mineral or metal Tungsten Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery--based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know--needs field examination No data in Washington

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? ——

Does the lease have sufficient time to run to cover a future

productive period? ——

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes, but should be checked.

b) Equipment and supplies No, there is too much listed for exploration only.
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes (Should use diesel power on exploration and avoid transformer installation cost).

Is a field check needed on any of these points? Yes, check on all points.

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Not quite, should be checked, particularly as to managerial ability.

Is a field check needed on this point? Yes

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? No - Aside from general geology there is no specific program set forth.

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No maps in application. Field team should prepare local map, showing work to be done.

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project? ——

d) Are the cost estimates detailed? **Yes, but in an insufficient manner.**

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? **No** If so, attach a draft.

e) Are the cost estimates reasonable? **No, nearly all are too high.**

f) Should more information be requested from applicant? **Yes**

g) Is a field examination necessary to complete Exhibit A? **Yes**

11. Exhibit B (question 23-d)*

a) Is it applicable? **Yes**

b) If so, are sufficient data furnished? **No** If so, attach a draft.

c) Is a field check needed? **Yes**

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? **Yes**

b) Sufficient data? **No** If so, attach a draft.

c) Are rents and charges reasonable? **No, depreciation basis should be used where applicable.**

d) Is a field check needed? **Yes**

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? **No**

b) Is the schedule adequate for the work proposed? **Don't know.**

c) Is the schedule excessive for the work proposed? **Yes, as to total supervisory amounts.**

d) Are the proposed wages and salaries reasonable? **Probably, except as to foreman and engineer.**

e) Is a field check needed? **Yes**

14. Exhibit E (question 23-c)*

a) Is it applicable? Don't know.

b) Sufficient data? ——

c) Reasonable? ——

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Don't know.

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Yes. This property may have merit but we have no data whatever. The field team is requested to make an examination of the property, and, in company with the applicant, prepare a revised application to best accomplish a suitable exploration program. Only such equipment, buildings, etc. as are essential to the exploration are to be included in the revised application. Samples are to be run for tungsten and gold. Because of the large length of mineralization, perhaps the exploration may be done in two stages; the first, a general exploration and the second, a more detailed program centered on the best area located under the stage.

Reviewed by: G. L. Brewer

Enclosures:

1 - MF-103
1 - Graph
1 - USGS Opinion

Date March 5, 1952

IN REPLY REFER TO:

G-MD-DML

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 3 - 1952

March 3, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, U.S.G.S.

Subject: Exploration application $60,065 DMEA 2239 - Tungsten
John W. Mink
560 Ninth St.
Elko, Nevada

Property: Mohawk group of 18 claims in secs. 5, 6, 7 and 8, T. 45 N., R. 56 E., Mt. Diablo meridian (Erroneously given by applicant as R. 7 E. Boise meridian), Rowland quadrangle, Elko County, Nevada, northwest of Tennessee Mountain and adjoining claims held by Montrose Brothers and Knowles Brothers.

Conclusions: The claims held by the applicant are in an area that contains tungsten mineralization. The property has not been examined or mapped by the Geological Survey.

The applicant has submitted no maps or definite exploration proposal. The costs proposed are excessively large with regard to supervision, capital expenditures for buildings and equipment, and rental value of operator's equipment.

Recommendation: It is recommended that the application be referred to the Field Team, Region III, San Francisco for a report on the property.

Dwight M. Lemmon

One copy returned for I & A file 3/4/52 US.

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

February 28, 1952

Memorandum

To: Mr. G. C. Selfridge, D.M.E.A.

From: Mr. R. W. Geehan, Bureau of Mines

Subject: Exploration Application $60,065. DMEA-2239 - Tungsten
John W. Mink
560 Ninth Street
Elko, Nevada

Property: Mohawk group.
Secs. 5,6,7, and 8, T.45N., R.7.E., M.D.B.&M.,
Elko County, Nevada

Proposal: Geologic mapping and "engineering studies", trenching and cross-cutting; diamond drilling.

Recommendation: The application is not complete because of lack of information on the exploration proposed, and lack of even a sketch map of the area. I suggest that the applicant be requested to furnish this additional information.

Robert W. Geehan

Robert W. Geehan

IN REPLY REFER TO:

C-MD-DML

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

March 3, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, U.S.G.S.

Subject: Exploration application #60,065 DMEA 2239 - Tungsten
John W. Mink
560 Ninth St.
Elko, Nevada

Property: Mohawk group of 18 claims in secs. 5, 6, 7 and 8, T. 45 N., R. 56 E., Mt. Diablo meridian (Erroneously given by applicant as R. 7 E. Boise meridian), Rowland quadrangle, Elko County, Nevada, northwest of Tennessee Mountain and adjoining claims held by Montrose Brothers and Knowles Brothers.

Conclusions: The claims held by the applicant are in an area that contains tungsten mineralization. The property has not been examined or mapped by the Geological Survey.

The applicant has submitted no maps or definite exploration proposal. The costs proposed are excessively large with regard to supervision, capital expenditures for buildings and equipment, and rental value of operator's equipment.

Recommendation: It is recommended that the application be referred to the Field Team, Region III, San Francisco for a report on the property.

DM Lemmon

DMLemmon:gt

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMEA Docket No. 2239

To: Reports and Records Branch

John W. Mink

From: Houk

Date: 12/3/51

The following action has been taken this date on the above Controlled Document.

Forwarded to Geehan B of M. & Lemmon U.S.G.S.

Type of request changed to:

Denied ☐ Withdrawn ☐

pproved in amount of $

her action, specify:

Subject: DMEA-2239
Re: Exploration Loan
Mohawk Group

Mr. John W. Mink
560 Ninth Street
Elko, Nevada

My dear Mr. Mink:

This will acknowledge receipt of your application dated November 13, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2239 and referred to the Iron & Ferro Alloys Branch.

Kindly refer to DMEA-2239 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Reports & Records Unit

1 copy to Lemmon
Mar 3, 1952

7862

OFFICE OF THE ADMINISTRATOR

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

Office of
Executive Officer
DMA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

November 16, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee,
Defense Minerals Administration, Washington 25, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Exploration Project Application
John W. Mink, 560 Ninth Street, Elko, Nevada

Enclosed herewith is application Form MF-103 from Mr. John W. Mink, 560 Ninth Street, Elko, Nevada, together with supporting papers, requesting a loan of $60,065.00 to explore for tungsten in the Mohawk Group of claims, Elko County, Nevada.

