DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. DMEA-3201

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as
Exploration Assistance

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

1cy to USBM, USGS, ~~DMEA, REGION~~

Routing Slip

To:	400	Date	11-5553
To:	Oper Com	Date	11-27-53
To:	400	Date	11/30/53
To:	Oper Com	Date	3-5-54
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INT.-DUP. SEC., WASH., D.C. 98868

400

DOCKET
SURNAME
Rutledge
Martin
H Johnson

APR 2 8 1954

Mr. Ben H. Clair
Nelson, Nelson and Clair
Genoa, California
Via Dyer, Nevada

Re: Docket No. DMEA 3201 - Tungsten
4 Aces mine
Esmeralda County, Nevada

Dear Mr. Clair:

This will acknowledge your letter of April 19, 1954, requesting a review of the above-docketed application for exploration assistance and reconsideration as an exploration project for lead.

The subject application for exploration assistance was denied March 8, 1954, after our investigation showed that we could not expect to find tungsten, the commodity for which exploration assistance was requested, in significant quantities that would warrant Government participation in an exploration project. This conclusion was also reached for the molybdenum minerals - powellite and molybdenite. Your application was not considered for lead as this last commodity was not on the list of strategic minerals during the time that the referenced application was being processed.

However as of March 23, 1953, lead was returned to the list of commodities eligible for exploration assistance. We are, therefore, enclosing application forms, MF-103, for your use in making an application for exploration assistance for lead. In submitting a revised application, please refer to the referenced docket and furnish us with the following data:

1. 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.

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

Sincerely yours,
C. O. Mittenderf
for
Administrator

FARutledge:foc
4-27-54
cc to: Docket
Code 400
Admr. Reading File
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

RCS.

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 4/22/54

REFERRED TO:
1. ~~[illegible]~~
2.
3. Code 700
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: This should be sent to Ferroalloys for reply

Check (X) before the items needing attention.

[illegible] *Initials of sender.*

GPO 16—63815-1

Mr. Ellis:

I questioned why this was sent here when it was denied on a tungsten application by Iron and Ferro Alloys Division on March 8, 1954.

gla

Should have come to Code 400
WSM

4 Acres Group
Docket No. DMEA 3201 - Tungsten

Sylvania Mine
Dyer Nev.
Apr 19 1954.

Mr. C.O. Mittendorf
Dept. Interior
Washington D.C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 21 1954

WSM

Dear Mr. Mittendorf

After several weeks of consideration I am wondering just what it takes to get any help from your bureau.

I have ore which showed on the surface 40 ft wide in places and I have since the examination driven a tunnel 40 ft lower and the values are better and more uniform and also it contains sufficient Molybdenum Sulphide to pay to save, also I am recovering in a rather crude table setup values up to $20 per ton and not less than $15.00 per ton and the ore I am mining now is better than 15 ft wide and I do not believe I am saving 1/2 of the values.

If however we could develop sufficient

ore reserve we would plan to improve our recovery.

I do not know what other information you have but I do know that one young man from the Bureau of mines been in here several years past and stood in the bottom of the canyon & wrote his report from there never going on the mine itself.

I do not mean to be arbitrary but I do not believe that the opinion of one or two engineers should be the final word that nails us on the cross when all around the world we see and being given to merely prospect & we are milling on fairly good ore & cannot get any help especially as I have not been informed how or why they arrived at their opinion.

Without further comment from me I respectfully request that the subsequent work I have done be considered and if lead is again on the list the same work would be done on the lead veins.

Respectfully yours Lou Clair

Hon. H. Clair
Dyer
Nevada.

VIA AIR MAIL

BISHOP, CALIF.
APR 19
1954
1-PM

VIA AIR MAIL

Mr. C. O. Mittendorf
Dept of Interior
D.M.E.A.
Washington 25
D.C.

Air Mail.

400

DOCKET
SURNAME

Hopkins
Martin
Gehan
Hedges
Guild
Selfridge
Yelverton

MAR 8 1954

Mr. Dan H. Clair
Nelson, Nelson and Clair
Oceanside, California
Via Dyer, Nevada

Re: Docket No. DMEA 3202 - Tungsten
4 Aces Mine
Esmeralda County, Nevada

Dear Mr. Clair:

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 the referenced property to our attention.

Sincerely yours,

G. O. Mitchell

(for)

Administrator

JHopkins/fcc
3-4-54
cc: Docket
Code 400
FT. Reg. 3
Adm. Reading File
Oper. Comm.
R. W. Gehan, USBM
T. P. Thayer, DSGS

R.C.G.
3-8-54

400
DOCKET
SURNAME
Martin
Guhan
Guild
Selfridge

MAR 8 1954

MEMORANDUM

To: Administrator

From: Iron and Ferro-Alloys Division

Subject: Denial of exploration project in the amount of $15,000.00
Docket No. DMEA 3201 - Tungsten
Messrs. A. C. Nelson, V. Nelson and Don H. Clair
4 Aces Mine
Esmeralda County, Nevada

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

1. The applicants requested exploration assistance in the sum of $15,000.00 to explore for tungsten in the 4 Aces Mine, Esmeralda County, Nevada.

