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DMA Docket No. DMEA-3203

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3203

Tung

APR 2 1954

Mr. Milton V. Taylor, Manager
T. N. T. Lease
P. O. Box 323
Battle Mountain, Nevada

Re: Docket No. DMEA 3203 - Tungsten
Mountain Queen No. 5 claim
Humboldt County, Nevada

Dear Mr. Taylor:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-referenced 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 the occurrence 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. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

W. G. Wiesenders

Administrator

cc: DOCKET
FT, REG. III
DEM. READ. FILE
CODE 400
R. W. GEEHAN, USBM
P. W. GUILD, USGS
Operating Committee
FARutledge/ls
3/31/54

March 31, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $21,648.00
Docket No. DMEA 3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

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

(1) The applicants proposed to explore a g ranodiorite-hornfels contact for tungsten by: (a) Stripping the overburden from an area 100 feet wide by 400 feet long, (b) Driving 3 open cuts across the best showing uncovered by Stage (a) above, and (c) 1,000 feet of diamond drilling to further explore the deposit at depth.

(2) Garnet tactite has formed locally wherever calcareous lenses are in contact with the granite but the bodies are small, discontinuous, and extend only a short distance from the contact.

(3) Analyses of the three samples taken by the examining Field Team indicate the scheelite-bearing tactite is not of ore grade. Each of the three samples represented one or more of the small lenses of tactite exposed.

Sample No.	% WO_3	Description
531	0.18	South face of shaft (waist high)
532	0.18	3 ft. wide. 100 ft. S. 75° E. of 532
533	0.34	Two 1-foot pods of ore.

(4) Slope wash covers the contact between the granodiorite and the metamorphic rocks to a depth of one to two feet but does not hide the type of rock nor the configuration of the contact except for minor variations. The area along the contact between the two exposures and the slope below was traversed carefully with an ultraviolet light

but failed to disclose any scheelite-bearing material in the slope wash. Considering that the beds strike into the granodiorite contact and that the carbonate-rich lenses are thin and discontinuous, the scheelite-bearing tactite pods probably do not continue downward more than a few feet below the outcrop, and do not form a continuous zone along the contact.

(5) The examining Field Team recommended that the exploration loan request be denied.

(6) Though the Field Team report stated that "A few trenches, 2 feet wide, 2 or 3 feet deep, and approximately 25 feet long should suffice to prove or disprove the continuity of the scheelite-bearing tactite along the contact," this statement does not appear to us to indicate that the Field Team believes this work is either necessary or desirable. It seems more likely that the Field Team was only outlining what would have been a more practical approach if the examination had indicated that the deposit warranted exploration.

(7) The Field Team concurs with the recommendations of the examining engineer and geologists.

(8) 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

CC: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMM.

FARutledge/ls
3/31/54

400

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

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

March 17, 1954

Memorandum

WGM

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-3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 Claim
Humboldt County, Nevada

On November 27, 1953, Mr. W. S. Martin, of your office, submitted the subject docket to us with the request that we review it and make a field examination of the property. This has now been done, and there are attached four copies of a report entitled "DMEA-3203, Mountain Queen No. 5 Claim, (T. N. T. Lease), Humboldt County, Nevada, (Tungsten)," by Harold Stager and Ron Willden, Geologists, U. S. Geological Survey, and Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated March 10, 1954.

According to the examining engineer and geologists, the applicants' proposal to strip overburden from an area 100 feet wide by 400 feet long in order to expose the formations is not justified, as the slope wash is shallow and a few trenches should suffice to determine the continuity of the scheelite-bearing tactite along the contact. Diamond drilling, as proposed by the applicant, could not be justified unless a more-or-less continuous zone of tactite or favorable host rock was developed along the contact.

The engineer and geologists conclude that in view of the small size and erratic distribution of the scheelite-bearing lenses and the absence of a geological host rock, Government participation in a DMEA exploration program for the Mountain Queen No. 5 Claim is

Reviewed by
DMEA OPERATING COMMITTEE
3-26-54
(date)

not warranted. It is their recommendation that the request for an exploration loan be denied.

Mr. Smith and I concur with the recommendations of the examining engineer and geologists.

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

Attachment

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3203, Mountain Queen No. 5 Claim

(T. N. T. Lease)

Humboldt County, Nevada

(Tungsten)

Harold Stager, Geologist
Ron Willden, Geologist
U. S. Geological Survey

Frank J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

March 10, 1954

Reviewed by
DMEA OPERATING COMMITTEE
3-26-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3203 (Tungsten)

Name and address of applicant: Kenneth J. Neilson
P. O. Box 323
Battle Mountain, Nev.

Lyman Thomas
P. O. Box 92
Battle Mountain, Nev.

Milton V. Taylor
P. O. Box 235
Battle Mountain, Nev.

Robert L. Taylor
P. O. Box 323
Battle Mountain, Nev.

Name and location of property: Mountain Queen No. 5 Claim
(T.M.T. Lease)
Humboldt County, Nevada

SUMMARY

Pursuant to an "Application for Aid in an Exploration Project" an examination of the Mountain Queen No. 5 claim was made by two geologists of the Geological Survey and an engineer of the Bureau of Mines.

The property is about a mile west of the Getchell mine and mill in Humboldt County, Nev.

The Mountain Queen No. 5 tungsten deposit is on a contact between granodiorite and argillaceous hornfels. Garnet-tactite has formed locally wherever calcareous lenses are in contact with the granite but the bodies are small, discontinuous, and extend only a short distance from the con-

tact. Analyses of three samples taken from the scheelite-bearing tactite indicate the material is not of ore grade.

The applicant's proposed exploration program consists of the following:

> **Stage I:** Building access road and stripping overburden off an area 100 feet wide and 400 feet long so as to clearly expose the formations.
>
> **Stage II:** At points of best showings uncovered in Stage I, drive 3 open cuts 7 feet wide, 10 feet deep and 50 feet long at points decided upon by operators and DMEA engineers and geologists.
>
> **Stage III:** In the event commercial showings are discovered in Stage II, 1000 feet of diamond drilling.

The applicant estimates the proposed exploration program will cost $21,648.

CONCLUSIONS

The applicant's proposal to scrape an area 100 feet by 400 feet to expose the contact is not justified. The slope wash covers the contact between the granodiorite and the metamorphic rocks to a depth of one to two feet and a few trenches, 2 feet wide, 2 or 3 feet deep and approximately 25 feet long should suffice to prove or disprove the continuity of the scheelite-bearing tactite along the contact. Unless a more-or-less continuous zone of tactite or favorable host rock is developed along the outcrop, a diamond drilling program to prove continuity at depth would be

difficult to plan or justify.

In view of the small size and erratic distribution of the scheelite-bearing tactite lenses and the absence of a geological host rock, it is the opinion of the examiners that Government participation in an exploration program for the Mountain Queen No. 5 claim is unwarranted.

RECOMMENDATIONS

It is recommended by the examiners that the exploration loan request be denied.

TIME SPENT ON PROPERTY

The examiners consisting of Harold Stager and Ron Willden of the U. S. Geological Survey and Frank J. Wiebelt of the U. S. Bureau of Mines spent the evening of February 9 and the morning of February 10, 1954 on the property. They were accompanied during the examination by Lyman Thomas, Robert L. Taylor and Ray Jepperson of the mining company.

NAME AND LOCATION OF PROPERTY

The property is known as the Mountain Queen No. 5 claim and is situated in sec. 32, T. 39 N., R. 42 E. in the Potosi Mining District, Humboldt County, Nev. The property is somewhat less than one mile west of the Getchell Mine and mill. From the latter property it is accessible by half a mile of dirt road and about one quarter mile of trail. The nearest town is Golconda, 28 miles distant from the mine. Winnemucca, Nevada is 44 miles distant from the property.

ACCESSIBILITY

The portion of the highway to the property up to the Getchell mill is paved with the exception of the last 10.9 miles which is an improved graveled road and is accessible throughout the year. The half mile of dirt road from the Getchell mill towards the property is accessible at times during the winter season by four wheel drive cars only.

COMPETENCY OF APPLICANT

The partnership, who are applying for the DMEA exploration loan, are successfully operating a property in the near vicinity of the Mountain Queen No. 5 claim and appear capable of carrying out an exploration program.

APPLICANTS PROPERTY RIGHTS

The property is owned by the partnership and consists of one unpatented claim, the Mountain Queen No. 5 claim. The record of location notice is recorded in Book A4, page 312, Winnemucca, Humboldt County, Nev., according to the applicants application.

DESCRIPTION OF PROPERTY

The property has no surface or underground facilities. The only work done on the property consists of a shaft 5 feet deep and a small amount of stripping.

The examiners took three samples from the property. The data on these samples follow:

Sample No.	%, WO_3	Description
531	0.18	South face of 5'x5'x5' shaft (waist high)
532	0.18	3 feet wide - 100 feet. S. 75° E. from sample 531
533	0.34	Two - 1-foot pods of ore.

The location of the above samples are shown on the sketch map of the plan of the prospect on the Mountain Queen No. 5 claim which accompanies this report (see fig. 2).