Will you kindly have the necessary action taken on this application.

S. Ricker, Acting for
H. C. Miller, Executive Officer
DMA Field Team, Region III

Attachment

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
NOV 20 1 33 PM '51

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMEa. 2239

Date received 11-20-51

Participation

~~Defense Minerals Administration~~

~~Washington 25, D.C.~~

John W. Mink
560 Ninth Street
Elko, Nevada

Name and address of applicant

Date November 13, 1951

FILL IN THIS BLOCK

Date of application November 13, 1951

Estimated cost $60,065.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Sections 5, 6, 7, and 8, T. 45 N., R. 7 E., M.D.B. & M., Elko County, Nev.

Date of filing MF-100 April 28, 1951

DMA Docket Number, if available ~~9-670~~

INSTRUCTIONS

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

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. NOV 20 1951

THE APPLICANT

1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

(Name of company)	By John W. Mink (Signature of authorized official)
November 13, 1951 (Date)	Partner (Title)

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

*Same as footnote on page 1.

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

Answers to questions on form MF-103

1. Partnership

2. John W. Mink — General Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Sarah D. Mink — Limited Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Robert H. Holdren — Limited Partner, 25% Interest
   Orbe Apartments
   Elko, Nevada

3. Not applicable

4. Applicant will also manage project. The applicants business and mining experience are as follows:

   5 Yrs, U. S. Forest Service. Much of time spent on road and other construction work.
   8 Yrs freight and mail-line contractor, Northern Elko Co., Nevada
   10 Yrs ranching and mining experience, including operation of Rosebud Mine, Mohawk Mine, and Bruneau Mine.

5. Owner

6. None

7. Not applicable

8. None: property not in operation

9. $16,000 Yes

10. a) 18 claims, situated in Sections 5, 6, 7, and 8, T45N, R7E, MDB & M, Elko Co., Nevada, with a 55 ft. shaft and 460 ft. of crosscut and drift located thereon.

    b) Same as a) above.

11. Mohawk Group: has gone under that name since first located.

12. Property situated 80 miles north of Elko, Nevada. Sixty-five miles are over paved road, thence over 14 miles of well-graded, gravelled Forest Service road. The last 1 mile, from the Forest Service roadto the mine, is over graded, unimproved road.

13. Sufficient water available year round in Tennessee Creek, for mining and milling purposes. Power available from Idaho Power Co. line, which crosses property.

14. Equipment on property which can be used for exploration work include:

1 Allis Chalmers H. D. 7, w/angle dozer
1 GMC 6 X 6, 2½ ton truck, with semi-trailer
1 210 cfm compressor, w/one jackhammer
1 International 1½ ton truck
1 ~~Chevrolet~~ pickup truck

15. It is impractical to ship this ore to any now-operating plant due to high haulage and shipment costs. This exploration work is being done to block out sufficient ore to warrent construction of milling facilities on the property.

16. a) This property was explored by a shaft of 55 ft. in depth, and by a crosscut and drift totalling 460 ft in length, for gold and silver. About 50 tons of gold-silver ore was milled locally, in 1936 and in 1939; some 20 tons were shipped to smelters during the same periods. Tungsten was discovered in 1938, but due to market conditions, no exploration was done on it until the increase in price in 1950 made it economically feasible to do so.

b) The neighboring Montrose and Knowles properties, which adjoin this property on the east, have been explored for tungsten, by cross-cutting and diamond drilling. Considerable tungsten has been reported found, but none has been shipped due to the high shipment costs. The Gribble property, also known as the Star Metal Antimony Mine, which lies southeast of the Mohawk Group, has developed, by shaft and cross-cut, and surface trenching, a fair tonnage of good tungsten ore.

17. Not applicable

18. Not applicable

19. Surface examination, by lamping of outcrops, discloses ore over an estimated 100 ft. width, and for a length of 6000 ft. Mineralization is not uniform over the entire width and length, but in several favorable areas a width of about 100 ft and a length of several hundred feet appear to run from 0.3 to 0.5 percent WO_3.

20. Tungsten: contact deposit in tactite

21. Geologic mapping and engineering studies, trenching and cross-cutting with bulldozer, and diamond drilling. Cross-cutting and trenching estimated to require 3 to 4 month, diamond drilling 2 to 3 months, and mapping 1 to 2 months. All three may run concurrently.

22. No geologic maps available. The widespread occurrence of ore in outcrops, and the favorable geologic setting (granitic rock intruding limestones and shales, with the widespread formation of tactite) indicate that it is a favorable area for exploration.

23. Requirements and costs

a) Labor (based on 90 working days)

1 Equipment operator, $20/day	$1800
1 Cook, $15/day	1350
2 Miners, $15/day	2700
1 Helper, $12.50/day	1125
	$6975

b) Supervisors

1 Foreman, $25/day for 90 days (owners contribution)	$2250
1 Engineer-geologist $700/mo. for 6 mo.	4200
	$6450

c) Cost of repairs to existing facilities--none

d) Cost of additional facilities, structures, etc

1 cook house-dining room	$2500
1 bunkhouse	3500
1 office-shop	2500
	$8500

e) Equipment to be purchased

1 Transformer (installed by Idaho Power Co.)	$5000
1 J-55 jackhammer (about 350.00)	500
1 Arc-welder, 300 Amp	250
1 Drill press, heavy duty, and drills	300
1 Forge and blower 40.00	75
1 Anvil and tools (Anvil 60.00)	100
1 10 HP Electric motor and starter	175
	$6400

f) Cost of equipment to be rented--none

g) Rental value of operators equipment (based on 90 working days)

with operator day gear 1 Allis-Chalmers HD 8. w/angle dozer, $12/hr	$8640
1 6 X 6 GMC Truck, $48/day	4320
✓1 210 cfm compressor, with jackhammer, $10/day	900
	$13,640

h) Cost of materials and supplies

Fuel oil, gasoline, and oil	$2500
Powder and caps	600
Miscellaneous operating supplies, & assaying	5000
	$8100

2000 ft AX diamond drilling @ $5.00/ft	$10,000
Total	$60,065

PROGRESS, MONTHS AFTER START OF PROJECT

1	2	3	4	5	6	months
▬						Mapping
▬	▬	▬	▬			Trenching
		▬	▬	▬	▬	Drilling
$10,000	$25,000	$35,000	$45,000	$55,000	$60,065	Money Spent

IN REPLY REFER TO:

G-MD-DML

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

March 3, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, U.S.G.S.