2. The 4 Aces Mine is primarily a lead-zinc-silver property, having produced 60 tons of concentrates since 1951 that averaged about 37.2% lead and 33.0 ounces of silver per ton.

3. The 4 Aces Claims are in an area underlain by early Paleozoic limestone that has been intruded by Jurassic granite and later covered by Tertiary (?) volcanics. Along the limestone-granite contact pods of tactite were seen. This tactite is composed almost entirely of garnet with minor amounts of epidote. Traces of scheelite, pyrrhotite and molybdenite are found locally.

4. The underground workings in the mine follow two veins of galena. Only traces of scheelite were seen underground at east end of 55-level. The only scheelite-bearing tactite worth sampling was in the main cut 300 feet west of the inclined shaft. Sixty tons of tactite were mined from this cut in 1951 and yielded almost nine units of WO_3, indicating a recoverable

R.C.B.
3-8-54

grade of 0.15 percent WO_3. Scheelite mined in the main cut appears as a coating of white powder on fracture surfaces in the tactite. Other exposures nearby, but not on applicants' property, show small crystals of scheelite disseminated through the rock.

5. The ore is spotty and low grade; the vertical extent of the tactite does not offer attractive prospects. There are no measured or indicated reserves; inferred reserves could contain enough scheelite to equal the 1951 production record, but it is unlikely that they would exceed that record.

6. The geologist and engineer of the DMEA field team recommended that the application for a DMEA loan be denied because:

   1) Exposures of scheelite bearing rock on the property are scanty.

   2) The evidence in the crosscut suggests that the scheelite is pinching out in depth.

   3) Reserves are lacking.

   4) The grade of the deposit as show by assays and previous production record is low.

7. The Commodity Divisions of the U. S. Geological Survey and Bureau of Mines concur with the recommendation.

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

#Hopkins/foc
3-4-54
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
Mr. Hopkins

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

400

MEMORANDUM

MAR 8 1954

To: Administrator

From: Iron and Ferro-Alloys Division

Subject: Denial of exploration project in the amount of $15,000.00
Docket No. DMEA 3201 - Tungsten
Messrs. A. C. Nelson, V. Nelson and Don H. Clair
4 Aces Mine
Esmeralda County, Nevada

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

1. The applicants requested exploration assistance in the sum of $15,000.00 to explore for tungsten in the 4 Aces Mine, Esmeralda County, Nevada.

2. The 4 Aces Mine is primarily a lead-zinc-silver property, having produced 60 tons of concentrates since 1951 that averaged about 37.2% lead and 33.0 ounces of silver per ton.

3. The 4 Aces Claims are in an area underlain by early Paleozoic limestone that has been intruded by Jurassic granite and later covered by Tertiary (?) volcanics. Along the limestone-granite contact pods of tactite were seen. This tactite is composed almost entirely of garnet with minor amounts of epidote. Traces of scheelite, powellite and molybdenite are found locally.

4. The underground workings in the mine follow two veins of galena. Only traces of scheelite were seen underground at east end of 55-level. The only scheelite-bearing tactite worth sampling was in the main cut 300 feet west of the inclined shaft. Sixty tons of tactite were mined from this cut in 1951 and yielded almost nine units of WO_3, indicating a recoverable

grade of 0.15 percent WO_3. Scheelite mined in the main cut appears as a coating of white powder on fracture surfaces in the tactite. Other exposures nearby, but not on applicants' property, show small crystals of scheelite disseminated through the rock.

5. The ore is spotty and low grade; the vertical extent of the tactite does not offer attractive prospects. There are no measured or indicated reserves; inferred reserves could contain enough scheelite to equal the 1951 production record, but it is unlikely that they would exceed that record.

6. The geologist and engineer of the DMEA field team recommended that the application for a DMEA loan be denied because:

   1) Exposures of scheelite-bearing rock on the property are scanty.

   2) The evidence in the crosscut suggests that the scheelite is pinching out in depth.

   3) Reserves are lacking.

   4) The grade of the deposit as show by assays and previous production record is low.

7. The Commodity Divisions of the U. S. Geological Survey and Bureau of Mines concur with the recommendation.

W S Martin

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

IN REPLY REFER TO:

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

Minerals Administration
RECEIVED
FEB 26 1954

February 26, 1954

WSM

Memorandum

To: W. S. Martin

From: P. W. Guild

Subject: Docket Number DMEA 3201 - Tungsten
Nelson, Nelson & Clair
4 Aces Claims
Esmeralda County, Nevada

The Field Team report on the subject property shows conclusively that the chances of making a significant discovery are slight. I concur in the recommendation of denial.