GEOLOGY

The Mountain Queen No. 5 claim is on a contact between granodiorite and argillaceous hornfels at the north end of the Osgood Range. The granodiorite is the principal intrusive rock in the area and is part of the stock that forms the core of the range. It is equigranular, medium coarse-grained, light colored rock containing plagioclase, orthoclase, quartz, biotite, and hornblende. The argillaceous hornfels is a blue-gray to brownish, fine grained, well indurated, poorly bedded rock with locally thin carbonate-rich lenses. The bedding in the hornfels strikes N. 15° E., dips 65° E., and is truncated by the granodiorite. Several layers of crystalline limestone occur within a half mile of the area, but none were observed within the limits of the claim. A "limestone bed" described by the applicants as occurring on the claim, on examination proved to be an aplite dike. Garnet-tactite has formed locally wherever calcareous lenses are in contact with the granodiorite but the bodies are small, discontinuous, and extend only a short distance from the contact.

The tungsten mineral scheelite was observed at three places on

the claim (fig. 2). A small pit, near the center of the claim, exposes a 4-foot pod of scheelite-bearing tactite next to the granodiorite that assayed 0.18 percent WO_3. A bulldozer cut in the slope wash, 100 feet east of the pit, exposes a 3-foot pod of scheelite-bearing tactite next to the granodiorite contact that assayed 0.18 percent WO_3, and two isolated 1-foot pods that assayed 0.34 percent WO_3. These assays are not of ore grade nor do they represent a continuous minable layer of material. The area along the contact between the two exposures and the slope below was traversed carefully with an ultraviolet light but failed to disclose any scheelite-bearing material in the slope wash. Considering that the beds strike into the granodiorite contact and that the carbonate-rich lenses are thin and discontinuous, the scheelite-bearing tactite pods probably do not continue downward more than a few feet below the outcrop, and do not form a continuous zone along the contact. In the absence of limestone beds of appreciable thickness and continuity in contact with the granodiorite on the claim, the probability of developing minable quantities of ore is poor.

PAST OPERATION

The mine is in the prospect stage and has no production record.

MANPOWER, SUPPLIES, ETC.

Manpower, materials, supplies and equipment are available from Winnemucca, Nev., 44 miles distant, Battle Mountain, Nev., 65 miles distant and Getchell about one mile distant.

Water and power are available from Getchell, Nev.

APPLICANTS PROPOSAL

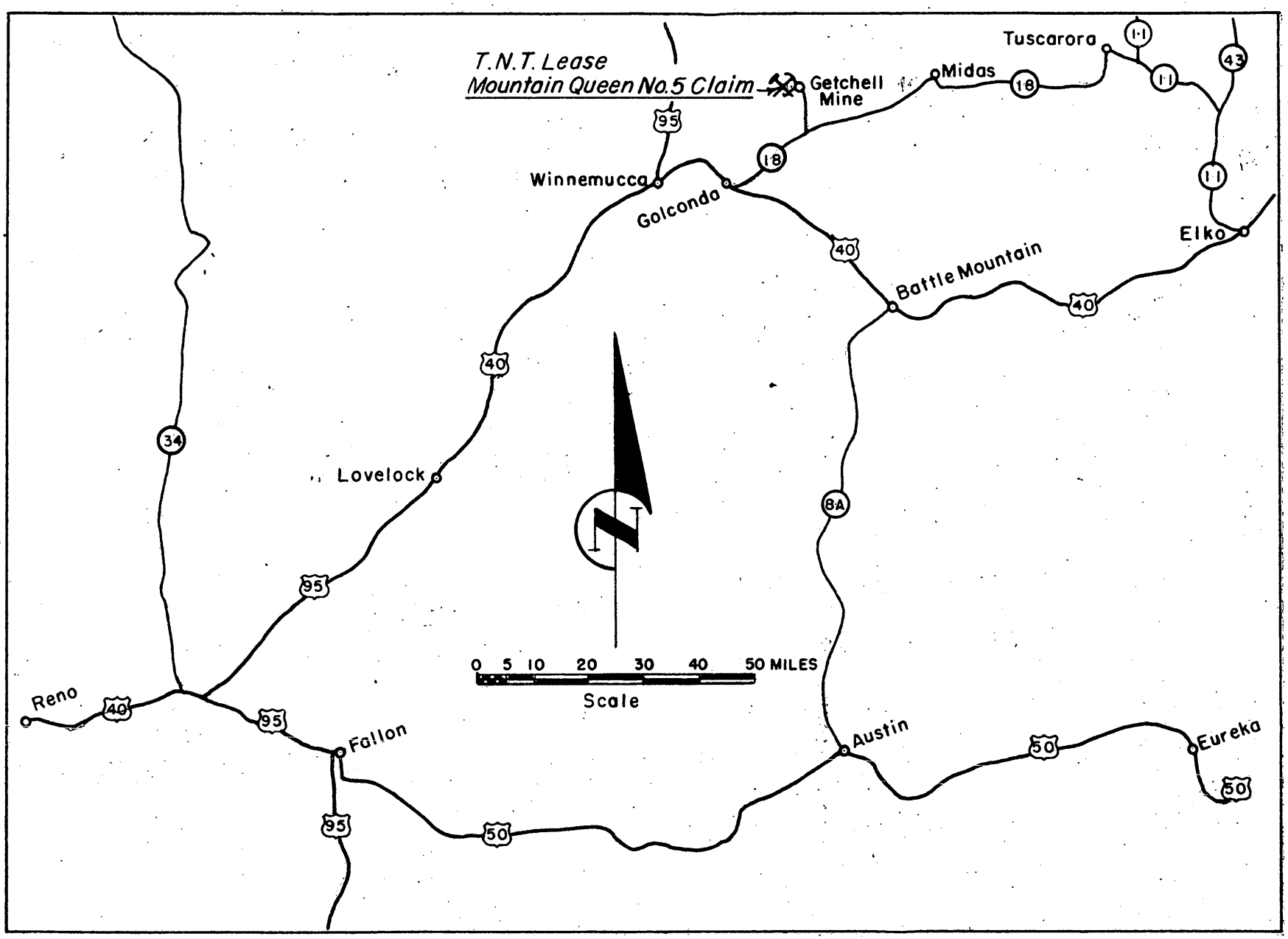
The applicants proposal follows:

Stage I: Building access road to the deposit and stripping overburden off an area 100 feet wide and 400 feet long so as to clearly expose the formations.

Stage II: At points of best showings uncovered in Stage I drive three open cuts 7 feet wide, 10 feet deep and 50 feet long.

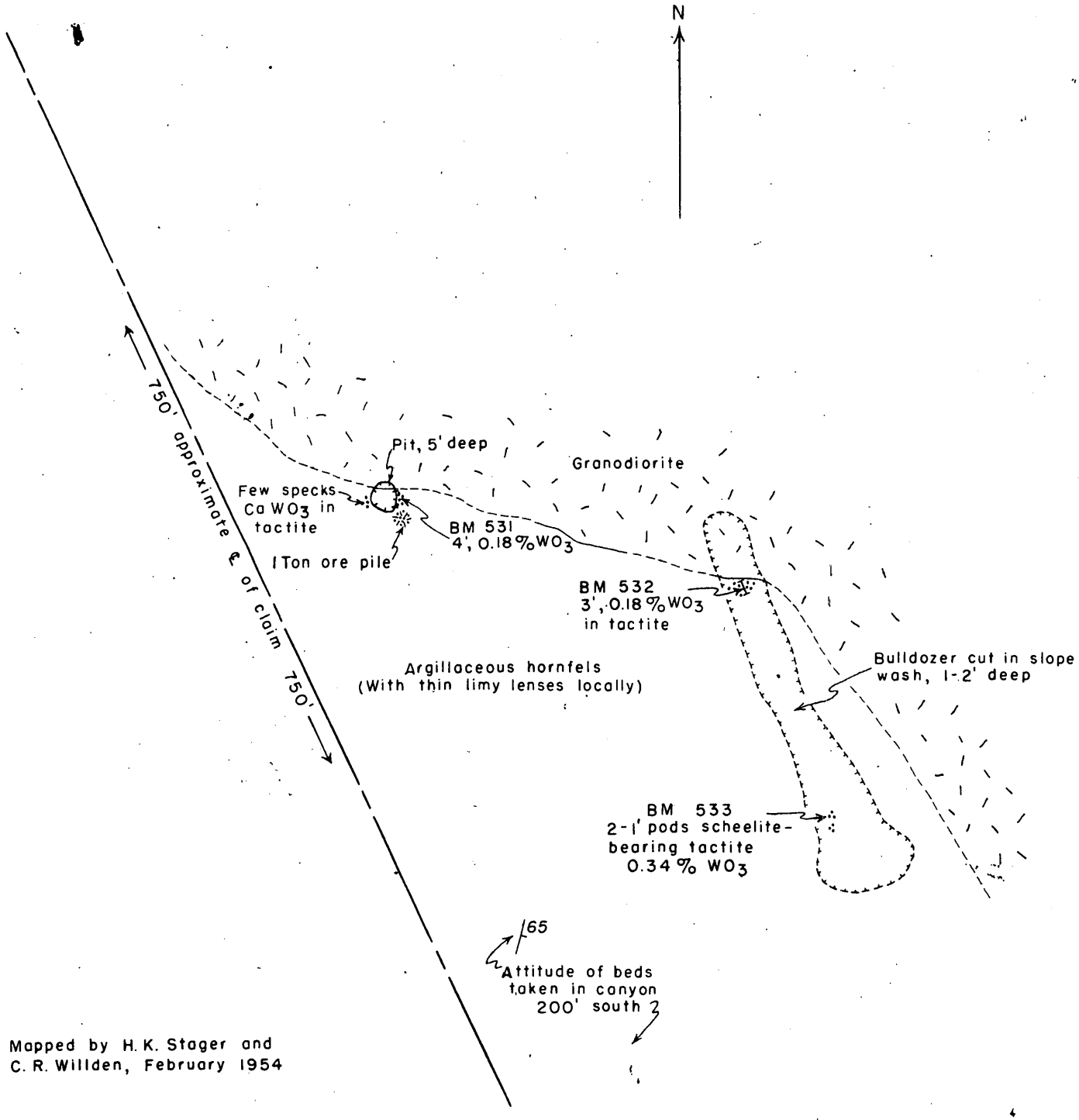
Stage III: In the event commercial showings are discovered in Stage II, 1000 feet of diamond drilling.

