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DMA Docket No. 3289

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3289

SEP 1 6 1954

Mr. Hyman Werner, Partner
Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Qualey Mine
Mineral County, Nevada

Dear Mr. Werner:

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

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

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

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

JHopkins:foc
9-14-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kilsgaard, USGS

IN REPLY REFER TO:

400

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

September 15, 1954

Re: DMEA-3289
Qualey Mine
Mineral Co., Nev.
$11,500 - Tungsten

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Concurrence with Field Team recommendation for denial

The applicant's proposed exploration consisted of 200 feet of drifting, 100 feet of winzing and 1,000 feet of diamond drilling. Location of work was not given.

The Field Team recommends the proposal be denied.

Scheelite mineralization occurs as thin seams (1/4 to 1/2 inch wide) in a fault zone which varies in thickness from 1.0 to 3.0 feet. Four samples taken underground range from 0.01 to 0.03 percent WO_3. A fifth sample assayed 3.37 percent WO_3, but cannot be considered typical for mine-run ore as it was taken purposely in a high grade spot.

The sampling results, which apparently were taken in the best mineralized, accessible areas in the mine, indicate that a significant amount of tungsten ore is unlikely to be found by the proposed exploration.

I believe the Field Team's recommendation for denial is justified.

E. L. Newcomb

ELNewcomb:hlm
G-9/15/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513

September 14, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $11,500.00
Docket No. DMEA 3289 - Tungsten
Hyman Werner and G. A. Peterson
Qualey Mine
Mineral County, Nevada

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

The Qualey Mine area is underlain by sedimentary rocks of Middle Triassic age that have been metamorphased by a granodiorite intrusive to hornfels and tactite.

The main mine workings consist of a drift-adit about 1900 feet in length, with several short crosscuts and a 200 foot raise connecting with an upper adit 300 feet in length. In addition there are other adits, shafts and shallow prospects on the property.

The mine is reported to have produced a small amount of copper ore, but the present owners have no record of production. Some scheelite mineralization was discovered during 1953.

The ore zone along the mineralized fault cut in the lower adit contains pyrite, chalcopyrite and small amounts of scheelite in a gangue of quartz and altered hornfels minerals.

Scheelite occurs as narrow seams from 1/4 to 1/2 inch wide in a zone 10 feet long and 5 feet high on the footwall of the copper-bearing zone in the fault structure.

The following results were obtained from five samples taken from the lower adit and raise:

Sample No.	%. Cu	%. WO_3	Oz. Au/T	Oz. Ag/T	Description
1	0.03	0.03	0.01	0.20	Chip sample, 3' long adjacent to face of north crosscut, 40' beyond raise.
2	0.05	*0.01	0.01	0.30	Chip sample 10' long, along north crosscut.
3	0.02	3.37	0.01	1.80	Specimen highgrade in footwall of raise 20-25' above level.
4	0.54	0.02	0.025	4.00	3' horizontal channel across most mineralized zone.
5	0.01	0.05	0.01	1.50	1.5' horizontal channel adjacent to sample No. 4.

(*) Less than

About two tons of indicated ore reserves that contain 3.37 percent WO_3 are included in the ore zone in the raise above the lower adit. A few tons more may be inferred in the same location. Elsewhere along the mineralized zone, the scheelite concentration is so low that it cannot be considered ore.

The Field Team recommended denial of the application because the tungsten mineralized zones are too small or too low grade to allow mining.

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

(S)

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

JHopkins:foc
9-14-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

400

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

August 31, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3289 - Tungsten
Werner and Peterson
Qualey Mine
Mineral County, Nevada

Reference is made to your letter dated May 19, 1954, referring the subject application to us for a field examination.

Attached are the original and three copies of a report entitled "DMEA-3289, Qualey Mine, Mineral County, Nevada (Tungsten)," by John D. Warne, Mining Engineer, U. S. Bureau of Mines, and Robert G. Reeves, Geologist, U. S. Geological Survey, dated August 23, 1954.

The engineer and geologist are in agreement that a loan should be denied. According to their report, scheelite occurs as narrow seams 1/4 to 1/2 inch wide and several feet long that are localized mainly along the footwall of the mineralized zone. Tungsten mineralized zones, sampled in the lower adit and raise, are too small and too low grade to make a commercial mining venture.

The report has been discussed with Mr. Roscoe Smith and we concur with the conclusions therein.

S. RICKER

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

Attachment

Copy to: Roscoe Smith, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3289, Qualey Mine

Mineral County, Nev.

(Tungsten)

John D. Warne, Mining Engineer
U. S. Bureau of Mines

Robert G. Reeves, Geologist
U. S. Geological Survey

August 23, 1954

EXAMINATION REPORT

Docket No.: DMEA-3289

Name and address of applicant: Messrs. Hyman Werner and G. A. Peterson
P. O. Box 1745
Reno, Nevada

Name and location of property: Qualey Mine
SW 1/4 Sec. 2, T. 5 N., R. 31 E.,
16 miles south of Hawthorne,
Mineral County, Nevada

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An examination of the Qualey mine was made by an engineer of the Bureau of Mines and a geologist of the Geological Survey on July 12, 1954. This examination was conducted pursuant to an application for exploration for tungsten by Hyman Werner and G. A. Peterson on March 9, 1954 and supplemented June 10, 1954.

The Qualey mine, located for copper in 1903, is located about 16 miles south of Hawthorne, Mineral County, Nev. (fig. 1). The main working consists of a 1900 foot drift adit (fig. 2) where some scheelite tungsten mineralization was discovered during 1953.

The applicant proposed a project estimated to cost $11,500.00; however, he did not indicate a definite location or objective for the work.

Tungsten mineralized zones, sampled in the lower adit and raise, are too small or too low in grade to allow mining. It is recommended that a loan be denied.

LOCATION AND ACCESSIBILITY

The Qualey mine is situated on the northwest slope of the Excelsior Mountains at an altitude of about 5800 feet above sea level. It is located about 16 miles south of Hawthorne, Nev., in the Whiskey Flat mining district, in the SW 1/4 of sec. 2, T. 5 N., R. 31 E., M.D.B.&M., Mineral County, Nevada (fig. 1).

It is accessible by automobile throughout the year by Nevada State Highway No. 31 a distance of 17 miles south of Hawthorne, thence eastward on an unimproved desert road a distance of 5 miles across Whiskey Flat, and finally by a steep mountain access road of 0.5 mile in length to the mine. A low geared vehicle is required to negotiate the last portion of the access road.