Philip W. Guild

Orig
~~Unsigned~~

Docket

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 23 1954

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

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

February 17, 1954

WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3201 - Tungsten
Nelson, Nelson & Clair
4 Aces Claims
Esmeralda County, Nevada

Reference is to your letter dated November 27, 1953, signed by W. S. Martin, requesting a field examination of the subject property.

Accordingly, the property was examined on December 16 to 18, 1953, and there are enclosed four copies of a report entitled "DMEA-3201, 4 Aces Mine, Esmeralda County, Nevada, (Tungsten)," by Benjamin H. Sheahan, Mining Engineer, U. S. Bureau of Mines, and Earl H. Pampeyan, Geologist, U. S. Geological Survey, dated February 9, 1954.

According to the examining engineer and geologist, there is not sufficient tungsten mineralization on the property to warrant Government assistance for exploration.

Mr. Roscoe Smith and I concur with their recommendations.

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

Attachment

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 23 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3201, 4 Aces Mine
Esmeralda County, Nevada

(Tungsten)

Benjamin H. Sheahan, Mining Engineer
U. S. Bureau of Mines

Earl H. Pampeyan, Geologist
U. S. Geological Survey

February 9, 1954

EXAMINATION REPORT

Docket No.: DMEA-3201 (Tungsten)

Name and address of applicants: Don H. Clair, Dyer, Nevada
A. C. Nelson and V. Nelson
277 3/4 South Lake Street
Los Angeles, California

Name and location of property: 4 Aces Claims, Esmeralda County, Nevada

SUMMARY

The 4 Aces mine is primarily a lead-zinc-silver property, located in the Sylvania Mining District, Esmeralda County, Nev.

The property was examined by an engineer of the U.S. Bureau of Mines and a geologist of the U.S. Geological Survey on December 16 to 18, 1953.

Exploration work proposed by the applicants is not recommended. The applicants propose to explore their property for tungsten ore by driving 400 to 500 feet of drift and crosscutting from the 110-level of their lead-zinc-silver mine. Drifting would begin at the present face of the east drift and continue to the east until under the surface cut that exposes tactite which contains low tungsten ore (fig. 2).

From 60 tons of low grade tungsten ore, the operator recovered a concentrate averaging 53.0% WO_3. Total tungsten production amounted to approximately 9 units of WO_3.

A three man crew have mined and milled lead-zinc-silver ore and developed the property since 1951. Total lead-zinc-silver production

since 1951 amounted to about 60 tons of concentrates averaging about 37.2% lead and 33.0 ounces silver per ton.

The tungsten deposit is low grade and small. There are practically no reserves of scheelite.

CONCLUSIONS

The geologist recommends that the application for a DMEA loan be denied because: the scanty exposures of scheelite-bearing rock on the property, the evidence in the crosscut which suggests that the scheelite is pinching out at depth, the lack of reserves, and the grade of the deposit as shown by assays and previous production record.

RECOMMENDATIONS

Both the engineer and geologist recommend that the applicants request for an exploration loan be denied.

TIME SPENT ON PROPERTY

The engineer and geologist were accompanied by the applicants on December 16, 17, and 18, 1953. Surface and underground workings were mapped, lamped with ultra violet light and sampled.

NAME AND LOCATION OF PROPERTY

Name: 4 Aces Mine

Location: Sec. 31, T. 6 S., R. 39 E., M.D.B.&M., Sylvania Mining District, Esmeralda County, Nevada.

The distance by road to Dyer, Nevada is 25.2 miles.

Devil Mt.
Mount Diablo Base & Meridian

ACCESSIBILITY

The distance from the mine to Nevada State Highway No. 3 is 8.9 miles over a poor dirt road, which is frequently impassable in winter months.

COMPETENCY OF APPLICANTS

Mr. Don H. Clair, operator of the property, has about 30 years experience in the mining industry.

Mr. Nelson was associated as a stockholder in past operations at the property. He is an elderly retired building contractor with practically no mining experience.

The applicants are not financially able to provide capital for their share of an exploration loan.

APPLICANT'S PROPERTY RIGHTS

The three unpatented claims, 4 Aces No. 1, No. 2, and No. 3, were located in 1943. The claims are recorded at Goldfield, Nevada in Book I. F. pages 154-157.

DESCRIPTION OF THE PROPERTY

Surface facilities include a small camp and a mine and mill plant.

Mine workings are indicated on figure 2. Water pumped from these workings amounted to 1,500 gallons per day. Domestic water was obtained from a well near the main camp of Sylvania, located two

miles to the southeast.