Slope wash covers the contact between the granodiorite and the metamorphic rocks to a depth of one to two feet but does not hide the type of rock nor the configuration of the contact except for minor variations. The plan to scrape an area (see Stage I of applicants proposal) 100 feet by 400 feet in order to expose the contact is not justified. A few trenches, 2 feet wide, 2 or 3 feet deep and 25 feet more or less long should suffice to prove or disprove the continuity of the scheelite-bearing tactite along the contact. Unless a more or less continuous zone of tactite or favorable host rock is developed along the outcrop, a diamond drilling program to prove continuity at depth would be difficult to plan or justify.



Location map, Mountain Queen No.5 claim, T.N.T. lease, Humboldt County, Nevada.

Figure 1.



SKETCH MAP OF PROSPECT ON MOUNTAIN QUEEN NO. 5 CLAIM
OSGOOD RANGE, HUMBOLDT COUNTY, NEVADA

40 0 40 80 FEET

Figure 2.

NOV 27 1953

Mr. Milton V. Taylor, Manager
T. N. T. Lease
P. O. Box 323
Battle Mountain, Nevada

Re: Docket No. DMEA 3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

Dear Mr. Taylor:

Your application for assistance in exploring a tungsten occurrence on your Mountain Queen No. 5 claim in Humboldt County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1612 Flood Building, 870 Market Street, San Francisco 2, California, for further consideration and a field examination of the property.

At the time an examination is made, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

O. O. Mittendorf

Administrator

CC: Docket
Field Team, Reg. 3
Code 400
Adm. Read. File
R. W. Geehan, USBM
T. P. Thayer, USGS

JHopkins/ls 11/18/53

400

NOV 27 1953

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

Re: Docket No. DMEA 3203 - Tungsten
W. A. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

Dear Mr. Miller:

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

This referral is made without the customary memoranda attachments because information on this particular tungsten occurrence appears to be lacking in the Washington offices of the Geological Survey and the Bureau of Mines.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee

ACCEPTED:

J. H. Hodges

Member, Bureau of Mines

D. M. Barnhee

Member, Geological Survey

cc: Docket
FT, Reg. 3
Code 400
Oper. Comm.
Adm. Read. File
R. M. Geehan, USBM
T. P. Thayer, USGS

JHopkins/ls 11/19/53

Rutledge
Martin
Geehan
Guild
Lovelace
Hedger
Selfridge
Johnson

APR 2 1954

Mr. Milton V. Taylor, Manager
T. N. T. Lease
P. O. Box 323
Battle Mountain, Nevada

Re: Docket No. DMEA 3203 - Tungsten
Mountain Queen No. 5 claim
Humboldt County, Nevada

Dear Mr. Taylor:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-referenced 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 the occurrence 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. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf (for)
Administrator

cc: DOCKET
FT, REG. III
DDM. READ. FILE
CODE 400
R. W. GEEHAN, USBM
P. W. GUILD, USGS
Operating Committee

FARutledge/ls
3/31/54

R.C.J.

Rutledge
Martin
Guhon
Guild

March 31, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $21,648.00
Docket No. DMEA 3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

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

(1) The applicants proposed to explore a g ranodiorite-hornfels contact for tungsten by: (a) Stripping the overburden from an area 100 feet wide by 400 feet long, (b) Driving 3 open cuts across the best showing uncovered by Stage (a) above, and (c) 1,000 feet of diamond drilling to further explore the deposit at depth.

(2) Garnet tactite has formed locally wherever calcareous lenses are in contact with the granite but the bodies are small, discontinuous, and extend only a short distance from the contact.

(3) Analyses of the three samples taken by the examining Field Team indicate the scheelite-bearing tactite is not of ore grade. Each of the three samples represented one or more of the small lenses of tactite exposed.

Sample No.	% WO_3	Description
531	0.18	South face of shaft (waist high)
532	0.18	3 ft. wide. 100 ft. S. 75° E. of 532
533	0.34	Two 1-foot pods of ore.

(4) Slope wash covers the contact between the granodiorite and the metamorphic rocks to a depth of one to two feet but does not hide the type of rock nor the configuration of the contact except for minor variations. The area along the contact between the two exposures and the slope below was traversed carefully with an ultraviolet light

R.C.S.

but failed to disclose any scheelite-bearing material in the slope wash. Considering that the beds strike into the granodiorite contact and that the carbonate-rich lenses are thin and discontinuous, the scheelite-bearing tactite pods probably do not continue downward more than a few feet below the outcrop, and do not form a continuous zone along the contact.

(5) The examining Field Team recommended that the exploration loan request be denied.

(6) Though the Field Team report stated that "A few trenches, 2 feet wide, 2 or 3 feet deep, and approximately 25 feet long should suffice to prove or disprove the continuity of the scheelite-bearing tactite along the contact," this statement does not appear to us to indicate that the Field Team believes this work is either necessary or desirable. It seems more likely that the Field Team was only outlining what would have been a more practical approach if the examination had indicated that the deposit warranted exploration.

(7) The Field Team concurs with the recommendations of the examining engineer and geologists.

(8) 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

CC: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMM.

FARutledge/ls
3/31/54

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

March 31, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $21,648.00
Docket No. DMEA 3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

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(7) The Field Team concurs with the recommendations of the examining engineer and geologists.

(8) 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

Docket

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

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

March 17, 1954 WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 Claim
Humboldt County, Nevada

On November 27, 1953, Mr. W. S. Martin, of your office, submitted the subject docket to us with the request that we review it and make a field examination of the property. This has now been done, and there are attached four copies of a report entitled "DMEA-3203, Mountain Queen No. 5 Claim, (T. N. T. Lease), Humboldt County, Nevada, (Tungsten)," by Harold Stager and Ron Willden, Geologists, U. S. Geological Survey, and Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated March 10, 1954.

According to the examining engineer and geologists, the applicants' proposal to strip overburden from an area 100 feet wide by 400 feet long in order to expose the formations is not justified, as the slope wash is shallow and a few trenches should suffice to determine the continuity of the scheelite-bearing tactite along the contact. Diamond drilling, as proposed by the applicant, could not be justified unless a more-or-less continuous zone of tactite or favorable host rock was developed along the contact.

The engineer and geologists conclude that in view of the small size and erratic distribution of the scheelite-bearing lenses and the absence of a geological host rock, Government participation in a DMEA exploration program for the Mountain Queen No. 5 Claim is

Cleared by 3-26-54
OG

not warranted. It is their recommendation that the request for an exploration loan be denied.

Mr. Smith and I concur with the recommendations of the examining engineer and geologists.

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

Attachment

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3203, Mountain Queen No. 5 Claim

(T.N.T. Lease)

Humboldt County, Nevada

(Tungsten)

Harold Stager, Geologist
Ron Willden, Geologist
U. S. Geological Survey

Frank J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

March 10, 1954

Reviewed by
DMEA OPERATING COMMITTEE
3-26-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3203 (Tungsten)

Name and address of applicant: Kenneth J. Neilson
P. O. Box 323
Battle Mountain, Nev.

Lyman Thomas
P. O. Box 92
Battle Mountain, Nev.

Milton V. Taylor
P. O. Box 235
Battle Mountain, Nev.

Robert L. Taylor
P. O. Box 323
Battle Mountain, Nev.

Name and location of property: Mountain Queen No. 5 Claim
(T. N. T. Lease)
Humboldt County, Nevada

SUMMARY

Pursuant to an "Application for Aid in an Exploration Project" an examination of the Mountain Queen No. 5 claim was made by two geologists of the Geological Survey and an engineer of the Bureau of Mines.

The property is about a mile west of the Getchell mine and mill in Humboldt County, Nev.

The Mountain Queen No. 5 tungsten deposit is on a contact between granodiorite and argillaceous hornfels. Garnet-tactite has formed locally wherever calcareous lenses are in contact with the granite but the bodies are small, discontinuous, and extend only a short distance from the con-

tact. Analyses of three samples taken from the scheelite-bearing tactite indicate the material is not of ore grade.

The applicant's proposed exploration program consists of the following:

Stage I: Building access road and stripping overburden off an area 100 feet wide and 400 feet long so as to clearly expose the formations.