COMPETENCY OF APPLICANT

The financial responsibility of the applicant is not known. Mr. Hyman Werner has had very little practical mining experience as indicated by his application and conduct during the examination. Mr. G. A. Peterson, his partner, has operated several small mine properties in Nevada, and he is considered capable of operating an exploration project.

APPLICANT'S PROPERTY RIGHTS

The total property consists of four patented mining claims held jointly by Mr. Hyman Werner and Mr. G. A. Peterson. These claims known as the Roosevelt, Columet, Nevada, and Great Eastern, U. S. Mineral Survey No. 3303 are located within the SW 1/4 of sec. 2 and the

SE 1/4 of sec. 3, T. 5 N., R. 31 E., M.D.B.&M., Whiskey Flat mining district, Mineral County, Nev. These claims are recorded in the Mineral County Courthouse at Hawthorne, Nev., according to the applicant.

DESCRIPTION OF PROPERTY

No buildings or mine plant equipment exist on the property, and no underground facilities or equipment has been left in the mine.

The main Qualey mine working consists of a lower drift-adit about 1900 feet in length leading southeastward from its portal with several short crosscut and drifts near its terminal to explore the mineralized zones (fig. 2). A raise of about 200 feet in length, which is located 100 feet west of the terminus of lower adit, connects with an upper adit of about 300 feet in length. These mine workings are located on the Roosevelt claim. Other adits, shafts, and shallow prospects exist on the property in the vicinity of the mine.

PROPOSED EXPLORATION

The applicant's proposal consisted of the following work and estimated costs:

Drifting, 200 feet @ $20.00/ft.	$ 4,000.00
Winzing, 100 feet @ $20.00/ft.	2,000.00
Diamond drilling, 1,000 feet @ $5.50/ft.	5,500.00
	$11,500.00

The locations and objectives of the proposed work were not given by Mr. Werner, who prepared the application on the basis that scheelite

tungsten mineralization existed in the Qualey mine as reported to him by his partner, Mr. Gunner Peterson. Mr. Werner had no previous knowledge that tungsten occurred in the mine, and he had not inspected it. Consequently, the proposed exploration project and application were poorly conceived and prepared.

The original application, dated March 9, 1954, did not include a description of the proposed exploration. Also, he failed to state quantity and estimated cost of the proposed project. On June 10, 1954, Mr. Werner was contacted by John D. Warne, mining engineer, U. S. Bureau of Mines and some supplemental information was obtained, but the complete proposal could not be elicited from the applicant. It appeared that he hoped that the Bureau of Mines and Geological Survey representatives would suggest an exploration program to be followed.

SAMPLING

5 ~~Six~~ samples were taken from the lower adit and raise as shown in fig. 2. Descriptions and analysis by the Bureau of Mines Hydrometallurgical and Ore Dressing Branch are as follows:

Sample No.	%, Cu	%, WO_3	Oz. Au/T	Oz. Ag/T	Description
1	0.03	0.03	0.01	0.20	Chip sample, 3 feet in length, adjacent to face of north crosscut, 40 feet beyond raise.
2	0.05	*0.01	0.01	0.30	Chip sample, 10 feet in length, along north crosscut.
3	0.02	3.37	0.01	1.80	Specimen sample of highest grade [illegible]ts of scheelite in footwall or raise, 20 to 25 feet above lower adit level.

Sample No.	%, Cu	%, WO_3	Oz. Au/T	Oz. Ag/T	Description
4	0.54	0.02	0.025	4.00	3-foot horizontal channel sample across most mineralized zone.
5	0.01	0.05	0.01	1.50	1.5-foot horizontal channel sample adjacent to sample No. 4.

*Less than.

PAST OPERATION

The Roosevelt mining claim of the Qualey mine was located in 1903 and patented in 1906 by the Excelsior Mountain Copper Co. A small amount of copper ore is believed to have been mined, but present owners have no record of past production.

Scheelite tungsten mineralization was discovered by Mr. G. A. Peterson in 1950.

GEOLOGY

The mine area is underlain by sedimentary rocks of the Excelsior formation of Middle Triassic age that have been intruded and metamorphosed by granodiorite (Ferguson and Muller, 1949, p. 4, 15; pl. I and II). In the mine area, the Excelsior formation rocks are metamorphosed to hornfels and tactite; they strike generally northeasterly, and dip from 45° northwest to vertical. Dikes and apophyses of coarse-grained granodiorite composed mainly of plagioclase and orthoclase with a small amount of biotite and hornblende cut the tactite and hornfels.

An east-trending mineralized fault that dips from 70° south to vertical is cut in the lower adit.

ORE DEPOSITS

The ore zone along the mineralized fault cut in the lower adit contains pyrite, chalcopyrite, and small amounts of scheelite in a gangue of quartz and altered hornfels minerals. The zone is from 1 to 3 feet wide, although where cut by cross faults, may widen to as much as 10 feet. Scheelite occurs as narrow "seams", from 1/4 to 1/2 inch wide and several feet long that are localized mainly along the footwall of the mineralized zone. In the raise near the face of the lower adit, there is a small concentration of scheelite about 25 feet above the adit floor. The scheelite-bearing zone is about 10 feet long and 5 feet high, and consists of 1/2 inch seams of scheelite on the footwall of the copper-bearing zone.

About two tons of indicated ore reserves that contain 3.37 percent WO_3 are contained in the ore zone in the raise above the lower adit. A few tons more may be inferred in the same location. Elsewhere along the mineralized zone, the scheelite concentration is so low that it cannot be considered ore.