Subject: Exploration application $60,065 DMEA 2239 - Tungsten
John W. Mink
560 Ninth St.
Elko, Nevada

Property: Mohawk group of 18 claims in secs. 5, 6, 7 and 8, T. 45 N., R. 56 E., Mt. Diable meridian (Erroneously given by applicant as R. 7 E. Boise meridian), Rowland quadrangle, Elko County, Nevada, northwest of Tennessee Mountain and adjoining claims held by Montrose Brothers and Knowles Brothers.

Conclusions: The claims held by the applicant are in an area that contains tungsten mineralization. The property has not been examined or mapped by the Geological Survey.

The applicant has submitted no maps or definite exploration proposal. The costs proposed are excessively large with regard to supervision, capital expenditures for buildings and equipment, and rental value of operator's equipment.

Recommendation: It is recommended that the application be referred to the Field Team, Region III, San Francisco for a report on the property.

D M Lemmon

DMLemmon:gt

Reno

J.W.Mink, Tungsten property
Pittsburg No.2 claim
Left to Right: J.W.Mink,R.M.Smith,USGS
Mendell M.Bell,USGS

Locking South West toward the J.W.Mink property.

Dump in center shows location of the Mohawk Shaft

J.W.Mink, Tungsten property
Pittsburg No.2 claim
Left to Right: J.W.Mink,R.M.Smith,USGS
Mendell M.Bell,USGS

Looking South West toward the J.W.Mink property.

Dump in center shows location of the Mohawk Shaft

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. D.M.A. 2239

Date received 11-20-51

Participation

~~Defense Minerals Administration~~

~~Washington 25, D. C.~~
John W. Mink
560 Ninth Street
Elko, Nevada

Name and address of applicant

Date ~~November 13, 1951~~

FILL IN THIS BLOCK

Date of application November 13, 1951

Estimated cost $60,065.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Sections 5, 6, 7, and 8, T. 45 N., R. 7 E., M.D.B. & M., Elko County, Nev.

Date of filing MF-100 April 28, 1951

DMA Docket Number, if available ~~9-670~~

INSTRUCTIONS

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

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. NOV 20 1 33 PM '51

THE APPLICANT

1. Is applicant an individual, partnership, or corporation?
2. If a partnership, state names and addresses of partners.
3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.

*5. Are you the owner or the lessee of the property?

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

(Name of company)	By John W. Mink (Signature of authorized official)
November 13, 1951 (Date)	Partner (Title)

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

*Same as footnote on page 1.

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

Answers to questions on form MF-103

1. Partnership

2. John W. Mink — General Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Sarah D. Mink — Limited Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Robert H. Holdren — Limited Partner, 25% Interest
   Orbe Apartments
   Elko, Nevada

3. Not applicable

4. Applicant will also manage project. The applicants business and mining experience are as follows:

   5 Yrs, U. S. Forest Service. Much of time spent on road and other construction work.
   8 Yrs freight and mail-line contractor, Northern Elko Co., Nevada
   10 Yrs ranching and mining experience, including operation of Rosebud Mine, Mohawk Mine, and Bruneau Mine.

5. Owner

6. None

7. Not applicable

8. None: property not in operation

9. $16,000 Yes

10. a) 18 claims, situated in Sections 5, 6, 7, and 8, T45N, R7E, MDB & M, Elko Co., Nevada, with a 55 ft. shaft and 460 ft. of crosscut and drift located thereon.

    b) Same as a) above.

11. Mohawk Group: has gone under that name since first located.

12. Property situated 80 miles north of Elko, Nevada. Sixty-five miles are over paved road, thence over 14 miles of well-graded, gravelled Forest Service road. The last 1 mile, from the Forest Service roadto the mine, is over graded, unimproved road.

13. Sufficient water available year round in Tennessee Creek, for mining and milling purposes. Power available from Idaho Power Co. line, which crosses property.

14. Equipment on property which can be used for exploration work include:

1 Allis Chalmers H. D. 7, w/angle dozer
1 GMC 6 X 6, 2½ ton truck, with semi-trailer
1 210 cfm compressor, w/one jackhammer
1 International 1½ ton truck
1 Chevrolet pickup truck

15. It is impractical to ship this ore to any now-operating plant due to high haulage and shipment costs. This exploration work is being done to block out sufficient ore to warrent construction of milling facilities on the property.

16. a) This property was explored by a shaft of 55 ft. in depth, and by a crosscut and drift totalling 460 ft in length, for gold and silver. About 50 tons of gold-silver ore was milled locally, in 1936 and in 1939; some 20 tons were shipped to smelters during the same periods. Tungsten was discovered in 1938, but due to market conditions, no exploration was done on it until the increase in price in 1950 made it economically feasible to do so.

b) The neighboring Montrose and Knowles properties, which adjoin this property on the east, have been explored for tungsten, by cross-cutting and diamond drilling. Considerable tungsten has been reported found, but none has been shipped due to the high shipment costs. The Gribble property, also known as the Star Metal Antimony Mine, which lies southeast of the Mohawk Group, has developed, by shaft and cross-cut, and surface trenching, a fair tonnage of good tungsten ore.

17. Not applicable

18. Not applicable

19. Surface examination, by lamping of outcrops, discloses ore over an estimated 100 ft. width, and for a length of 6000 ft. Mineralization is not uniform over the entire width and length, but in several favorable areas a width of about 100 ft and a length of several hundred feet appear to run from 0.3% to 0.5% percent WO_3.

20. Tungsten: contact deposit in tactite

21. Geologic mapping and engineering studies, trenching and cross-cutting with bulldozer, and diamond drilling. Cross-cutting and trenching estimated to require 3 to 4 month, diamond drilling 2 to 3 months, and mapping 1 to 2 months. All three may run concurrently.

22. No geologic maps available. The widespread occurrence of ore in outcrops, and the favorable geologic setting (granitic rock intruding limestones and shales, with the widespread formation of tactite) indicate that it is a favorable area for exploration.