Equipment at the property is as follows:

Mine Plant:

	Condition
1 Hoist, 25-horsepower, 8 cu. ft. bucket, and steel headframe	Fair
1 Air compressor, 140 cfm, belt drive	Poor
1 Generator, 10 k.w., 110-220 volt	Fair
1 Mine car, 16 cu. ft.	Fair
2 Rock drills - jackhammer with steel, hoses	Poor
1 Stoper	Poor
300 feet (approx.) track - 12# rail, 1-1/2-inch air line, 2-inch water line	Fair
1 Shop and hoist room with blacksmith shop	Fair
1 5-ton truck	Fair
1 D-30 bulldozer, gasoline	Fair
1 Water pump, 30 gpm, 2-inch discharge	Fair

Mill plant:

1 25-ton steel bin with Grizzley	Good
1 Rock crusher, 6" x 8"	Poor
1 Rock crusher, 4" x 6"	Poor
1 Rolls, 6" diameter x 14"	Poor
3 Concentrating tables	Fair
2 Water storage tanks, 3,000 gallons	Fair
3 Gasoline engines, belt drive	Fair

SAMPLING

Sample No. S-252 was taken from 8 tons of lead-zinc-silver concentrates. These concentrates represented a typical shipment recovered by three workmen after one month's mine and mill operation.

Sample No.	%, Pb	%, Zn	Oz. Ag/Ton	Oz. Au/Ton
S-252	37.2	5.5	33.15	0.01

Samples S-253 to S-257 were taken from the best showing of low grade scheelite bearing tactite. The sample locations, widths and analysis are shown on figure 2.

GEOLOGY

The 4 Aces Claims, in Esmeralda County, Nevada, are in an area underlain by early Paleozoic limestone that has been intruded by Jurassic granite and later covered by Tertiary (?) volcanics.

The limestone crops out as a buff colored, fine-grained rock which has been recrystallized into a granular mass of calcite crystals near the igneous contact. Neither underground exposures or nearby surface croppings showed signs of bedding. This limestone unit trends east and is exposed for about two miles in that direction. The south, or limestone-granite, contact can be traced along the length of the limestone. In the mine area the northern boundary is obscured by andesite slope wash, but the limestone is believed to be more than 300 feet thick. The operator, Don Clair, reported that the limestone unit is at least 1,000 feet thick nearby.

A light gray porphyritic granite, resembling similar rocks of the Sierra Nevada batholith, is in contact with the limestone along the southern half of the property. The granite has a medium-grained groundmass, averaging 2 mm in diameter, made up of quartz, orthoclase, plagioclase, biotite, and hornblende. Phenocrysts of gray orthoclase 20 mm long make up about 30 percent of the rock.

Along the limestone-granite contact, both on the surface and underground, pods of tactite were seen. The tactite on this property is composed almost entirely of garnet with only minor amounts of epidote. Traces of

scheelite, powellite, and molybdenite were found locally.

The slopes north of the inclined shaft are covered with pale red-purple, fine-grained, scoriaceous andesite float which masks the limestone's northern contact.

A northeast-striking fault cuts through the property east of the inclined shaft and offsets the limestone-granite contact about 100 feet (fig. 2). The best exposures of scheelite were east of this fault but it is unlikely that this fault played any part in controlling mineral deposition.

ORE DEPOSITS

The 4 Aces Claims are primarily lead claims with the underground workings following two veins of galena. Only traces of scheelite were seen underground at the east end of 55-level.

Scheelite mineralization on the 4 Aces property occurred in a contact metamorphic environment when the limestone was intruded by the porphyritic granite. Pods of tactite, scattered along the intrusive contact, contain small amounts of tungsten minerals. Scheelite is the main ore mineral; some powellite is also present. The molybdenum minerals powellite and molybdenite were found predominately on the north, or hanging wall, side of the tactite pods.

After lamping the property, only one exposure of scheelite-bearing tactite (the main cut) was thought worth sampling. (See fig. 2 for results of sampling.) No surface exposures of scheelite were seen west of the main cut; the tactite on the property east of the cut contained only scattered

traces of scheelite. In 1951 about 60 tons of tactite was mined from the main cut, 300 feet east of the inclined shaft, and yielded almost nine units of WO_3, indicating an average grade of less than 0.15 percent WO_3.

Scheelite mined in the main cut appears as a thin coating of white powder on fracture surfaces in the tactite. Other exposures of tactite nearby, but not on the applicants' property, show small crystals of scheelite disseminated through the rock.

ORE RESERVES

Reserves of tungsten on the 4 Aces property appear to be rather small. The ore is spotty and low grade along the strike of the tactite; the vertical extent of the tactite does not offer more attractive prospects. The East crosscut, 80 feet southeasterly and 37 feet below the main cut, cuts the same tactite but shows only minute traces of scheelite. There are no measured or indicated reserves; inferred reserves could contain enough scheelite to equal the 1951 production record, but it is unlikely that they would exceed that record.