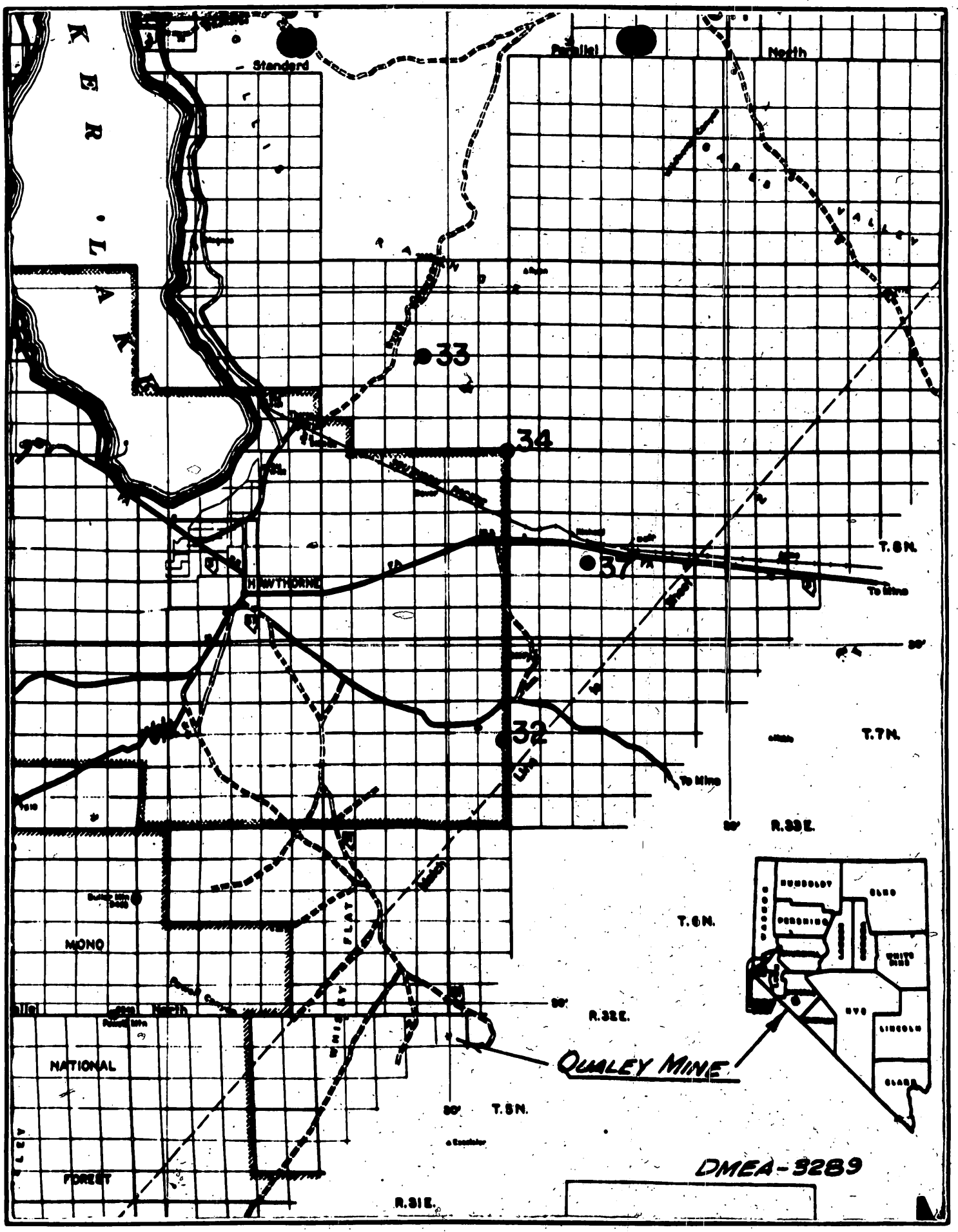

FIG. 1 LOCATION MAP

USBM & USGS

DMEA 3289 TUNGSTEN

Pace & Brunton survey by J. D. Warne & R. G. Reeves, July 1954

FIG. 2

QUALEY MINE MAIN ADIT

MINERAL COUNTY, NEVADA

May 1954

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

Re: Docket No. DMEA 3289 - Tungsten
Werner and Peterson
Quality mine
Mineral County, Nevada

Dear Mr. Miller:

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

The application was poorly prepared and lacked most of the required information. We requested additional data from the applicants March 25, 1954, and again, when no answer had been received, on May 5, 1954. By letter postmarked May 10, 1954, Mr. Werner submitted a rough sketch of the claim map attached to the original application showing the location of the present workings, but not the proposed program.

In reviewing the docket, it was noted that while one of the analyses shown on the sketch map was the same as that given in the application, 2.50% WO_3, the other was shown as .05% WO_3 instead of 1/2% WO_3.

Apparently the information required to process this application cannot be obtained by mail. We will therefore have to depend on the results of the Field Team's conference with Messrs. Werner and Peterson.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

FARutledge:foc 5-14-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

MAY 1 9 1954

Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Quality mine
Mineral County, Nevada

Gentlemen:

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

We have requested Mr. Miller to have a local representative of the Field Team contact you in Reno, Nevada, to ascertain your proposed exploration program in order that its merits may be considered. Any assistance that you can render the members of the Field Team will be appreciated.

Sincerely yours,

J. O. Mittendorf

Administrator

FARUTLEDGE:foc
5-14-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

MAY 5 - 1954

Warner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Quality mine
Mineral County, Nevada

Gentlemen:

Reference is made to your application for exploration assistance under the subject docket. On March 25, 1954, we wrote to you requesting additional information needed to process the application.

In the interest of expediting the Defense Minerals Program, it would be appreciated if you would provide us promptly with the requested information.

Sincerely yours,

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

FARUTLEDGE:fcc
5-4-54
cc to: Docket
Admr. Reading File
Code 400

MAR 2 5 1954

Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Quality mine
Mineral County, Nevada

Gentlemen:

Your application for exploration assistance in exploring for tungsten at the referenced mine has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration.

The information submitted with your application, however, is insufficient to justify a field examination by the Government. To substantiate the occurrence of tungsten on the referenced property and permit us to consider your application further, you should furnish us with the following data:

1. Describe the geologic features of the property, including mineralization, type of deposit, and your reasons for wishing to explore. Illustrate with maps or sketches. Include any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

3. A detailed estimate of the costs of the proposed work.

Your attention is also called to Sec. 2 (a) of the enclosed DMEA Order-1, as amended, as follows: "The work shall not go

beyond a reasonable delineation and sampling of the ore, and shall not include work prosecuted primarily for mining or preparation for mining." The foregoing limitation on development work should be considered in formulating your exploration program. For example a mill, such as you mentioned under Item 6 on the sheet attached to the application, would not be allowed as an exploration cost in which the Government participated.

We will, therefore, hold your application in abeyance until the requested data have been received.

Sincerely yours,

W. S. Martin

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

FARutledge:foc
3-23-54
cc to: Docket
Code 400
Adm. Reading File
R. W. Geehan, USBM
T. P. Thayer, USGS

400
DOCKET
SURNAME
Hopkins
Martin
Geehan
Newcomb
Kilsgaard
Hedges
Bedford

SEP 1 6 1954

Mr. Ryman Werner, Partner
Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Qualey Mine
Mineral County, Nevada

Dear Mr. Werner:

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

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

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

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

JHopkins:foc
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FT. REG. III
R. W. Geehan, USBM
Thor H. Kilsgaard, USGS

R.C.G.