Stage II: At points of best showings uncovered in Stage I, drive 3 open cuts 7 feet wide, 10 feet deep and 50 feet long at points decided upon by operators and DMEA engineers and geologists.

Stage III: In the event commercial showings are discovered in Stage II, 1000 feet of diamond drilling.

The applicant estimates the proposed exploration program will cost $21,648.

CONCLUSIONS

The applicant's proposal to scrape an area 100 feet by 400 feet to expose the contact is not justified. The slope wash covers the contact between the granodiorite and the metamorphic rocks to a depth of one to two feet and a few trenches, 2 feet wide, 2 or 3 feet deep and approximately 25 feet long should suffice to prove or disprove the continuity of the scheelite-bearing tactite along the contact. Unless a more-or-less continuous zone of tactite or favorable host rock is developed along the outcrop, a diamond drilling program to prove continuity at depth would be

difficult to plan or justify.

In view of the small size and erratic distribution of the scheelite-bearing tactite lenses and the absence of a geological host rock, it is the opinion of the examiners that Government participation in an exploration program for the Mountain Queen No. 5 claim is unwarranted.

RECOMMENDATIONS

It is recommended by the examiners that the exploration loan request be denied.

TIME SPENT ON PROPERTY

The examiners consisting of Harold Stager and Ron Willden of the U. S. Geological Survey and Frank J. Wiebelt of the U. S. Bureau of Mines spent the evening of February 9 and the morning of February 10, 1954 on the property. They were accompanied during the examination by Lyman Thomas, Robert L. Taylor and Ray Jepperson of the mining company.

NAME AND LOCATION OF PROPERTY

The property is known as the Mountain Queen No. 5 claim and is situated in sec. 32, T. 39 N., R. 42 E. in the Potosi Mining District, Humboldt County, Nev. The property is somewhat less than one mile west of the Getchell Mine and mill. From the latter property it is accessible by half a mile of dirt road and about one quarter mile of trail. The nearest town is Golconda, 28 miles distant from the mine. Winnemucca, Nevada is 44 miles distant from the property.

ACCESSIBILITY

The portion of the highway to the property up to the Getchell mill is paved with the exception of the last 10.9 miles which is an improved graveled road and is accessible throughout the year. The half mile of dirt road from the Getchell mill towards the property is accessible at times during the winter season by four wheel drive cars only.

COMPETENCY OF APPLICANT

The partnership, who are applying for the DMEA exploration loan, are successfully operating a property in the near vicinity of the Mountain Queen No. 5 claim and appear capable of carrying out an exploration program.

APPLICANTS PROPERTY RIGHTS

The property is owned by the partnership and consists of one unpatented claim, the Mountain Queen No. 5 claim. The record of location notice is recorded in Book A4, page 312, Winnemucca, Humboldt County, Nev., according to the applicants application.

DESCRIPTION OF PROPERTY

The property has no surface or underground facilities. The only work done on the property consists of a shaft 5 feet deep and a small amount of stripping.

The examiners took three samples from the property. The data on these samples follow:

Sample No.	%, WO_3	Description
531	0.18	South face of 5'x5'x5' shaft (waist high)
532	0.18	3 feet wide - 100 feet. S. 75° E. from sample 531
533	0.34	Two - 1-foot pods of ore.

The location of the above samples are shown on the sketch map of the plan of the prospect on the Mountain Queen No. 5 claim which accompanies this report (see fig. 2).

GEOLOGY

The Mountain Queen No. 5 claim is on a contact between granodiorite and argillaceous hornfels at the north end of the Osgood Range. The granodiorite is the principal intrusive rock in the area and is part of the stock that forms the core of the range. It is equigranular, medium coarse-grained, light colored rock containing plagioclase, orthoclase, quartz, biotite, and hornblende. The argillaceous hornfels is a blue-gray to brownish, fine grained, well indurated, poorly bedded rock with locally thin carbonate-rich lenses. The bedding in the hornfels strikes N. 15° E., dips 65° E., and is truncated by the granodiorite. Several layers of crystalline limestone occur within a half mile of the area, but none were observed within the limits of the claim. A "limestone bed" described by the applicants as occurring on the claim, on examination proved to be an aplite dike. Garnet-tactite has formed locally wherever calcareous lenses are in contact with the granodiorite but the bodies are small, discontinuous, and extend only a short distance from the contact.

The tungsten mineral scheelite was observed at three places on

the claim (fig. 2). A small pit, near the center of the claim, exposes a 4-foot pod of scheelite-bearing tactite next to the granodiorite that assayed 0.18 percent WO_3. A bulldozer cut in the slope wash, 100 feet east of the pit, exposes a 3-foot pod of scheelite-bearing tactite next to the granodiorite contact that assayed 0.18 percent WO_3, and two isolated 1-foot pods that assayed 0.34 percent WO_3. These assays are not of ore grade nor do they represent a continuous minable layer of material. The area along the contact between the two exposures and the slope below was traversed carefully with an ultraviolet light but failed to disclose any scheelite-bearing material in the slope wash. Considering that the beds strike into the granodiorite contact and that the carbonate-rich lenses are thin and discontinuous, the scheelite-bearing tactite pods probably do not continue downward more than a few feet below the outcrop, and do not form a continuous zone along the contact. In the absence of limestone beds of appreciable thickness and continuity in contact with the granodiorite on the claim, the probability of developing minable quantities of ore is poor.

PAST OPERATION

The mine is in the prospect stage and has no production record.

MANPOWER, SUPPLIES, ETC.

Manpower, materials, supplies and equipment are available from Winnemucca, Nev., 44 miles distant, Battle Mountain, Nev., 65 miles distant and Getchell about one mile distant.

Water and power are available from Getchell, Nev.

APPLICANTS PROPOSAL

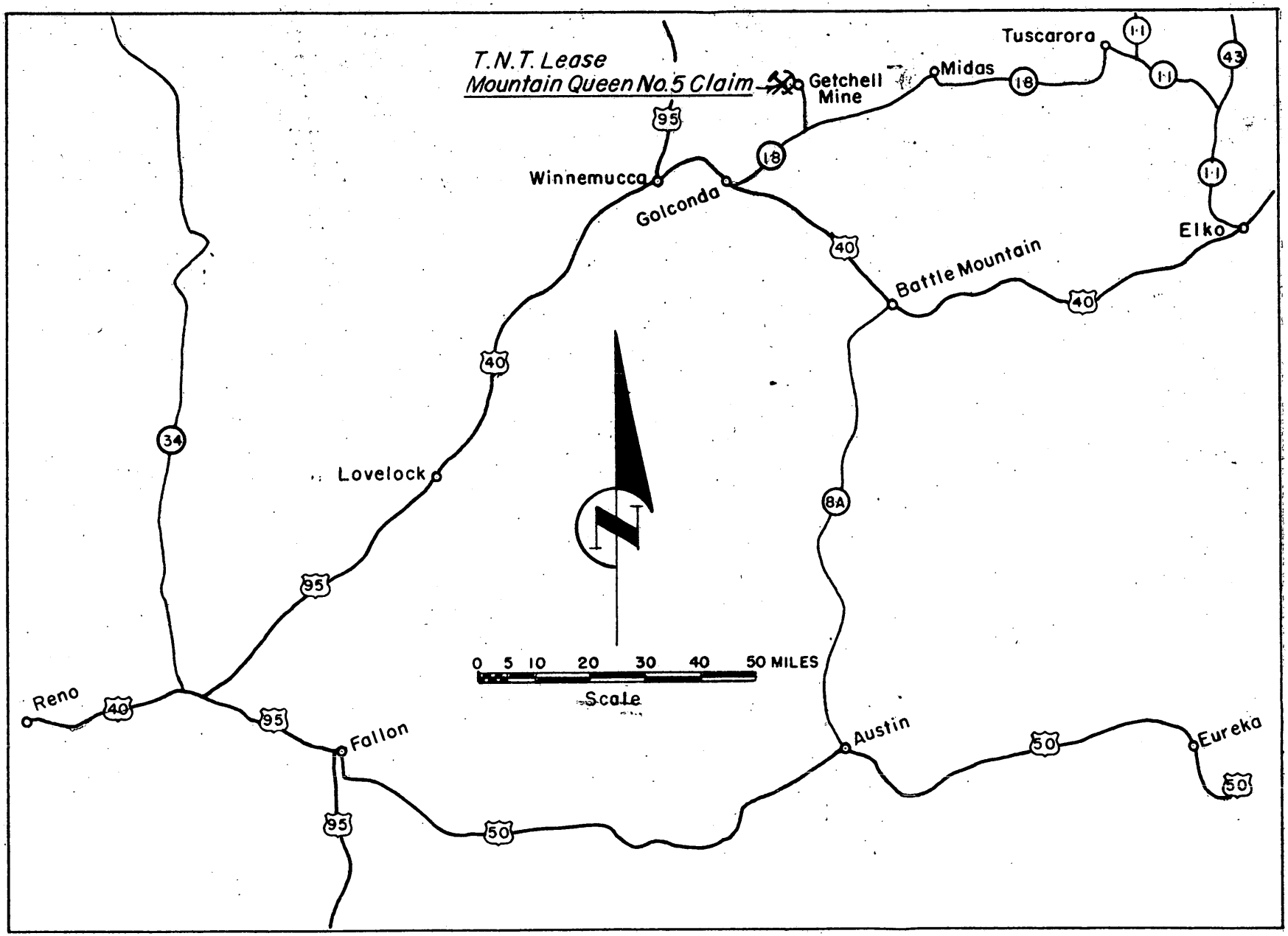
The applicants proposal follows:

Stage I: Building access road to the deposit and stripping overburden off an area 100 feet wide and 400 feet long so as to clearly expose the formations.