PROPOSED EXPLORATION

The applicants would like to explore the scheelite-bearing tactite body at or below the water table where they expect to find the scheelite in hard crystals instead of as powdery fracture coatings. This could be accomplished by extending the present 110-level East drift some 190 feet. A total of 400 to 500 feet of drifting and crosscutting have been asked for to thoroughly explore the potential ore zone.

It seems unlikely that the nature of the scheelite would change below the water table. It also seems that the applicants' proposal is designed to develop the lead mine with DMEA funds from the scheelite exploration application.

Rather than drifting from the 110-level toward an ore body that appears to be diminishing with depth, it might be better to begin exploration at the site of the main cut and to deepen and extend this cut until the horizontal and vertical range of scheelite-bearing tactite was determined.

PAST OPERATIONS

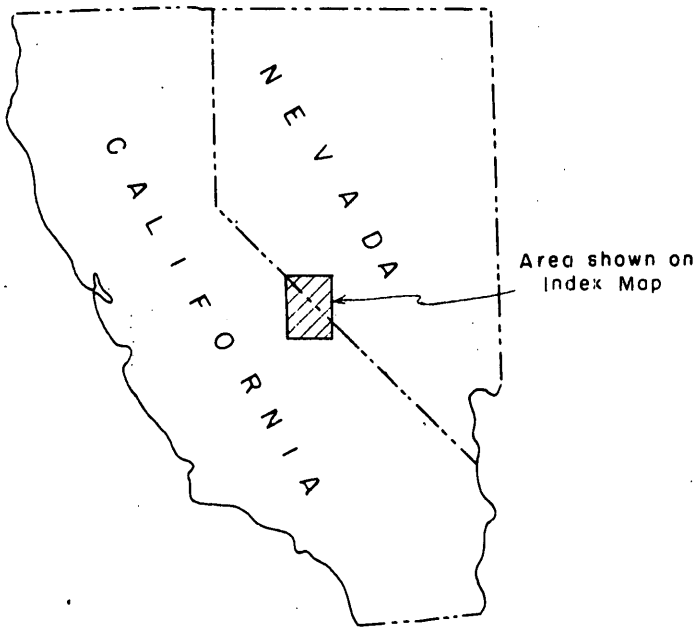
The discovery of lead-silver ore in the Sylvania District dates back to 1872. Operations at the property have generally been conducted during periods of favorable lead or silver prices. The claims were relocated in 1943 and the recent attempt to operate the property was started in 1951. The scheelite mineralization was discovered in 1951 by Mr. Clair who tried to exploit the submarginal deposit.

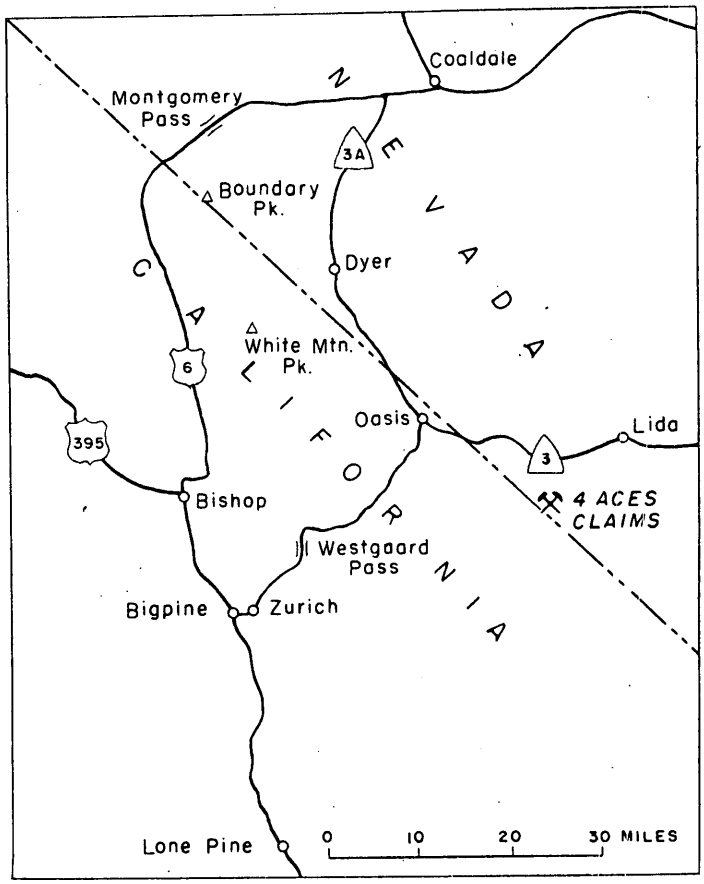
LABOR AND SUPPLIES

Labor is scarce in this region. The current wage scale paid by the operator was $15.00 per day.

Supplies are obtained from Bishop, California, a distance of 66 miles.