IN REPLY REFER TO:

Docket

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

September 15, 1954

Re: DMEA-3289
Qualey Mine
Mineral Co., Nev.
$11,500 - Tungsten

WSM

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Concurrence with Field Team recommendation for denial

The applicant's proposed exploration consisted of 200 feet of drifting, 100 feet of winzing and 1,000 feet of diamond drilling. Location of work was not given.

The Field Team recommends the proposal be denied.

Scheelite mineralization occurs as thin seams (1/4 to 1/2 inch wide) in a fault zone which varies in thickness from 1.0 to 3.0 feet. Four samples taken underground range from 0.01 to 0.03 percent WO_3. A fifth sample assayed 3.37 percent WO_3, but cannot be considered typical for mine-run ore as it was taken purposely in a high grade spot.

The sampling results, which apparently were taken in the best mineralized, accessible areas in the mine, indicate that a significant amount of tungsten ore is unlikely to be found by the proposed exploration.

I believe the Field Team's recommendation for denial is justified.

E. L. Newcomb

E. L. Newcomb

Copy retained by W. S. Martin

400
DOCKET
SURNAME
Hopkins
Martin
Gechan
Newcomb

September 14, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $11,500.00
Docket No. DMEA 3389 - Tungsten
Hyman Werner and G. A. Peterson
Qualey Mine
Mineral County, Nevada

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

The Qualey Mine area is underlain by sedimentary rocks of Middle Triassic age that have been metamorphosed by a granodiorite intrusive to hornfels and tactite.

The main mine workings consist of a drift-adit about 1900 feet in length, with several short crosscuts and a 200 foot raise connecting with an upper adit 300 feet in length. In addition there are other adits, shafts and shallow prospects on the property.

The mine is reported to have produced a small amount of copper ore, but the present owners have no record of production. Some scheelite mineralization was discovered during 1953.

The ore zone along the mineralized fault cut in the lower adit contains pyrite, chalcopyrite and small amounts of scheelite in a gangue of quartz and altered hornfels minerals.

Scheelite occurs as narrow seams from 1/4 to 1/2 inch wide in a zone 10 feet long and 5 feet high on the footwall of the copper-bearing zone in the fault structure.

The following results were obtained from five samples taken from the lower adit and raise:

R.S.S.

Sample No.	%. Cu	%. WO_3	Oz. Au/T	Oz. Ag/T	Description
1	0.03	0.03	0.01	0.20	Chip sample, 3' long adjacent to face of north crosscut, 40' beyond raise.
2	0.05	*0.01	0.01	0.30	Chip sample 10' long, along north crosscut.
3	0.02	3.37	0.01	1.80	Specimen highgrade in footwall of raise 20-25' above level.
4	0.54	0.02	0.025	4.00	3' horizontal channel across most mineralized zone.
5	0.01	0.05	0.01	1.50	1.5' horizontal channel adjacent to sample No. 4.

(*) Less than

About two tons of indicated ore reserves that contain 3.37 percent WO_3 are included in the ore zone in the raise above the lower adit. A few tons more may be inferred in the same location. Elsewhere along the mineralized zone, the scheelite concentration is so low that it cannot be considered ore.

The Field Team recommended denial of the application because the tungsten mineralized zones are too small or too low grade to allow mining.

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

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

JHopkins:foc
9-14-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

September 14, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $11,500.00
Docket No. DMEA 3289 - Tungsten
Hyman Werner and G. A. Peterson
Qualey Mine
Mineral County, Nevada

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

The Qualey Mine area is underlain by sedimentary rocks of Middle Triassic age that have been metamorphosed by a granodiorite intrusive to hornfels and tactite.

The main mine workings consist of a drift-adit about 1900 feet in length, with several short crosscuts and a 200 foot raise connecting with an upper adit 300 feet in length. In addition there are other adits, shafts and shallow prospects on the property.

The mine is reported to have produced a small amount of copper ore, but the present owners have no record of production. Some scheelite mineralization was discovered during 1953.

The ore zone along the mineralized fault cut in the lower adit contains pyrite, chalcopyrite and small amounts of scheelite in a gangue of quartz and altered hornfels minerals.

Scheelite occurs as narrow seams from 1/4 to 1/2 inch wide in a zone 10 feet long and 5 feet high on the footwall of the copper-bearing zone in the fault structure.

The following results were obtained from five samples taken from the lower adit and raise:

Sample No.	%. Cu	%. WO_3	Oz. Au/T	Oz. Ag/T	Description
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3	0.02	3.37	0.01	1.80	Specimen highgrade in footwall of raise 20-25' above level.
4	0.54	0.02	0.025	4.00	3' horizontal channel across most mineralized zone.
5	0.01	0.05	0.01	1.50	1.5' horizontal channel adjacent to sample No. 4.

(*) Less than

About two tons of indicated ore reserves that contain 3.37 percent WO_3 are included in the ore zone in the raise above the lower adit. A few tons more may be inferred in the same location. Elsewhere along the mineralized zone, the scheelite concentration is so low that it cannot be considered ore.

The Field Team recommended denial of the application because the tungsten mineralized zones are too small or too low grade to allow mining.

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

W S Martin

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

R. M. E. A.

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

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

August 31, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3289 - Tungsten
Werner and Peterson
Qualey Mine
Mineral County, Nevada

Reference is made to your letter dated May 19, 1954, referring the subject application to us for a field examination.

Attached are the original and three copies of a report entitled "DMEA-3289, Qualey Mine, Mineral County, Nevada (Tungsten)," by John D. Warne, Mining Engineer, U. S. Bureau of Mines, and Robert G. Reeves, Geologist, U. S. Geological Survey, dated August 23, 1954.

The engineer and geologist are in agreement that a loan should be denied. According to their report, scheelite occurs as narrow seams 1/4 to 1/2 inch wide and several feet long that are localized mainly along the footwall of the mineralized zone. Tungsten mineralized zones, sampled in the lower adit and raise, are too small and too low grade to make a commercial mining venture.

The report has been discussed with Mr. Roscoe Smith and we concur with the conclusions therein.

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

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
9-13-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3289, Qualey Mine

Mineral County, Nev.