Stage II: At points of best showings uncovered in Stage I drive three open cuts 7 feet wide, 10 feet deep and 50 feet long.

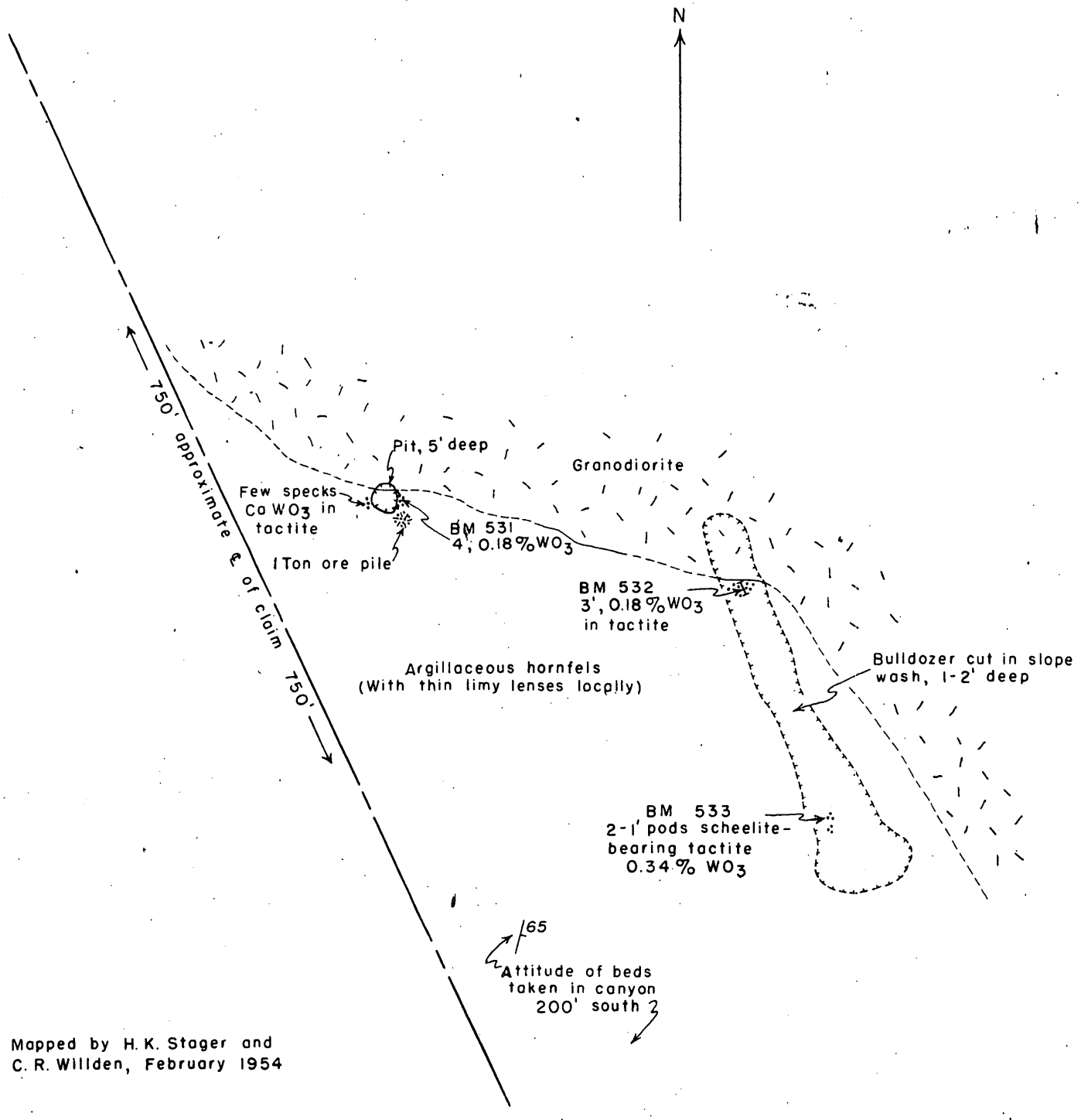
Stage III: In the event commercial showings are discovered in Stage II, 1000 feet of diamond drilling.

Slope wash covers the contact between the granodiorite and the metamorphic rocks to a depth of one to two feet but does not hide the type of rock nor the configuration of the contact except for minor variations. The plan to scrape an area (see Stage I of applicants proposal) 100 feet by 400 feet in order to expose the contact is not justified. A few trenches, 2 feet wide, 2 or 3 feet deep and 25 feet more or less long should suffice to prove or disprove the continuity of the scheelite-bearing tactite along the contact. Unless a more or less continuous zone of tactite or favorable host rock is developed along the outcrop, a diamond drilling program to prove continuity at depth would be difficult to plan or justify.



Location map, Mountain Queen No.5 claim, T. N.T. lease, Humboldt County, Nevada.

Figure 1.



Mapped by H. K. Stager and C. R. Willden, February 1954

SKETCH MAP OF PROSPECT ON MOUNTAIN QUEEN NO. 5 CLAIM
OSGOOD RANGE, HUMBOLDT COUNTY, NEVADA

40 0 40 80 FEET

Figure 2.

FILE COPY
SURNAME:

Martin
Geehan
Jarvis
Hodges
Hopkins

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

NOV 27 1953

Mr. Milton V. Taylor, Manager
T. N. T. Lease
P. O. Box 323
Battle Mountain, Nevada

Re: Docket No. DMEA 3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

Dear Mr. Taylor:

Your application for assistance in exploring a tungsten occurrence on your Mountain Queen No. 5 claim in Humboldt County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division, 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 further consideration and a field examination of the property.

At the time an examination is made, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf / fwd

Administrator

CC: Docket
Field Team, Reg. 3
Code 400
Adm. Read. File
R. W. Geehan, USBM
T. P. Thayer, USGS

JHopkins/ls 11/18/53

11-27-53

400

FILE COPY
SURNAME:

Hopkins
Martin
Gehan
Fayu
Johnson

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

NOV 27 1953

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

Re: Docket No. DMEA 3203 - Tungsten
T. N. T. Lease
Mountain Queen No. 5 claim
Humboldt County, Nevada

Dear Mr. Miller:

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

This referral is made without the customary memoranda attachments because information on this particular tungsten occurrence appears to be lacking in the Washington offices of the Geological Survey and the Bureau of Mines.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (2/B)

APPROVED:

J. H. Hedges (6/B)
Member, Bureau of Mines

D. M. Larrabee (2/B)
Member, Geological Survey

cc: Docket
FT, Reg. 3
Code 400
Oper. Comm.
Adm. Read. File
R. W. Geehan, USBM
T. P. Thayer, USGS

11-27-53

JHopkins/ls 11/19/53

T. N. T. Lease, a partnership
Post Office Box 323
Battle Mountain, Nevada

November 6, 1953
Subject: DMEA-3203
Re: Exploration Assistance
Mountain Queen #5

Dear Sirs:

The receipt of your application dated October 29, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3203 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-3203 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control and
Statistics Division

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

November 6, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number DMEA-3203

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

DMEA
-3203 T.N.T. Lease, a partnership

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV - 6 1953

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

November 2, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Application Forms MF-103 - Tungsten
Messrs. Robert L. Taylor, Milton V. Taylor, Kenneth J. Neilson, and Lyman Thomas
T. N. T. Lease, a Partnership
P. O. Box 323, Battle Mountain, Nevada

Attached are three sets of MF-103 forms received in our mail today from T. N. T. Lease, a Partnership, making application for a loan totaling $21,648.00. Only one set of maps accompanied the application and it is being sent attached to the first copy. The fourth application has been retained for our records.

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

Attachment

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV - 6 1953

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

November 2, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Application Forms MF-103 - Tungsten
Messrs. Robert L. Taylor, Milton V. Taylor, Kenneth J. Neilson, and Lyman Thomas
T. N. T. Lease, a Partnership
P. O. Box 323, Battle Mountain, Nevada

Attached are three sets of MF-103 forms received in our mail today from T. N. T. Lease, a Partnership, making application for a loan totaling $21,648.00. Only one set of maps accompanied the application and it is being sent attached to the first copy. The fourth application has been retained for our records.

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

Attachment

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 6 1953

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. DMEA-3203
Metal or Mineral
Date Received 11-6-53
Estimated Cost
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: Robert L. Taylor, Box 323, Battle Mtn., Nev.
T.N.T. LEASE, a partnership — Milton V. Taylor, " 235, " " "
P.O. BOX 323 — Kenneth J. Neilson " 323, " " "
BATTLE MOUNTAIN, NEV. — Lyman Thomas " 92 " " "

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached paper and map figure 4.

(*b*) State any mine name by which the property is known. Mountain Queen # 5

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owners
Book A 4, page 312, recorder's office, Humboldt County, Winnemucca, Nevada

(*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 none

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

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. None.

(*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. See attached paper.