Electric power is not available. The nearest source is the California-Nevada high voltage line located near Oasis, Calif.





INDEX MAP SHOWING LOCATION OF 4 ACES CLAIM
ESMERALDA COUNTY, NEVADA

FIGURE 1

FILE COPY
400 SURNAME:

Rutledge
Martin
Geehan
Lavendale
Hedges
Fitzsimmons

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

NOV 27 1953

Mr. Don H. Clair
Nelson, Nelson & Clair
Oasis, California
via Dyer, Nevada

Re: Docket No. DMEA 3201 - Tungsten
4 Aces claims
Esmeralda County, Nevada

Dear Mr. Clair:

Reference is made to the above-docketed application for exploration assistance which 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 a field examination of the property.

Any assistance that you can render the members of the field team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
11-23-53
cc: Docket
Code 400
FT. REG. III
Admr. Reading File
Operating Comm.
R. W. Geehan, USBM
T. P. Thayer, USGS

11-27-53

400

FILE COPY
SURNAME:

Rutledge
Martin
Geehan
Thayer
F.E. Johnson

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

NOV 27 1953

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 3201 - Tungsten
Nelson, Nelson & Clair
4 Aces claims
Esmeralda County, Nevada

Dear Mr. Miller:

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

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (2/B)

APPROVED:

J. H. Hedges (2/B)
Member, Bureau of Mines

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

FARutledge:foc
11-23-53
cc: Docket
Code 400
FT. REG. 3
Operating Comm.
Administrator
R. W. Geehan, USBM
T. P. Thayer, USGS

11-27-53

Mr. Don H. Clair
Star Route
Dyer, Nevada

November 5, 1953
Subject: DMEA-3201
Re: Exploration Assistance

Dear Mr. Clair:

The receipt of your application dated September 7, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3201 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-3201 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations 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. DMEA-3201
Metal or Mineral
Date Received 11-5-53
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: A.C. NELSON, V. NELSON, + HON. H. CLAIR
277 3/4 S. LAKE ST.
LOS ANGELES Calif DYER NEV.

(*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 4 Aces Claims - Consisting of 4 Aces #1-2 & 3 situated in Silvania Mng Dist Esmeralda County Nevada & Recorded in Book E-E Page 154-157 at Goldfield Nev.

(*b*) State any mine name by which the property is known. 4 Aces

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

(*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.

(*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 will 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 60 days and be completed within 3-4 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 Sept 7, 1953

A. C. Nelson V. Nelson
Don H. Clair
(Applicant)

By Don H Clair

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

Oasis, Calif.
Via Dyer, Nev.
Nov. 2, 1953.

RECEIVED
Nov 6 1953

Mr. C. O. Mittendorf.
Administrator,
Defense Minerals Exploration.
Washington D. C.

Dear Mr. Mittendorf.

At the suggestion of the San, Francisco office I am sending the enclosed application direct to you, as I mentioned that I had known you for many years around Randsburg, Ballarat & Skidoo country and you no doubt reember me as having operated for some years at the Ratcliff Mine near Ballarat. Consequently the San Francisco office suggested that you would know that I was not a Wildcatter and that you could probably expedite consideration of my application.

Since L 208 I have been at this location working on Tungsten Talc & Lead Silver & zinc.

Have some nice lead showings and have mill from which I have shipped considerable Lead & some Tungsten.

I am somewhat at loss to give a detailed cost estimate but thought this could be worked out with any examining engineer .

Present Lead prices ae not so good considering costs but one can do fairly well on Tungsten in this district as marketing is no problem.

Congratulations on your position in Washington, you have done well.

Any consideration you find time to give my application will be very much appreciated.

With best personal regards I remain.

Sincerely Yours Don H. Clair

Don H. Clair.

4 Aces Group.
Consisting of 4 Aces # I-2-3-4 Claims.

I. Unpatented claims recorded in Esmeralda County at Goldfield Nev. in Book I.F. Page I54-I57.

Bureau of Mines
Strategic Minerals Administration
RECEIVED
NOV 5 1953

2. Physical Description.

We have sunk a shaft II0 ft. and have started a drift in direction of Tungsten deposit which when driven about 250 ft. will strike under the ore shoot on the Tungsten at about II0 ft.

This drift is about I00 ft. and along with the shaft sinking and installation of hoisting equipment and compressorhas been done solely at our expense.

We have a 40-50 ton mill on property but have only 3 tables, and we have run some 60-70 tons of surface ore from an open cut which paid off 450 dollors after deducting cleaning charges.

The crystals are very POWDERY and we have been unable to save less than one half of values but have been advised by experts that at or near water level we can expect to hit harder crystals as the surface ores are highly oxidized.

This drift which we are now driving will hit the Tungsten at water level.