(Tungsten)

John D. Warne, Mining Engineer
U. S. Bureau of Mines

Robert G. Reeves, Geologist
U. S. Geological Survey

August 23, 1954

Reviewed by
DMEA OPERATING COMMITTEE
9-13-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3289

Name and address of applicant: Messrs. Hyman Werner and G. A. Petersen
P. O. Box 1745
Reno, Nevada

Name and location of property: Qualey Mine
SW 1/4 Sec. 2, T. 5 N., R. 31 E.,
16 miles south of Hawthorne,
Mineral County, Nevada

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An examination of the Qualey mine was made by an engineer of the Bureau of Mines and a geologist of the Geological Survey on July 12, 1954. This examination was conducted pursuant to an application for exploration for tungsten by Hyman Werner and G. A. Peterson on March 9, 1954 and supplemented June 10, 1954.

The Qualey mine, located for copper in 1903, is located about 16 miles south of Hawthorne, Mineral County, Nev. (fig. 1). The main working consists of a 1900 foot drift adit (fig. 2) where some scheelite tungsten mineralization was discovered during 1953.

The applicant proposed a project estimated to cost $11,500.00; however, he did not indicate a definite location or objective for the work.

Tungsten mineralized zones, sampled in the lower adit and raise, are too small or too low in grade to allow mining. It is recommended that a loan be denied.

LOCATION AND ACCESSIBILITY

The Qualey mine is situated on the northwest slope of the Excelsior Mountains at an altitude of about 5800 feet above sea level. It is located about 16 miles south of Hawthorne, Nev., in the Whiskey Flat mining district, in the SW 1/4 of sec. 2, T. 5 N., R. 31 E., M.D.B.&M., Mineral County, Nevada (fig. 1).

It is accessible by automobile throughout the year by Nevada State Highway No. 31 a distance of 17 miles south of Hawthorne, thence eastward on an unimproved desert road a distance of 5 miles across Whiskey Flat, and finally by a steep mountain access road of 0.5 mile in length to the mine. A low geared vehicle is required to negotiate the last portion of the access road.

COMPETENCY OF APPLICANT

The financial responsibility of the applicant is not known. Mr. Hyman Werner has had very little practical mining experience as indicated by his application and conduct during the examination. Mr. G. A. Peterson, his partner, has operated several small mine properties in Nevada, and he is considered capable of operating an exploration project.

APPLICANT'S PROPERTY RIGHTS

The total property consists of four patented mining claims held jointly by Mr. Hyman Werner and Mr. G. A. Peterson. These claims known as the Roosevelt, Columet, Nevada, and Great Eastern, U. S. Mineral Survey No. 3303 are located within the SW 1/4 of sec. 2 and the

SE 1/4 of sec. 3, T. 5 N., R. 31 E., M.D.B.&M., Whiskey Flat mining district, Mineral County, Nev. These claims are recorded in the Mineral County Courthouse at Hawthorne, Nev., according to the applicant.

DESCRIPTION OF PROPERTY

No buildings or mine plant equipment exist on the property, and no underground facilities or equipment has been left in the mine.

The main Qualey mine working consists of a lower drift-adit about 1900 feet in length leading southeastward from its portal with several short crosscut and drifts near its terminal to explore the mineralized zones (fig. 2). A raise of about 200 feet in length, which is located 100 feet west of the terminus of lower adit, connects with an upper adit of about 300 feet in length. These mine workings are located on the Roosevelt claim. Other adits, shafts, and shallow prospects exist on the property in the vicinity of the mine.

PROPOSED EXPLORATION

The applicant's proposal consisted of the following work and estimated costs:

Drifting, 200 feet @ $20.00/ft.	$ 4,000.00
Winzing, 100 feet @ $20.00/ft.	2,000.00
Diamond drilling, 1,000 feet @ $5.50/ft.	5,500.00
	$11,500.00

The locations and objectives of the proposed work were not given by Mr. Werner, who prepared the application on the basis that scheelite

tungsten mineralization existed in the Qualey mine as reported to him by his partner, Mr. Gunner Peterson. Mr. Werner had no previous knowledge that tungsten occurred in the mine, and he had not inspected it. Consequently, the proposed exploration project and application were poorly conceived and prepared.

The original application, dated March 9, 1954, did not include a description of the proposed exploration . Also, he failed to state quantity and estimated cost of the proposed project. On June 10, 1954, Mr. Werner was contacted by John D. Warne, mining engineer , U. S. Bureau of Mines and some supplemental information was obtained, but the complete proposal could not be elicited from the applicant. It appeared that he hoped that the Bureau of Mines and Geological Survey representatives would suggest an exploration program to be followed.

SAMPLING

Six samples were taken from the lower adit and raise as shown in fig. 2. Descriptions and analysis by the Bureau of Mines Hydrometallurgical and Ore Dressing Branch are as follows:

Sample No.	%, Cu	%, WO_3	Oz. Au/T	Oz. Ag/T	Description
1	0.03	0.03	0.01	0.20	Chip sample, 3 feet in length, adjacent to face of north crosscut, 40 feet beyond raise.
2	0.05	*0.01	0.01	0.30	Chip sample, 10 feet in length, along north crosscut.
3	0.02	3.37	0.01	1.80	Specimen sample of highest grade spots of scheelite in footwall or raise, 20 to 25 feet above lower adit level.

Sample No.	%, Cu	%, WO_3	Oz. Au/T	Oz. Ag/T	Description
4	0.54	0.02	0.025	4.00	3-foot horizontal channel sample across most mineralized zone.
5	0.01	0.05	0.01	1.50	1.5-foot horizontal channel sample adjacent to sample No. 4.

*Less than.

PAST OPERATION

The Roosevelt mining claim of the Qualey mine was located in 1903 and patented in 1906 by the Excelsior Mountain Copper Co. A small amount of copper ore is believed to have been mined, but present owners have no record of past production.

Scheelite tungsten mineralization was discovered by Mr. G. A. Peterson in 1950.

GEOLOGY

The mine area is underlain by sedimentary rocks of the Excelsior formation of Middle Triassic age that have been intruded and metamorphosed by granodiorite (Ferguson and Muller, 1949, p. 4, 15; pl. I and II). In the mine area, the Excelsior formation rocks are metamorphosed to hornfels and tactite; they strike generally northeasterly, and dip from 45° northwest to vertical. Dikes and apophyses of coarse-grained granodiorite composed mainly of plagioclase and orthoclase with a small amount of biotite and hornblende cut the tactite and hornfels.