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

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

16—66551-1

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. See attached paper.

(*c*) The work will start within 10 days and be completed within 6 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. See attached paper.

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.). See attached paper.

(*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. See attached paper.

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

(*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. See attached paper

(*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. See attached paper.

(*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. See attached paper.

(*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. See attached paper.

(*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. See attached paper.

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 29, 1953

T.N.T. LEASE, P.O. BOX323
BATTLE MOUNTAIN, NEV.

By Kenneth J. Neilson
Lyman Thomas
Milton V. Taylor

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

TNT LEASE
P.O. BOX 323
BATTLE MOUNTAIN, NEV.

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
NOV 16 1953

3. Applicants property rights
(a) the location monument of the Mountain Queen Claim #5 is approximately 3500 feet N 48 E of the east one-half marker of Section 31, T 29 N, R 42 E and is situated in the Potosi mining district Humboldt County, State of Nevada, approximately one mile west of the Getchell Mine and Mill adjoining the East side line of the Mountain Queen No. 4. The size of the claim is 600 ft. wide by 1500 ft. long. The claim is known as the Mountain Queen #5 and is recorded in Winnemucca, Nevada; Humboldt County, Book A 4, page 312.

4. Physical description
(a) The exploration of this land to date consists of a minor amount of stripping which has exposed the metamorphosed lime and a small amount of tactite approximately 40 feet wide bearing some tungsten. The granite contact with the lime beds has been exposed by a prospect hole approximately 5 feet deep showing some tungsten of a grade of 1%.

There are no production facilities at present but the applicants have all necessary equipment for immediate production including compressor machines, drills, D-4 Combination Cat Loader and Bulldozer and blasting facilities. Good contract trucking facilities are available through Wells Cargo at Getchell. Milling facilities are available at Getchell Custom Mill located approximately 1 mile below the property.

The land is accessible for inspection by a short walk from a good graded road connected directly to the Getchell Custom Mill. Equipment can be moved in immediately over a cat road built by the applicants.

(b) There are no past or current production or ore reserves on this property but refer to Geological Features Fig III for past and current production of area. Note that tactite is present along about 60 to 70% of the total length of the contact. Refer to map, fig. 4, Sec. 32, blocked out in red for location of proposed exploration program along the contact.

(c) Refer fig. III Geologic features of the property and to fig. I, plate I for location of proposed program, blocked out in redalong the contact, Also fig. 4 sketch of Geology on Claim, showing area to be stripped and drilled.

The mineralization is a showing of tactite formed by the alteration of limestone adjacent to the Granodiorite. Numerous lime beds and altered lime is showing projecting into the Granodiorite and some tungsten hadooccurred. The type of deposit would probably be a large body or bed and possible a deep vein and can only be determined by drilling.

The reasons we wish to explore are that with the minor amount of work we have done, we have located the Granodiorite contact with the limeshowing some tactite bearing Scheelite and favorable lime beds. We feel that with further stripping and drilling a large deposit of tungsten can be discovered.

(d) The project is accessible by approximately 1 mile of good graded road from Getchell Mine and Custom Mill and ½ mile of cat road over which material and supplies can be brought. Access roads are excellent. ½ mile of road will have to be built to the project which will be included in the application. Shipping point is Getchell Custom Mill. Residence facilities are already available and in use at Getchell Mine. Supply points are Winnemucca, Nev., 40 miles; Battle Mountain, Nev., 65 miles.

(e) Man-power is already available and no problem, material, supplies, water, equipment etc. are all available at Getchel, Winnemucca or Battle Mountain.

5. The Exploration project
(a) Tungsten

(b) Refer sketch map Fig. 4. The proposed exploration program will be in three stages.

Stage I -- building access road
stripping overburden off of an area 100 feet wide and 400 feet long so as to clearly expose the formations.

Stage II : At points of best showings uncovered in Stage I. Drive 3 open cuts 7 feet wide, 10 feet deep and 50 feet long at points decided upon by Operators, D.M.E.A. Engineers, and Geologists.

Stage III.: In event commercial showings discovered in Stage II. 1000 feet of Diamond drilling. Location of and depth of holes to be decided on by Operators D.M.E.A. Engineers and Geologists.

(c) Will start immediately and completed in 6 months.

(d) Milton V. Taylorhhas been in the mining business for the past 10 years and is presently manager and supervisor of the T.N.T. Lease which has been for the past year and is presently one of the largest custom shippers of tungsten ores to the Getchel Mill. Past production records are available from Getchel Mines Co. Reno, Nevada. The T.N.T. Lease is presently operating the Mountain King Mine and Railroad Lease directly above and along the same contact as this proposed exploration project.

Lymon Thomas has been associated with the T.N.T. lease for the past year, and has been in mining the past fifteen years. Having mined tungsten ore for Getchel Mines, previous to becoming associated with the T.N.T. Lease.

Kenneth Nielson has been associated with the T.N.T. Lease for the past year.

6. Estimate of costs:

Stage I (a) 10 days

Building access road 5 days	
D'8 cat rental $16.00 per, hr.	$640.00
Stripping 5 days	
D8 cat rental @16.00 per hr.	640.00

Stage II. Open cut work 45 days.

(a) Labor	
1 cat operator @$2.00 per hr.	
33 days @ $16.00 per day	528.00
6 days overtime @ $24.00 per day	144.00
1 driller @ $2.00 per hr.	
33 days @ $16.00 per day	528.00
6 days overtime @$24.00 perday	144.00
1 helper @$1.87½ per hr.	
33 days @$15.00 per day	495.00
6 days overtime @$22.50	135.00
1 supervisor @ $500.00 per month 45 days.	750.00
Total Labor	4004.00

T.N.T. Lease
P.O. Box 323
Battle Mountain, Nevada

Cont, Stage II Open cut work	
Total Labor	$4004.00
Insurance	175.00
Sos. Sec. and Unemp.	84.00
Total	4263.00
Stage II	
Operating Materials and supplies	
Traxcavator Rental @100.00 per day for 45 days.	$4500.00
Air compressor rental @$6.00per day for 45 days	270.00
Drilling Equipment rental @$2.00 per day for 45 days	90.00
½ ton truck rental for transportation and hauling supplies @$150.00per mo. for 45 days	225.00
Total materials and supplies	5085.00
(f) Building combination compressor house, Storage room and Change room.	1500.00
(g) Accounting and Bookeeping	300.00
(h) contingies unforseen misc. exp.	500.00
	2300.00
Stage III. 1000 feet of Diamond drilling Independent contract @ App $10.00 per feet.	$10,000.00
Total Loan Application	$21,648.00

Scheelite occurs in the Northern half of the Osgood Range in the tactite bodies formed by the metamorphism of limestone along the contacts of an intrusive granodiorite stock.

The past mined ore has contained an average of between o.5 and o.6% WO3, the grade ranging from o.34 to over o.8%. It was exploitable because of relatively low mining costs and favorable milling arrangements.

The Osgood Range is in the Eastern Humboldt County, Nevada, Figure II, Northeast of the town of Golconda. Adam Peak, in the approximate center of the Range, rises to an elevation of 8,400 feet almost 3,500 feet above the desert floor on either side. The Range is small and rugged with steep hillsides but in many parts of the range exposures of bedrock are uncommon, and the surface extent of most of the ore bodies excepting the producing mines has been determined only by trenching.

The Tungsten occurences are in the Potosi mining district, and all are located within 10 miles of the Getchell Mine and Mill, which is treating custom ore at this time.

GEOLOGY

The North-Central part of the Osgood range consists of a stock of granodiorite which has invaded sedimentary rocks. (Plate I, Fig. 1). The stock is sixmiles long in North-South direction and less than two miles wide, narrowing to less than 1000 feet near the center. The granodiorite is a light-colored even-grained rock, composed chiefly of feldspar, quartz, biotite, and hornblende. Dikes of varied composition are numerous within the intrusive mass, as well as in the sedimentary rocks about the margin of the granodiorite stock. The dikes are composed of andesite porphyry, granodiorite, apalite and a minor amount of pegmatite. The andesite porphyry dikes are probably related to tertiary volcanic rocks of the region, and possibly to the gold-arsenic mineralization. The contact of the stack with the surrounding sedimentary rocks dips generally

from 40 to 60 degrees East on the Eastern side of the stack; where it is exposed on the Western side, it is nearly vertical.

The sedimentary rocks are interbedded argillite and limestone. The argillite, commonly called shale or hornfels in the district varies widely in character, but most of it is dark grey or brown in color, platy to blocky and fine-grained. The limestone, less abundant than the argillite, occurs as layers a few inches to several hundred feet thick in the argillite. Most of the limestone is thin to medium bedded. The sediments have been extensively folded and faulted.

Immediately adjacent to the main intrusive mass, the sedimentary rocks have been markedly metamorphic. The argillite has been altered to hornfels and schist. The limestone has been altered in places to tactite, composed chiefly of garnet, in other places to a white Wollastanite rock, or recrystallized to a coarse marble adjacent to the tactite or to the igneous contact where the tactite is absent.