23. Requirements and costs

a) Labor (based on 90 working days)

1 Equipment operator, $20/day	$1800
1 Cook, $15/day	1350
2 Miners, $15/day	2700
1 Helper, $12.50/day	1125
	$6975

b) Supervisors

1 Foreman, $25/day for 90 days (owners contribution)	$2250
1 Engineer-geologist, $ 700/mo for 6 mo.	4200
	$6450

c) Cost of repairs to existing facilities--none

d) Cost of additional facilities, structures, etc

1 cook house-dining room	$2500
1 bunkhouse	3500
1 office-shop	2500
	$8500

e) Equipment to be purchased

1 Transformer (installed by Idaho Power Co.)	$5000
1 J-55 jackhammer	500
1 Arc-welder, 300 Amp	250
1 Drill press, heavy duty, and drills	300
1 Forge and blower	75
1 Anvil and tools	100
1 10 HP Electric motor and starter	175
	$6400

f) Cost of equipment to be rented--none

g) Rental value of operators equipment (based on 90 working days)

1 Allis-Chalmers HD 8. w/angle dozer, $12/hr	$8640
1 6 X 6 GMC Truck, $48/day	4320
1 210 cfm compressor, with jackhammer, $10/day	900
	$13,640

h) Cost of materials and supplies

Fuel oil, gasoline, and oil	$2500
Powder and caps	600
Miscellaneous operating supplies & assaying	5000
	$8100
2000 ft AX diamond drilling @ $5.00/ft.	$10,000
Total	$60,065

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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DO NOT FILL IN THIS BLOCK

Docket No. D. MEA. 2239

Date received 11-20-51

Participation

~~Defense Minerals Administration~~
~~Washington 25, D. C.~~
John W. Mink
560 Ninth Street
Elko, Nevada

Name and address of applicant

Date November 13, 1951

FILL IN THIS BLOCK

Date of application November 13, 1951

Estimated cost $60,065.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Sections 5, 6, 7, and 8, T. 45 N., R. 7 E., M.D.B. & M., Elko County, Nev.

Date of filing MF-100 April 28, 1951

DMA Docket Number, if available ~~9670~~

INSTRUCTIONS

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THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
5. Are you the owner or the lessee of the property?
If owner, state what claims, liens, or encumbrances, if any, are against the property.
If lessee, attach a copy of the lease and state if it is in good standing.
NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.
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16—64067-1

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State amount of power to be used, rate per hour or other cost, and source.

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

CERTIFICATION

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

(Name of company)	By John W. Munk (Signature of authorized official)
November 13, 1951 (Date)	Partner (Title)

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

*Same as footnote on page 1.

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

PROGRESS, MONTHS AFTER START OF PROJECT

1	2	3	4	5	6	Months
						Mapping
						Trenching
						Drilling
$10,000	$25,000	$35,000	$45,000	$55,000	60,065	Money Spent

Answers to questions on form MF-103

1. Partnership

2. John W. Mink — General Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Sarah D. Mink — Limited Partner, 37½% Interest
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   Elko, Nevada

   Robert M. Holdren — Limited Partner, 25% Interest
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3. Not applicable

4. Applicant will also manage project. The applicants business and mining experience are as follows:

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5. Owner

6. None

7. Not applicable

8. None: property not in operation

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12. Property situated 80 miles north of Elko, Nevada. Sixty-five miles are over paved road, thence over 14 miles of well-graded, gravelled Forest Service road. The last 1 mile, from the Forest Service roadto the mine, is over graded, unimproved road.

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22. No geologic maps available. The widespread occurrence of ore in outcrops, and the favorable geologic setting (granitic rock intruding limestones and shales, with the widespread formation of tactite) indicate that it is a favorable area for exploration.

23. Requirements and costs

a) Labor (based on 90 working days)

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1 Cook, $15/day	1350
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Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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~~Defense Minerals Administration~~

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John W. Mink
560 Ninth Street
Elko, Nevada

Name and address of applicant

Date ~~November 13, 1951~~

FILL IN THIS BLOCK

Date of application November 13, 1951

Estimated cost ~~860,065.00~~

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Sections 5, 6, 7, and 8, T. 45 N., R. 7 E., M.D.B. & M., Elko County, Nev.

Date of filing MF-100 April 28, 1951

DMA Docket Number, if available ~~D-670~~

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DEFENSE MINERALS ADMINISTRATION WASH. D. C. NOV 20 1951

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16—64067-1

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State amount of power to be used, rate per hour or other cost, and source.

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

(Name of company)	By John W. Mink (Signature of authorized official)
November 13, 1951 (Date)	Partner (Title)

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

*Same as footnote on page 1.

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

Answers to questions on form MF-103

1. Partnership

2. John W. Mink — General Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Sarah D. Mink — Limited Partner, 37½% Interest
   560 Ninth Street
   Elko, Nevada

   Robert H. Holdren — Limited Partner, 25% Interest
   Orbe Apartments
   Elko, Nevada

3. Not applicable

4. Applicant will also manage project. The applicants business and mining experience are as follows:

   5 Yrs, U. S. Forest Service. Much of time spent on road and other construction work.
   8 Yrs freight and mail-line contractor, Northern Elko Co., Nevada
   10 Yrs ranching and mining experience, including operation of Rosebud Mine, Mohawk Mine, and Bruneau Mine.

5. Owner

6. None

7. Not applicable

8. None: property not in operation

9. $16,000 Yes

10. a) 18 claims, situated in Sections 5, 6, 7, and 8, T45N, R7E, MDB & M, Elko Co., Nevada, with a 55 ft. shaft and 460 ft. of crosscut and drift located thereon.

    b) Same as a) above.

11. Mohawk Group: has gone under that name since first located.

12. Property situated 80 miles north of Elko, Nevada. Sixty-five miles are over paved road, thence over 14 miles of well-graded, gravelled Forest Service road. The last 1 mile, from the Forest Service roadto the mine, is over graded, unimproved road.

13. Sufficient water available year round in Tennessee Creek, for mining and milling purposes. Power available from Idaho Power Co. line, which crosses property.

14. Equipment on property which can be used for exploration work include:

1 Allis Chalmers H. D. 7, w/angle dozer
1 GMC 6 X 6, 2½ ton truck, with semi-trailer
1 210 cfm compressor, w/one jackhammer
1 International 1½ ton truck
1 Chevrolet pickup truck

15. It is impractical to ship this ore to any now-operating plant due to high haulage and shipment costs. This exploration work is being done to block out sufficient ore to warrent construction of milling facilities on the property.