An east-trending mineralized fault that dips from 70° south to vertical is cut in the lower adit.

ORE DEPOSITS

The ore zone along the mineralized fault cut in the lower adit contains pyrite, chalcopyrite, and small amounts of scheelite in a gangue of quartz and altered hornfels minerals. The zone is from 1 to 3 feet wide, although where cut by cross faults, may widen to as much as 10 feet. Scheelite occurs as narrow "seams", from 1/4 to 1/2 inch wide and several feet long that are localized mainly along the footwall of the mineralized zone. In the raise near the face of the lower adit, there is a small concentration of scheelite about 25 feet above the adit floor. The scheelite-bearing zone is about 10 feet long and 5 feet high, and consists of 1/2 inch seams of scheelite on the footwall of the copper-bearing zone.

About two tons of indicated ore reserves that contain 3.37 percent WO_3 are contained in the ore zone in the raise above the lower adit. A few tons more may be inferred in the same location. Elsewhere along the mineralized zone, the scheelite concentration is so low that it cannot be considered ore.

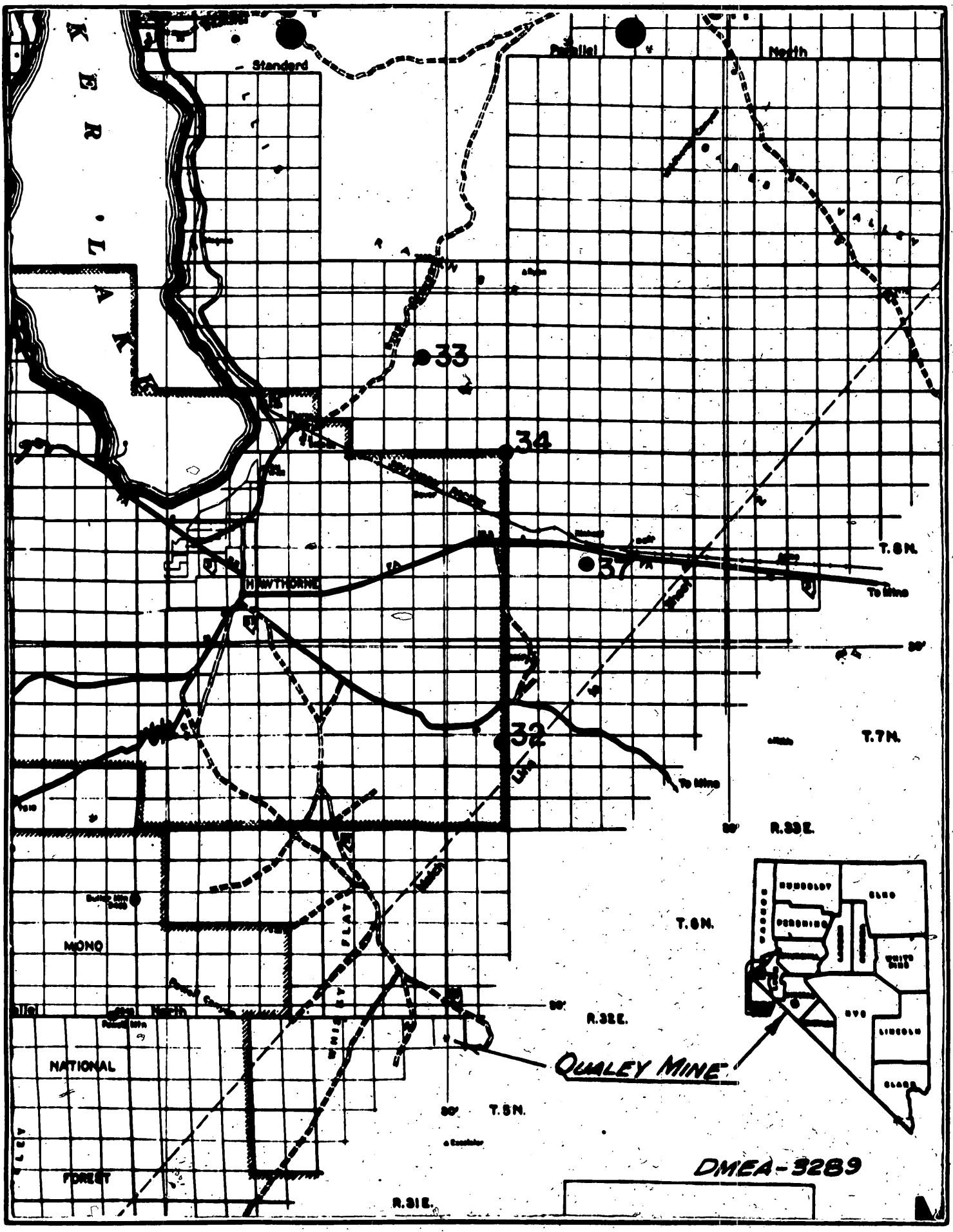
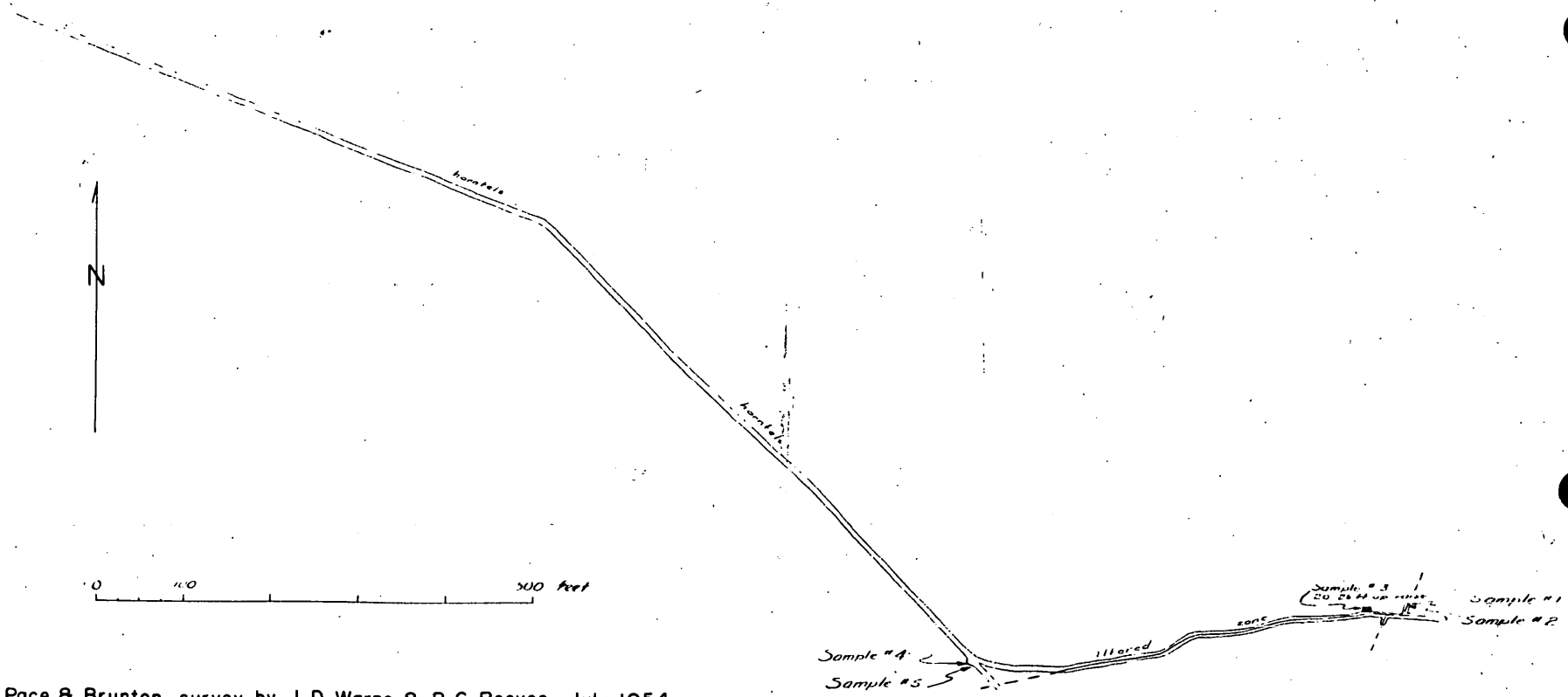