The tungsten mineralization is almost entirely restricted to tactite formed by the alteration of limestone adjacent to the granodiorite. Tactite is present along about 60 to 70 per cent of the total length of the contact between the limestone layers in the sediments and granodiorite (Plate I, Fig. 1). Larger tactite masses appear to have been localized by irregularities of the contact, particularly by projections of limestone into granodiorite. The tactite zone rarely extends for distances of more than 50 feet from the granodiorite contact, although exceptionally it may extend as far as 100 feet, and the main granodiorite stack forms one wall of each of the ore bodies developed by current mining operations.

ORE DEPOSITS

Gold and Tungsten are the only economically important metals in the district, although minerals containing zinc, copper, silver, molybdenum, lead, and bismuth also occur in the tactite bodies and in small veins or replacement bodies in the metamorphosed sedimentary rocks. The gold ore and the tungsten ore occur in separate

deposits resulting from unrelated types and periods of mineralization. However, the presence of the large-scale gold mining operation and mill of the Getchell Mines Co. which has been converted to treat tungsten ores has been an iportant factor in the rapid development of the tungsten deposits in the district.

Scheelite (calcium tungstate) is the only tungsten mineral which has been recognized in the district, although it has been reported that scheelite from the Richmond Mine (Plate I, Fig. 1) which adjoins this property on the southwest contains lead tungstate. Most of the scheelite has a moderate content of powellite, or calcium molybdate, in chemical combination with the calcium tungstate.

The past mined ore of the district contained an average tungsten content of 0.5 to 0.6 per cent of WO_3 and ranged in grade from 0.34 to over 0.8 per cent.

One claim along the Northern margin of the intrusive (PlateI, Fig. 1), is held by R. L. and June Taylor, Milton V. and Wilma K. Taylor, K. J. and Muriel Neilsom and is known as the Mountain King claim. It is shown on the map, Plate I, Fig. 1.

The Mountain King and railroad lease has been operated by the T.N.T. Lease for the past year. Production has been very impressive.Records are available from the Getchell Mines. Previous to the T.N.T. Lease Operation, the Mountain King was leased and operated by Stewart L. Rawlings of San Francisco with very good production.

The Mountain Queen group of claims (Plate I, Fig. 1) are owned by R. L. Taylor, Milton V. Taylor, Kenneth J. Neilson and Lyman Thomas and is the location of the proposed exploration project. The owners have done a minor amount of stripping and development work and have exposed the granodiorite contact, showing some tactite bearing scheelite.

The limestone at the location of the proposed exploration project appears to have fingered or projected into the Granodiorite

with a possibility of forming a large body of tungsten bearing tactite. The proposed exploration project of stripping, open cut and drilling program should expose a large body of tungsten ore.

TNT LEASE
BATTLE MOUNTAIN, NEV.
Box 323.
Battle Mountain
Nevada,

Scheelite occurs in the Northern half of the Osgood Range in the tactite bodies formed by the metamorphism of limestone along the contacts of an intrusive granodiorite stock.

The past mined ore has contained an average of between 0.5 and 0.6% WO3, the grade ranging from 0.34 to over 0.8%. It was exploitable because of relatively low mining costs and favorable milling arrangements.

The Osgood Range is in the Eastern Humboldt County, Nevada, Figure II, Northeast of the town of Golconda. Adam Peak, in the approximate center of the Range, rises to an elevation of 8,400 feet almost 3,500 feet above the desert floor on either side. The Range is small and rugged with steep hillsides but in many parts of the range exposures of bedrock are uncommon, and the surface extent of most of the ore bodies excepting the producing mines has been determined only by trenching.

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OFFICIAL BUSINESS

AVOID

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Fig. II

T. N. t. Lease
Box. 323.
Battle Mountain
Nevada.

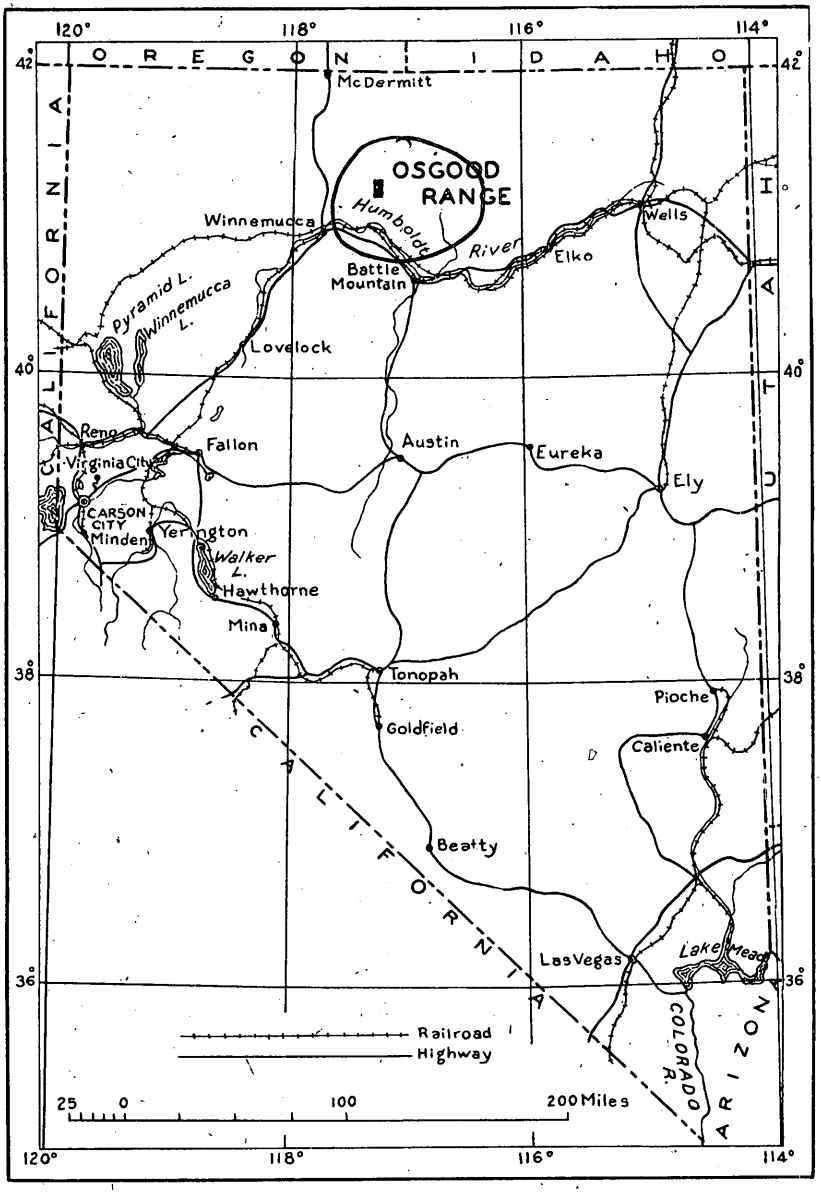


FIGURE 1. INDEX MAP OF NEVADA SHOWING LOCATION OF THE OSGOOD RANGE

LIST OF MAPS

FIGURE 1. Index map of Nevada, showing location of the Osgood range.....Page 10

IN POCKET

PLATE 1. Reconnaissance geologic map of the Osgood range intrusive.
PLATE 2. Geologic map of the Granite Creek tungsten deposit.
PLATE 3. Detailed geologic map and sections of the Granite Creek mine area.
PLATE 4. Underground workings of the Granite Creek mine.
PLATE 5. Geologic map of the Kirby tungsten deposit.
PLATE 6. Detailed geologic map and sections of the Kirby mine area.
PLATE 7. Geologic map and sections of the Valley View mine (Saunders property) and Pacific prospect.
PLATE 8. Detailed geologic map and sections of the Richmond mine area.
PLATE 9. Underground workings and surface samples—Richmond mine.
PLATE 10. Geologic map and sections of the Riley mine.
PLATE 11. Sketch map of the Markus claims.

SAN FRANCISCO, CALIF.
OCT 2
7 PM
1953
RINCON ANNEX

SAN FRANCISCO, CALIF.
OCT 2
7 PM
1953
RINCON ANNEX

Note:
Postmark - Oct. 2, evidently a mistake as date on enclosed letter is Nov. 2, Rec'd.,