The Scheelite occurs in a Garnatite dike on a lime and Granite Contact and can be traced thru the country for over 2 miles on this contact having ore shoots at various places ranging in width from 8 to 40 ft. and the one lowest down on the formation is where we are working and is 40 ft. wide and lamps for about I00 ft. in length, then lean for I00 ft. then good again .

Within a few feet of this Garnatite dike is a lead & zinc vein which has produced considerable ore although the Tungsten never contains any Lead .

There are good roads to the property which is at about 6500 ft. elevation and is accessable and practical for year around operation.

It is situated about 65 miles from Bishop Calif. where the product may be cleaned & sold.

We have domestic & mine & mill water on the property , there is no material or manpower shortages.

We will probably contract the work at about 20 dollars per. ft. cost which will include the hoisting and surface labor.

There will be some repairs to camp buildings necessary for housing and showers etc amounting to about $I000 to $I500 dollars. Two new Jackhammers and a Jack Leg will be needed at a cost of about $800 dollars. We have three trucks, a bulldozer, maintainance tools and camp equipment which will be furnished as part of our share . Compensation Insurance 200- 250 per month will be required.

In all this development should require some 400- 500 ft. of drifting and cross cutting and to determine the ores available.

We believe this can be done for about $I5,000. dollars.

This development work will also develop a good lead zinc vein which parrellels the Tungsten, later on if Lead again becomes strategic 2 more parallel veins can be developed by a small amount of cross cutting. We have already proven the existance of 3 Lead Zinc veins on the same claim and some good Uranium Carnatite float has been found near the sand stone hanging wall .

Don H. Clair will be in charge of all operation. He has had 30 years experience in mining and milling.

Respectfully Submitted.
A.C. Nelson, V. Nelson, & Don H. Clair.
By Don H. Clair.

Hon. H. Clair
Star Route
Dyer Nev.

BISHOP
NOV 3
1200PM
1953
CAL.