FIG. 1 LOCATION MAP

USBM & USGS

DMEA 3289 TUNGSTEN



Pace & Brunton survey by J. D. Warne & R. G. Reeves, July 1954

QUALEY MINE MAIN ADIT

MINERAL COUNTY, NEVADA

FIG. 2

400

DOCKET
SURNAME
Rutledge
Martin
Geehan
Kleiff
Selfridge
Johnson

MAY 1 3 1954

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

Re: Docket No. DMEA 3289 - Tungsten
Werner and Peterson
Quality mine
Mineral County, Nevada

Dear Mr. Miller:

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

The application was poorly prepared and lacked most of the required information. We requested additional data from the applicants March 25, 1954, and again, when no answer had been received, on May 5, 1954. By letter postmarked May 10, 1954, Mr. Werner submitted a rough sketch of the claim map attached to the original application showing the location of the present workings, but not the proposed program.

In reviewing the docket, it was noted that while one of the analyses shown on the sketch map was the same as that given in the application, 2.50% WO_3, the other was shown as .05% WO_3 instead of 1/2% WO_3.

Apparently the information required to process this application cannot be obtained by mail. We will therefore have to depend on the results of the Field Team's conference with Messrs. Werner and Peterson.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GLB)

APPROVED:

J. H. Hedges (GLB)
Member, Bureau of Mines

T. P. Thayer (GLB)
Member, Geological Survey

FARutledge:fec 5-14-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.M.

400

Docket
Surname
Rutledge
Martin
Geehan
Guild
Hodges
Thayer
Sefferge
Johnson

MAY 19 1954

Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Quality mine
Mineral County, Nevada

Gentlemen:

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

We have requested Mr. Miller to have a local representative of the Field Team contact you in Reno, Nevada, to ascertain your proposed exploration program in order that its merits may be considered. Any assistance that you can render the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARUTLEDGE:foc
5-14-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.G.

HOTEL
GOLDEN
RENO, NEVADA

Defense Minerals Administration
RECEIVED
MAY 12 1954

U. S. Dept Int.
Docket # D.M.E.A. 3289

Gentlemen -

Enclose found a crude map - that I enclosed with original application -

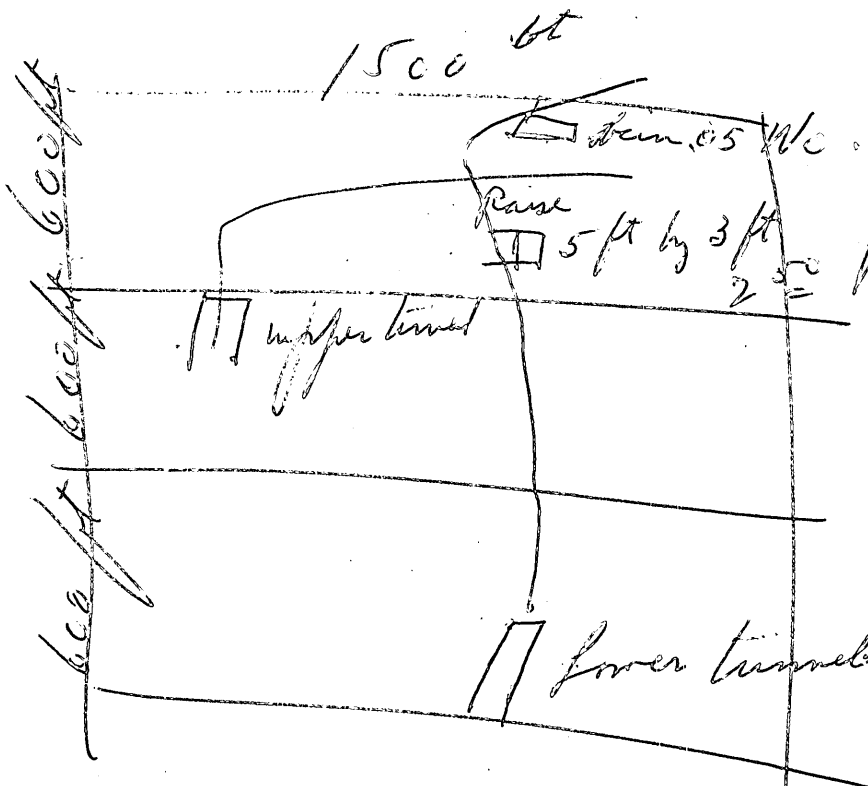
very truly Yours

Ly Werner

Werner & Peterson
P.O. Box 1745
Reno Nevada

HOTEL GOLDEN
RENO, NEVADA

P.O. Box 1245 Reno
Werner & Peterson
3 patented claims



High grade W.O. in Adit and on top and on footwall in raise - will accompany your engineers anytime they are ready to look at property

P.O. Box 1745

HOTEL GOLDEN
POST OFFICE BOX 681
RENO, NEVADA

RENO, NEV.
MAY 10
5 PM
1954

AIR MAIL
6¢
U.S. POSTAGE

Air Mail

U. S. Dept of Interior

Washington #25

D. C.

Defense Minerals Exp. Adm.