Department of the Interior
Bureau Mineral Administration
RECEIVED
NOV 6 1953

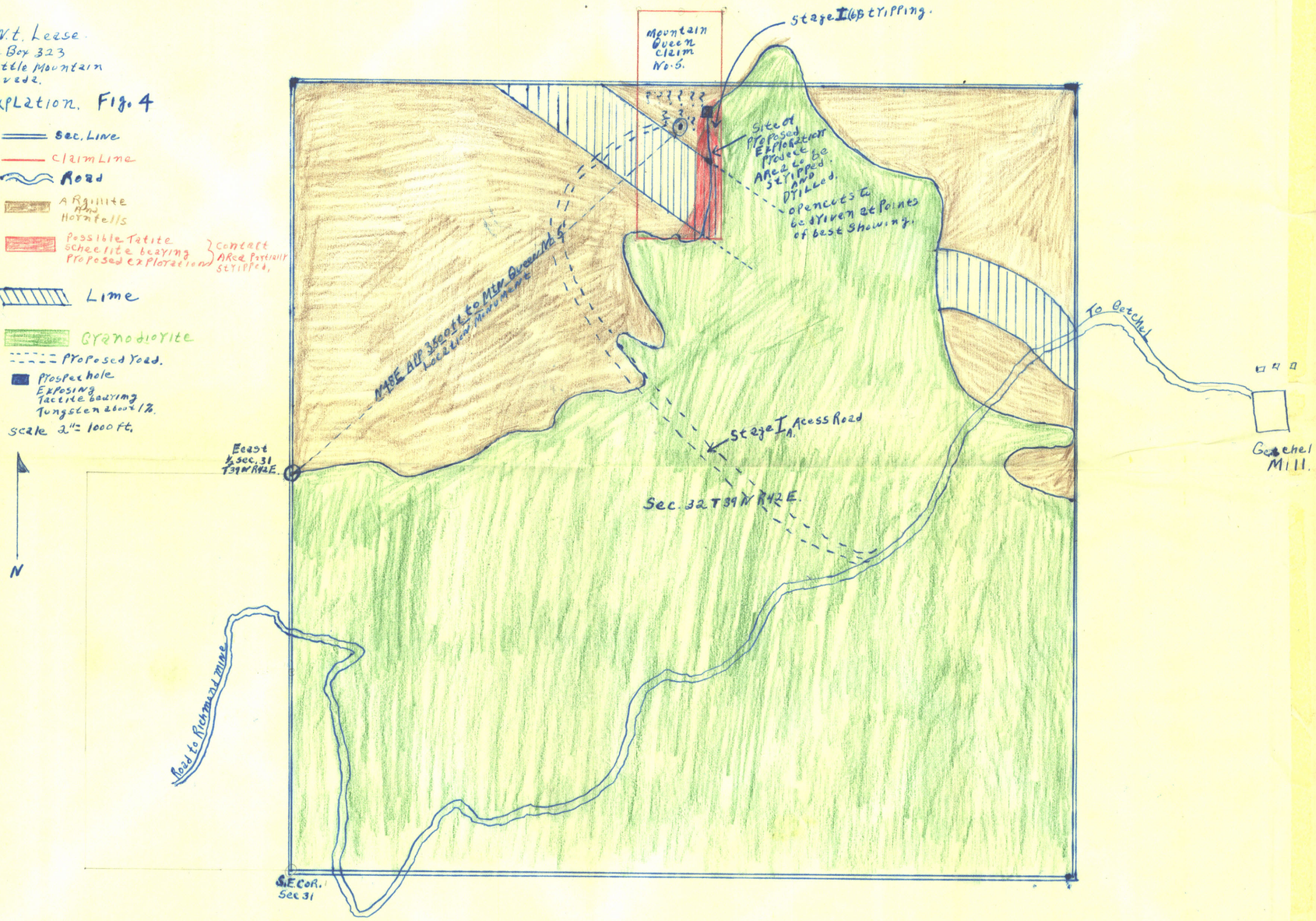
R. Gray

Mineral Exploration Administration
Building
on 25, D. C.

T.N.T. Lease
PO Box 323
Battle Mountain
Nevada.

Explation. Fig. 4

Sec. Line
Claim Line
Road
Argillite and Hornfells
Possible Tatite Scheelite bearing Proposed exploration } contact Area partially stripped.
Lime
Granodiorite
Proposed Road.
Prospect hole Exposing Tactite bearing Tungsten about 1%.
Scale 2" = 1000 ft.

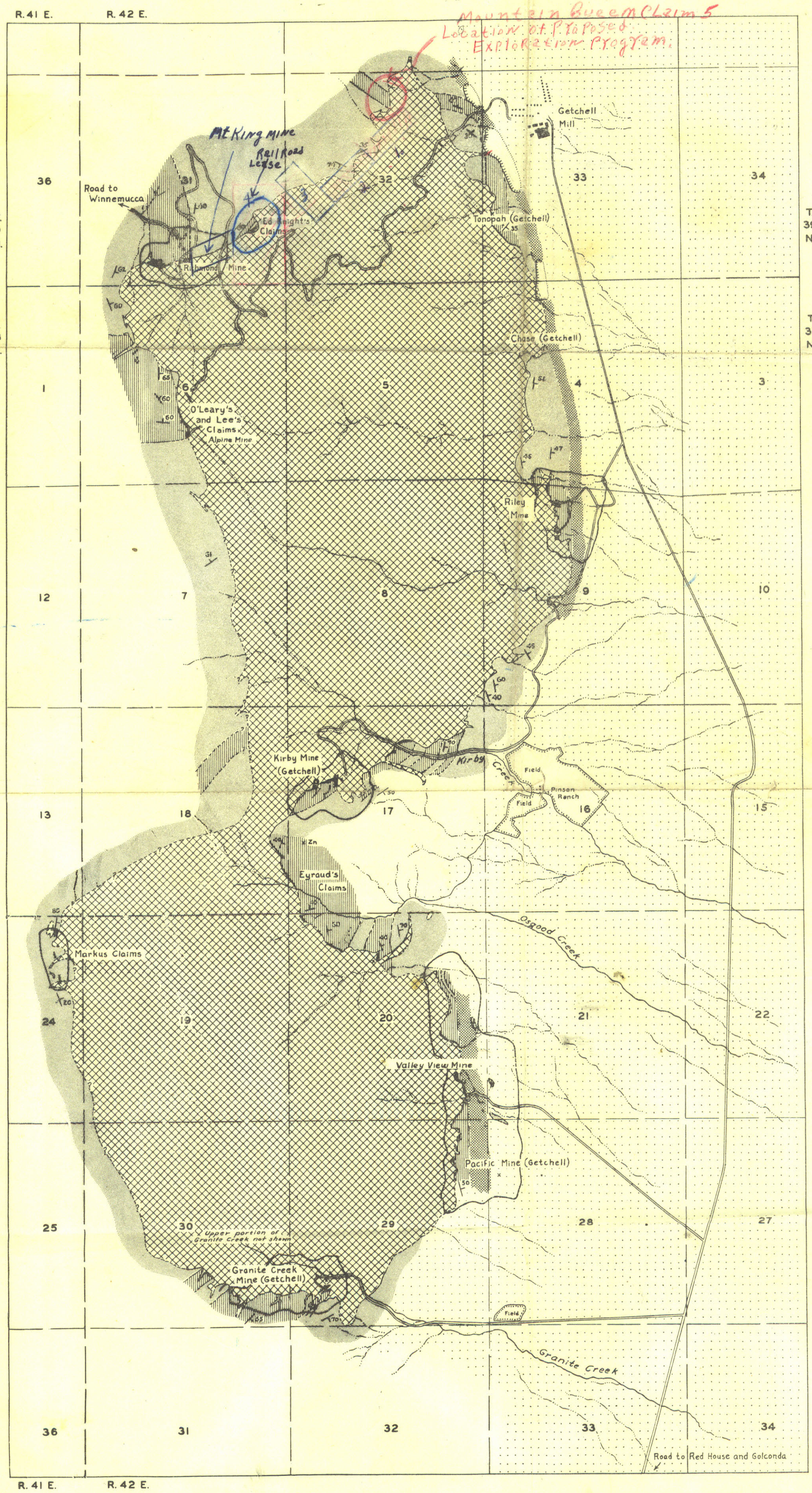


3. Applicants Property Rights.

The Location monument of the Mountain Queen claim No 5. is. Approximately 3500 ft. N48°E of the East ½ marker of Sec 31 T39N R. 42E. and is situated in the Potosi mining district, Humboldt County, State of Nevada, Approximately 1 mile west of the Getchel mine & mill. Adjoining the East side line of the Mountain Queen claim #4. Claim is 1500 Linear feet Along the course of the mineral bearing Ledge, Lode, or vein. Extending 750 feet from the Location monument in a Southerly direction, and 750 ft in a Northerly direction, together with 300 feet on Each side of the Center of the lodge for the entire Length of the Claim.

Located Jan. 23, 1951.
Dated Apr. 14, 1951
Book A4 Page 312
Recorded At Request of R.L. Taylor
Apr. 4, 1951 At 51 min. past 10 o'clock AM.
File No 84790
J.H. Berman County Recorder.
At. Winnemucca Nevada.
Humboldt County.

T.N.T. Lease.
Box 323
Battle Mountain
Nevada.



EXPLANATION

ALLUVIUM

TACTITE, CHIEFLY SCHEELITE-BEARING

GRANODIORITE

LIMESTONE

HORNFELS AND ARGILLITE

FAULT ZONE

STRIKE AND DIP OF BEDS

OPEN PITS OF GETCHELL MINE (GOLD AND ARSENIC)

ADIT, SHAFT, OR PIT

AREAS MAPPED IN DETAIL

AREAS IN RED. IS T.N.T. CLAIMS
#1 CLAIM IS Site of PROPOSED EXPLORATION PROJECT.
#4 IS RAILROAD Leased BY T.N.T
PRESENTLY IN PRODUCTION
Outlined in Red.

SCALE

0 1000' 2000' 3000' 4000'

BASE IN PART FROM AERIAL PHOTOGRAPHS MADE AVAILABLE BY GETCHELL MINE, INC.

GEOLOGY BY S. E. CLABAUGH AND S. W. HOBBS, APRIL, 1943

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECONNAISSANCE GEOLOGIC MAP OF THE OSGOOD RANGE INTRUSIVE

POTOSI MINING DISTRICT, HUMBOLDT COUNTY, NEVADA