16. a) This property was explored by a shaft of 55 ft. in depth, and by a crosscut and drift totalling 460 ft in length, for gold and silver. About 50 tons of gold-silver ore was milled locally, in 1936 and in 1939; some 20 tons were shipped to smelters during the same periods. Tungsten was discovered in 1938, but due to market conditions, no exploration was done on it until the increase in price in 1950 made it economically feasible to do so.

b) The neighboring Montrose and Knowles properties, which adjoin this property on the east, have been explored for tungsten, by cross-cutting and diamond drilling. Considerable tungsten has been reported found, but none has been shipped due to the high shipment costs. The Gribble property, also known as the Star Metal Antimony Mine, which lies southeast of the Mohawk Group, has developed, by shaft and cross-cut, and surface trenching, a fair tonnage of good tungsten ore.

17. Not applicable

18. Not applicable

19. Surface examination, by lamping of outcrops, discloses ore over an estimated 100 ft. width, and for a length of 6000 ft. Mineralization is not uniform over the entire width and length, but in several favorable areas a width of about 100 ft and a length of several hundred feet appear to run from 0.3 to 0.5 percent WO_3.

20. Tungsten: contact deposit in tactite

21. Geologic mapping and engineering studies, trenching and cross-cutting with bulldozer, and diamond drilling. Cross-cutting and trenching estimated to require 3 to 4 month, diamond drilling 2 to 3 months, and mapping 1 to 2 months. All three may run concurrently.

22. No geologic maps available. The widespread occurrence of ore in outcrops, and the favorable geologic setting (granitic rock intruding limestones and shales, with the widespread formation of tactite) indicate that it is a favorable area for exploration.

23. Requirements and costs

a) Labor (based on 90 working days)

1 Equipment operator, $20/day	$1800
1 Cook, $15/day	1350
2 Miners, $15/day	2700
1 Helper, $12.50/day	1125
	$6975

b) Supervisors

1 Foreman, $25/day for 90 days (owners contribution)	$2250
1 Engineer-geologist, $ 700/mo for 6 mo.	4200
	$6450

c) Cost of repairs to existing facilities--none

d) Cost of additional facilities, structures, etc

1 cook house-dining room	$2500
1 bunkhouse	3500
1 office-shop	2500
	$8500

e) Equipment to be purchased

1 Transformer (installed by Idaho Power Co.)	$5000
1 J-55 jackhammer	500
1 Arc-welder, 300 Amp	250
1 Drill press, heavy duty, and drills	300
1 Forge and blower	75
1 Anvil and tools	100
1 10 HP Electric motor and starter	175
	$6400

f) Cost of equipment to be rented--none

g) Rental value of operators equipment (based on 90 working days)

1 Allis-Chalmers HD 8. w/angle dozer, $12/hr	$8640
1 6 X 6 GMC Truck, $48/day	4320
1 210 cfm compressor, with jackhammer, $10/day	900
	$13,640

h) Cost of materials and supplies

Fuel oil, gasoline, and oil	$2500
Powder and caps	600
Miscellaneous operating supplies & assaying	5000
	$8100
2000 ft AX diamond drilling @ $5.00/ft	$10,000
Total	$60,065

PROGRESS, MONTHS AFTER START OF PROJECT

1	2	3	4	5	6	Months
[redacted]						Mapping
[redacted]						Trenching
		[redacted]				Drilling
$10,000	$25,000	$35000	$45,000	$55,000	$60,065	Money Spent