400

Docket
Surname
Rutledge
Martin
Whitehorn

MAY 5 - 1954

Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Quality mine
Mineral County, Nevada

Gentlemen:

Reference is made to your application for exploration assistance under the subject docket. On March 25, 1954, we wrote to you requesting additional information needed to process the application.

In the interest of expediting the Defense Minerals Program, it would be appreciated if you would provide us promptly with the requested information.

Sincerely yours,

SIGNED

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

FARUTLEDGE:foc
5-4-54
cc to: Docket
Admr. Reading File
Code 400

R.L.B.

400

DOCKET
SURNAME

Rutledge
Martin
Mattendorf

MAR 2 6 1954

Werner and Peterson
P. O. Box 1745
Reno, Nevada

Re: Docket No. DMEA 3289 - Tungsten
Quality mine
Mineral County, Nevada

Gentlemen:

Your application for exploration assistance in exploring for tungsten at the referenced mine has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration.

The information submitted with your application, however, is insufficient to justify a field examination by the Government. To substantiate the occurrence of tungsten on the referenced property and permit us to consider your application further, you should furnish us with the following data:

1. Describe the geologic features of the property, including mineralization, type of deposit, and your reasons for wishing to explore. Illustrate with maps or sketches. Include any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

3. A detailed estimate of the costs of the proposed work.

Your attention is also called to Sec. 2 (a) of the enclosed DMEA Order-1, as amended, as follows: "The work shall not go

R.C.B. 3-25-54

beyond a reasonable delineation and sampling of the ore, and shall not include work prosecuted primarily for mining or preparation for mining." The foregoing limitation on development work should be considered in formulating your exploration program. For example a mill, such as you mentioned under Item 6 on the sheet attached to the application, would not be allowed as an exploration cost in which the Government participated.

We will, therefore, hold your application in abeyance until the requested data have been received.

Sincerely yours,

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

FARutledge:foc
3-23-54
cc to: Docket
Code 400
Adm. Reading File
R. W. Geehan, USBM
T. P. Thayer, USGS

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

March 22, 1954
Subject: DMEA-3289
Re: Exploration Assistance
Quality Mine

Werner & Peterson
P. O. Box 1745
Reno, Nevada

Dear Sirs:

The receipt of your application dated March 9, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3289 and referred to the Iron and Ferro Alloys Division.

Kindly refer to DMEA-3289 in any future correspondence relating to your application.

Sincerely yours,

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

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3289
Metal or Mineral Tungsten
Date Received
Estimated Cost not given
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Werner and Peterson
Hyman Werner) P.O. Box 1745
Gunner Peterson) Reno, Nevada

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

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Hyman Werner Nev. P.O. Box 1745, Reno, Nevada; Gunner Peterson, Peper Patio, Carson City,/

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract from patented claims #1728
Roosevelt-Calumet-Nevada-Great Eastern

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

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

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

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

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

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

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

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

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

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

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

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

(*c*) The work will start within 30 days and be completed within 12 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated March 9, 1954

Werner & Peterson
(Applicant)

By Duncan Werner
P O Box 1745
Reno Nevada

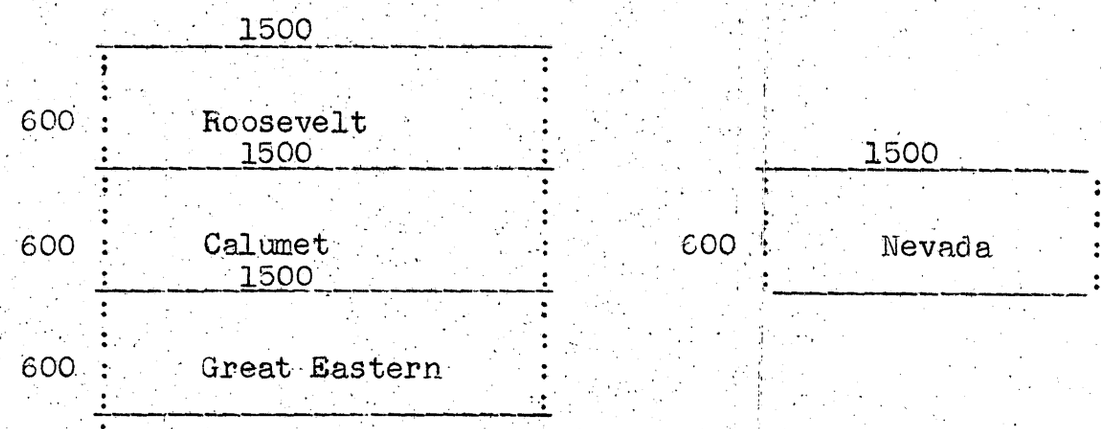
Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

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

"A" Upper tunnell - 150 ft. Lower tunnell 1500 ft. connects with upper tunnell. Raise about 200 ft. Paved road about 2 miles from mine. On power highway from Hawthorne, Nevada, to about Leavining, California about 16 miles southwest of Hawthorne. Will accompany your engineers.
Mineral County, Nev.

"B" Shipped ~~about~~ few carloads of copper ore. Never worked for tungsten.

"C" In raise on footwall about 50 ft. op. Showing of W.O. Five by three ft. goes 2 1/2 %, also vein about 4 ft. wide goes 1/2% w. O. High grade float in drains.



Raise on Calumet -Vein in Great Eastern

"D" Road to lower tunnell from power highway

~~No. 5~~ "E" Furnish heavy equipment. All man power available. No.5 /"D" G. Peterson- assayer mine operator. H. Werner, mine operator.

No. 6 Estimate to hire four men besides ourselves supervising. Maybe ereet or buy a mill. 25,000 to 50,000.

No. 6 "B" union wages plus 50.00 per week for Peterson, 50.00 per week for Hy Werner, one of us to be there most of the time- plus auto mileage.

"L" Compressor trucks, hammers and other equipment to be furnished by us.

"E" none

"F2 none