VIA AIR MAIL

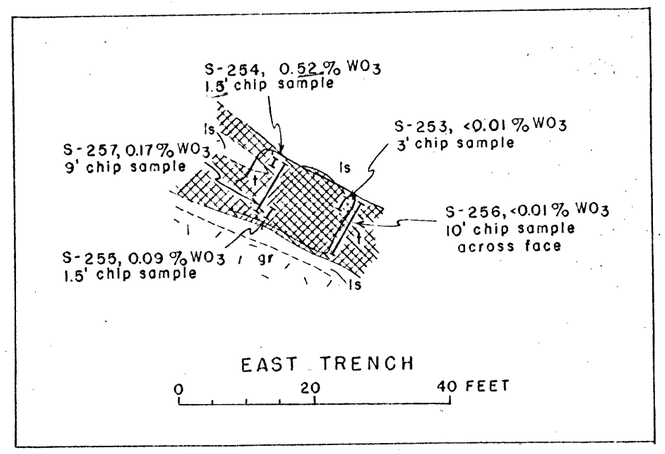
AIR MAIL 6¢ U.S. POSTAGE

AIR MAIL 6¢ U.S. POSTAGE

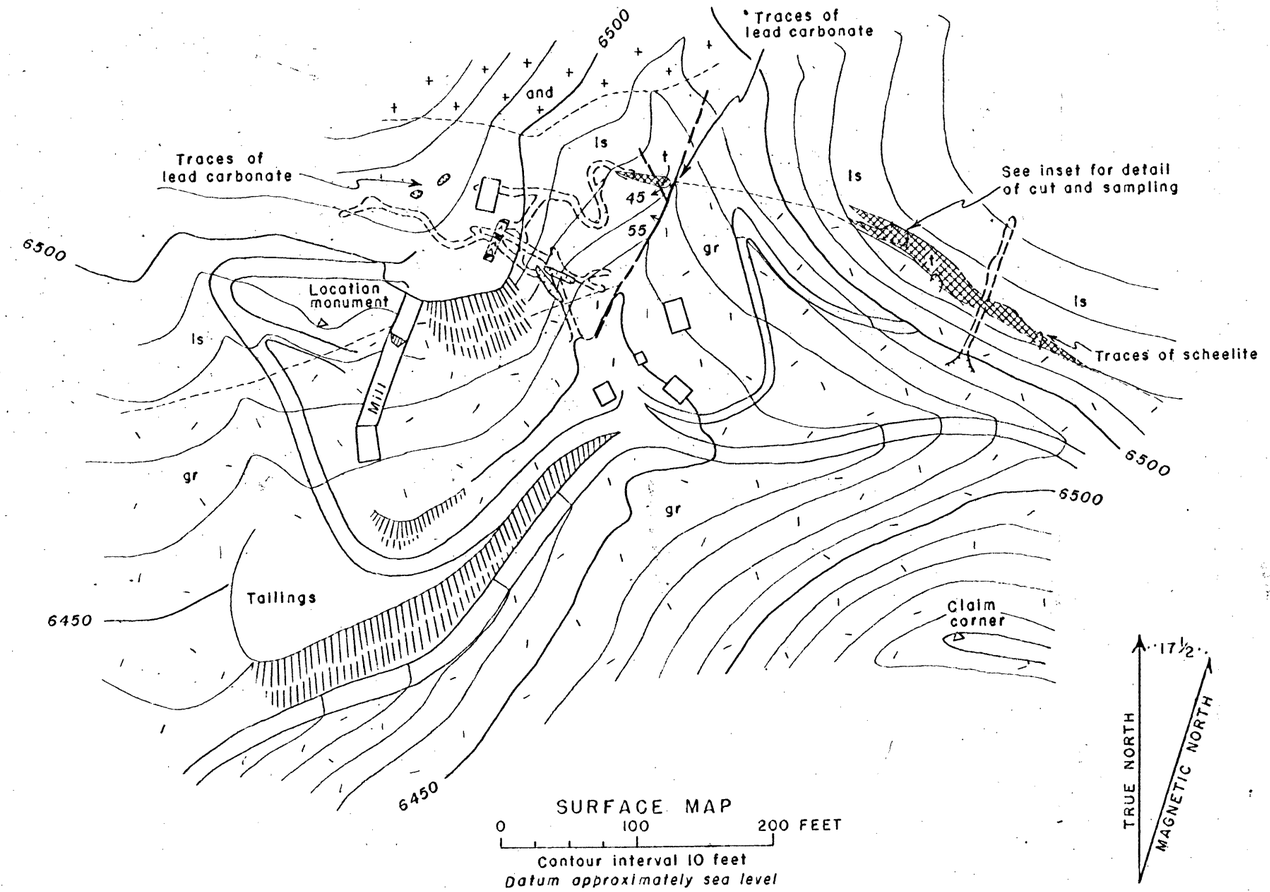
Mr. C. O. Mittendorf
Administrator
Defense Minerals Exp. Administration
Dept. Interior
Washington D. C.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3021
(TUNGSTEN)



EAST TRENCH

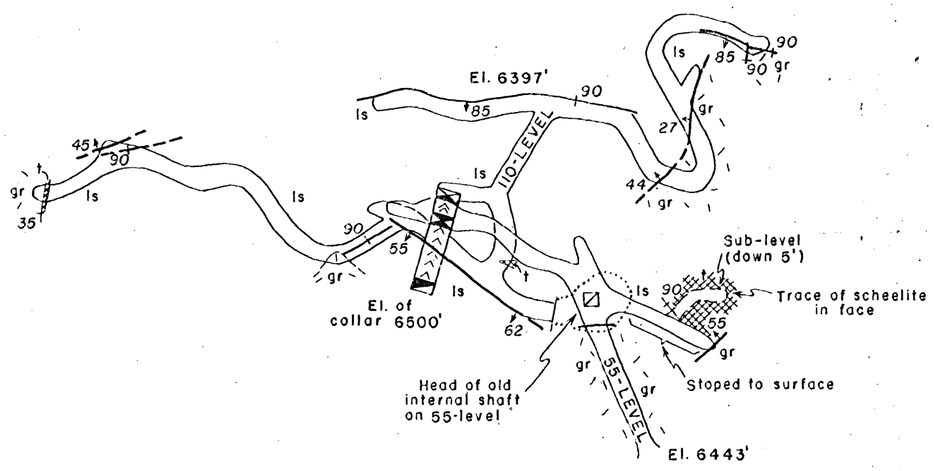


SURFACE MAP

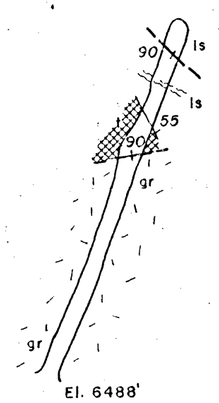
Contour interval 10 feet
Datum approximately sea level

EXPLANATION

- Andesite
- Tactite
- Porphyritic granite
- Limestone, recrystallized near igneous contact
- Contact, showing dip *Dashed where approximately located*
- Fault, showing dip *Dashed where approximately located*
- Vertical fault
- Collar of inclined shaft *Chevrons point down*
- Portal of adit
- Small prospect pit or open cut
- Dump
- Shaft at surface
- Shaft going above and below levels
- Bottom of shaft
- Head of raise or winze
- Caved workings
- Underground workings



COMPOSITE MAP OF UNDERGROUND WORKINGS



EAST CROSSCUT

0 40 80 FEET

Geology by E. H. Pampeyan, U.S.G.S. and B. H. Sheahan, U.S.B.M.
December, 1953

SURFACE AND UNDERGROUND MAPS, 4 ACES CLAIM, ESMERALDA COUNTY, NEVADA

FIGURE 2