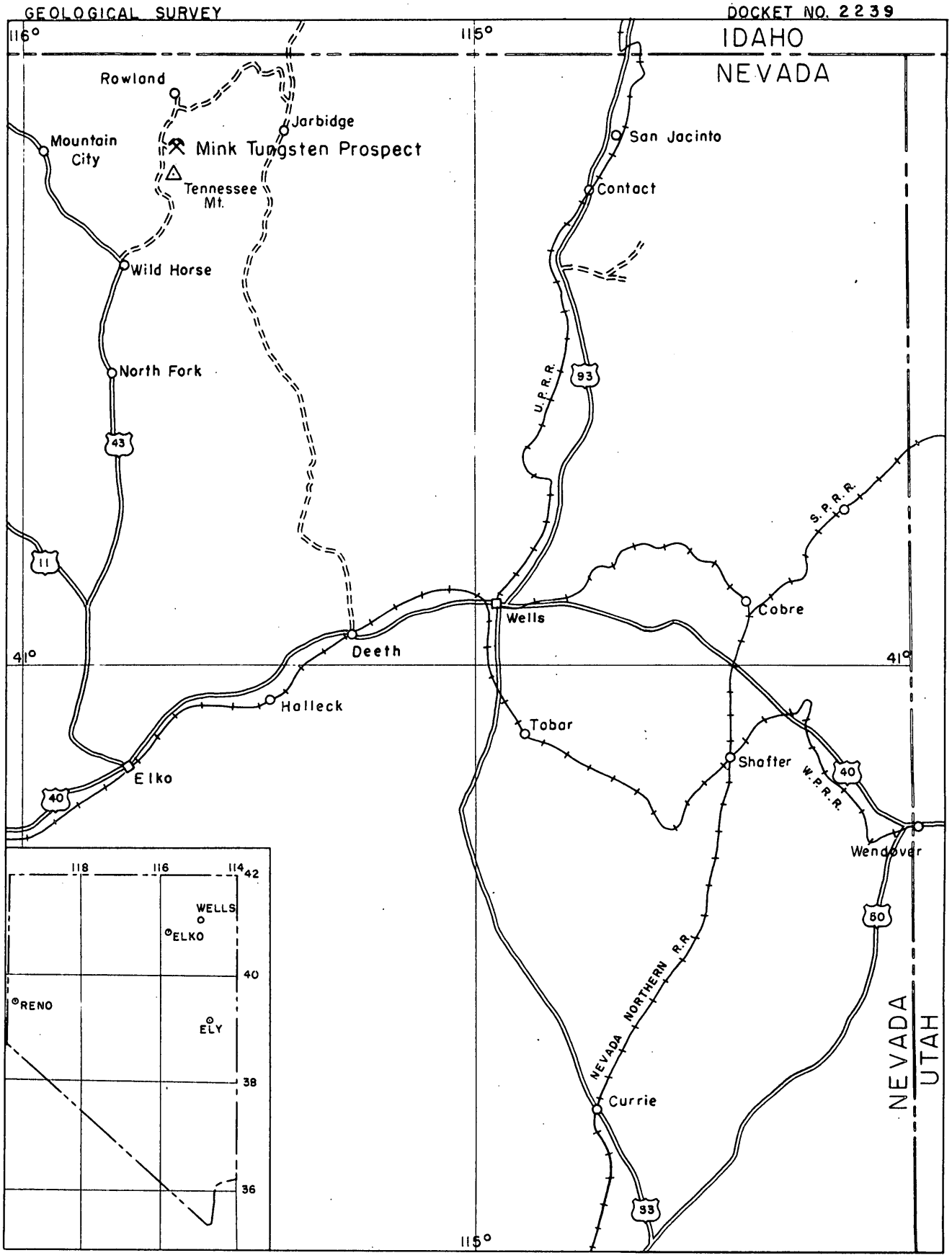


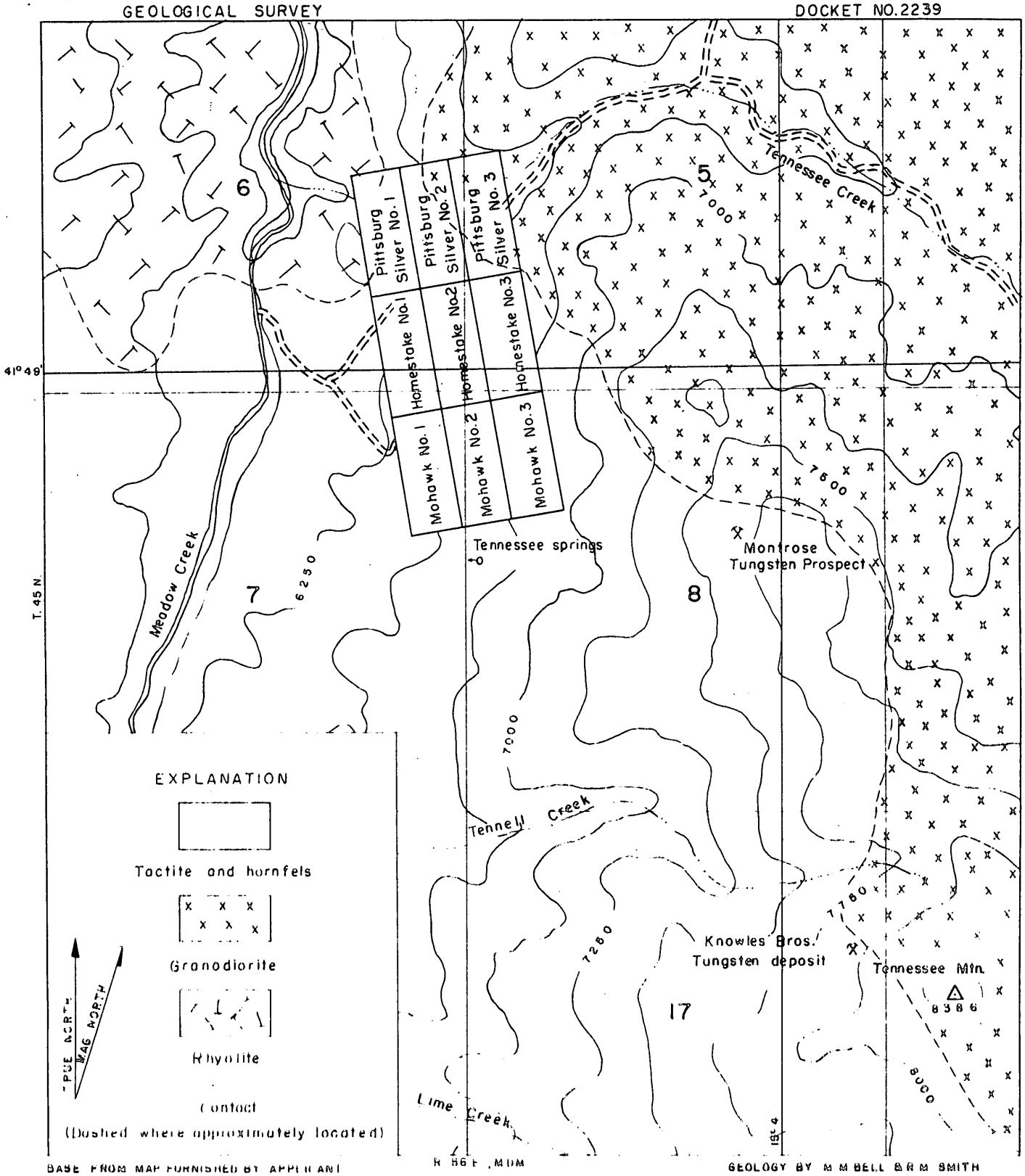
FIG. 1 INDEX MAP OF NEVADA

0 10 20 30 40 Miles

Scale 1:1,000,000

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2239



BASE FROM MAP FURNISHED BY APPLICANT AND FROM U.S.G.S. ROWLAND QUADRANGLE

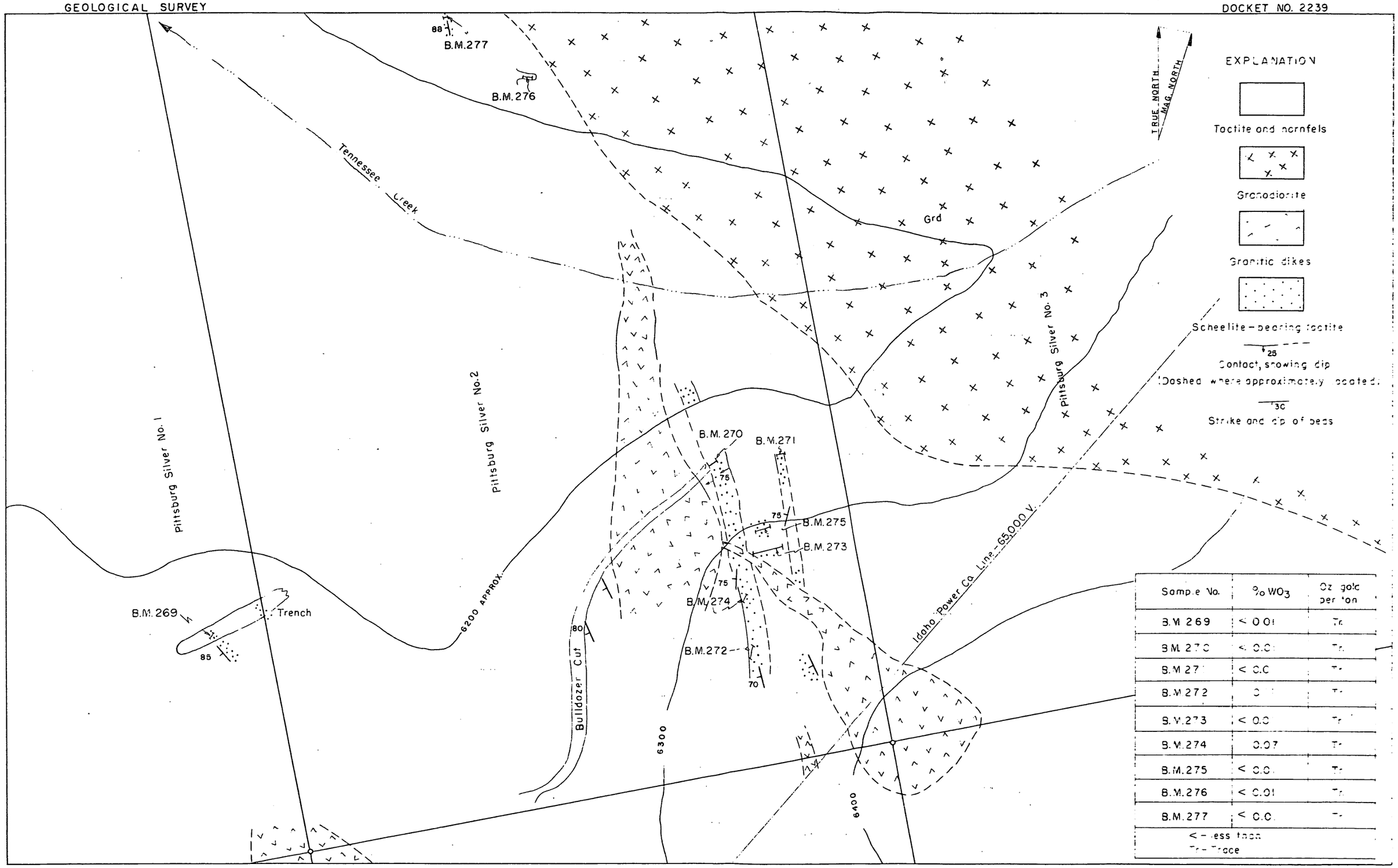
GEOLOGY BY M. M. BELL & R. M. SMITH

FIG 2

GEOLOGIC SKETCH MAP OF THE J.W. MINK TUNGSTEN PROSPECT

ELKO COUNTY, NEVADA

0 ½ 1 MILE
Scale



Sample No.	% WO_3	Oz gold per ton
B.M. 269	< 0.01	Tr.
B.M. 270	< 0.01	Tr.
B.M. 271	< 0.01	Tr.
B.M. 272	[illegible]	Tr.
B.M. 273	< 0.01	Tr.
B.M. 274	0.07	Tr.
B.M. 275	< 0.01	Tr.
B.M. 276	< 0.01	Tr.
B.M. 277	< 0.01	Tr.

< = less than
Tr. = Trace

GEOLOGY BY P.M. SMITH AND H.M. BELL

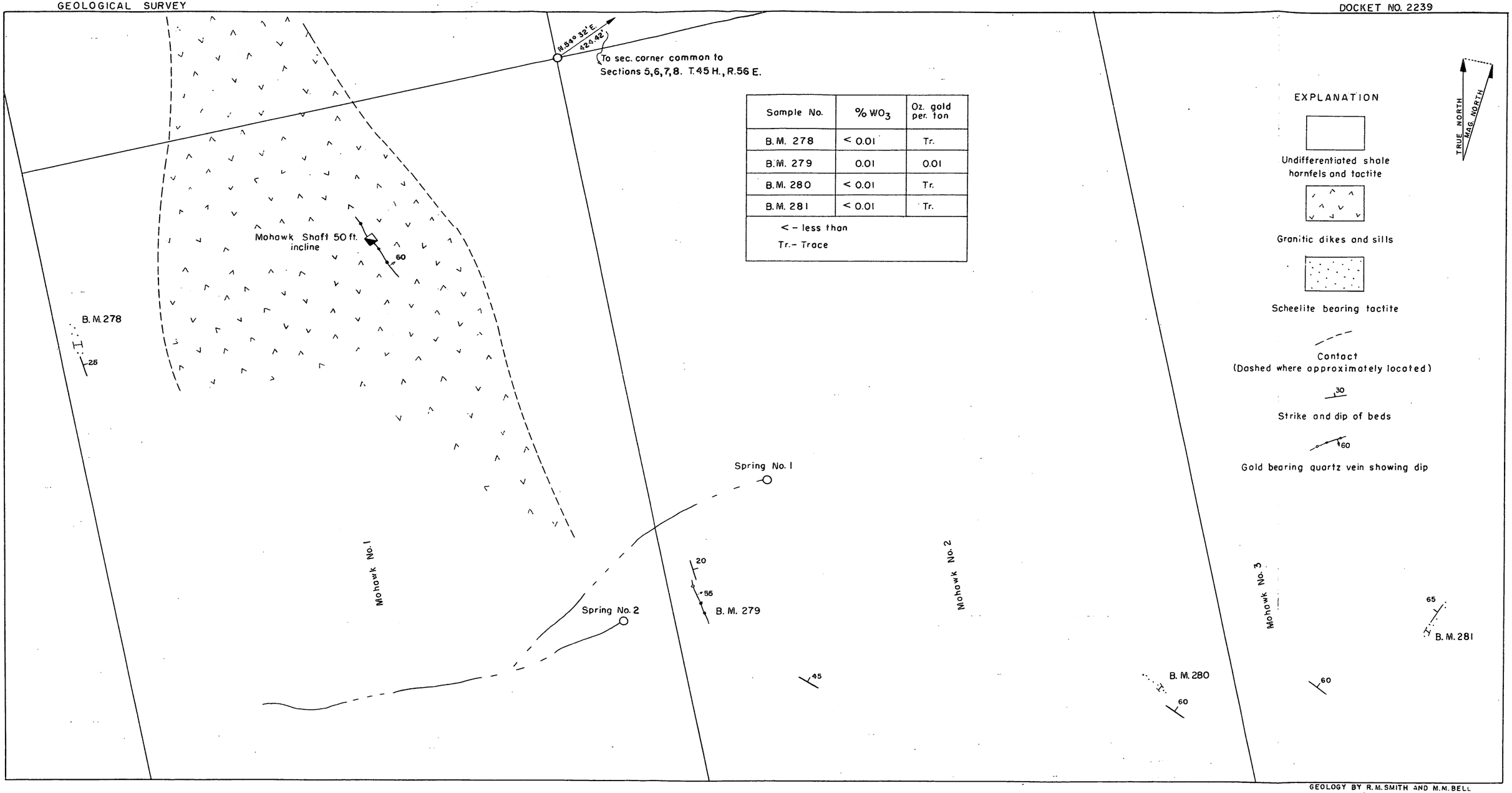
FIG. 3

GEOLOGIC SKETCH MAP OF THE PITTSBURG SILVER CLAIMS

J.W. MINK TUNGSTEN PROSPECT

ELKO COUNTY, NEVADA

0 100 200 FEET
Scale



Sample No.	% WO_3	Oz. gold per. ton
B.M. 278	< 0.01	Tr.
B.M. 279	0.01	0.01
B.M. 280	< 0.01	Tr.
B.M. 281	< 0.01	Tr.

< - less than
Tr.- Trace

GEOLOGY BY R.M. SMITH AND M.M. BELL

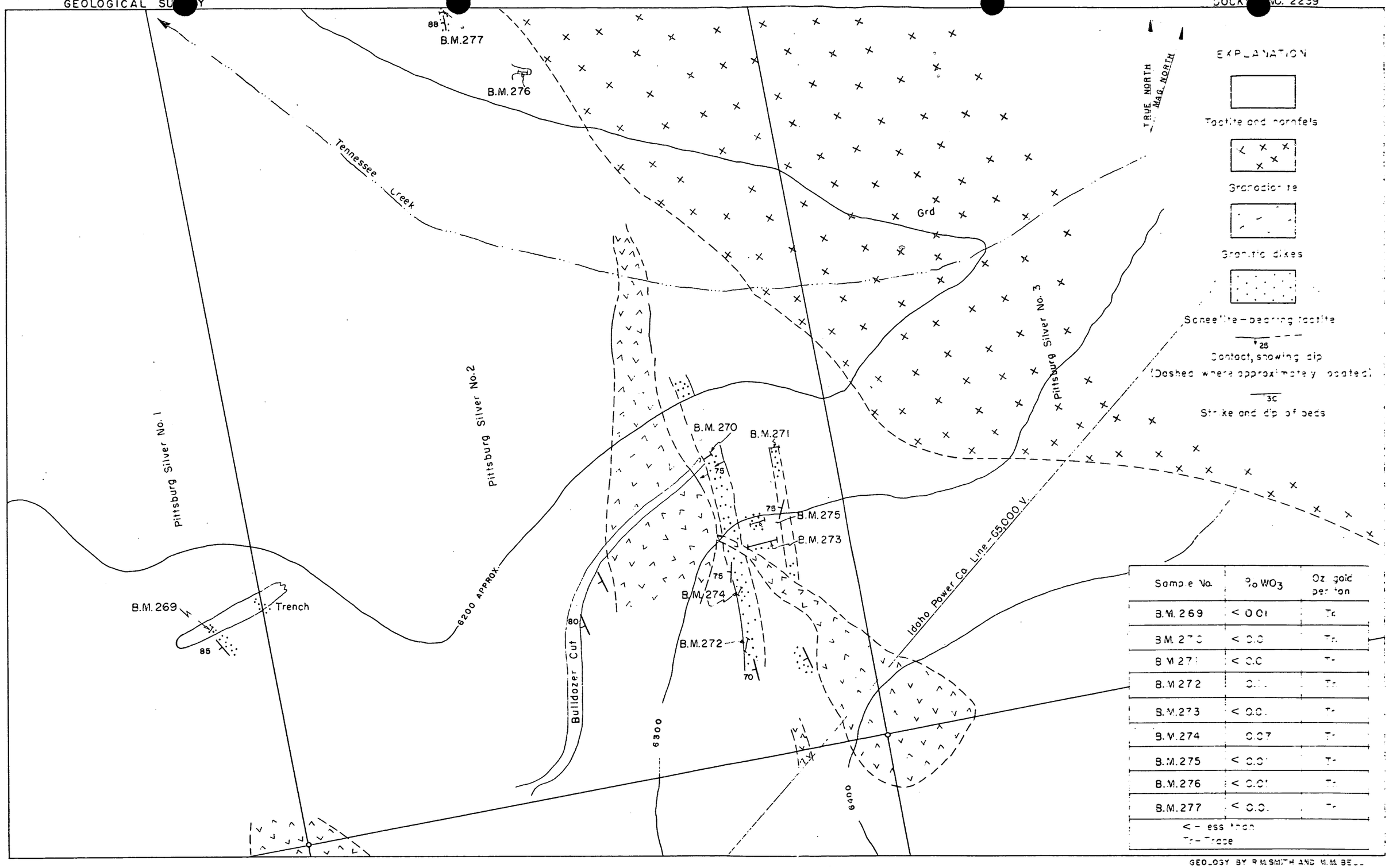
FIG. 4

GEOLOGIC SKETCH MAP OF THE MOHAWK CLAIMS
J.W. MINK TUNGSTEN PROSPECT
ELKO COUNTY, NEVADA

0 100 200 FEET
Scale

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2239



Sample No.	% WO_3	Oz. gold per ton
B.M. 269	< 0.01	Tr.
B.M. 270	< 0.01	Tr.
B.M. 271	< 0.01	Tr.
B.M. 272	0.1[illegible]	Tr.
B.M. 273	< 0.01	Tr.
B.M. 274	0.07	Tr.
B.M. 275	< 0.01	Tr.
B.M. 276	< 0.01	Tr.
B.M. 277	< 0.01	Tr.

< - less than
Tr. - Trace

GEOLOGY BY R.M. SMITH AND M.M. BELL

FIG. 3

GEOLOGIC SKETCH MAP OF THE PITTSBURG SILVER CLAIMS

J.W. MINK TUNGSTEN PROSPECT

ELKO COUNTY, NEVADA

0 100 200 FEET
Scale