400

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

JUN 29 1954

Hon. George W. Malone
United States Senate
Washington 25, D. C.

My dear Senator Malone:

Reference is made to our letter of April 8, 1954, with regard to the status of an application from the Golden Scheelite Mining and Milling Company, Fred J. Bartels, President, 1072 "J" Street, Springfield, Oregon, for aid in exploring for tungsten on the Lincoln and Greenhorn claims in Humboldt County, Nevada (our Docket No. DMEA 3264).

As the result of a field examination of the referenced property and consideration of all available data, it has been determined that the probability of disclosing minable ore reserves by the applicant's proposed program is not sufficiently promising to justify Government participation in an exploration project. The referenced application, therefore, has been denied.

For your information, a copy of our letter of denial to Mr. Bartels is enclosed.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
6-24-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.

Enclosure

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

JUN 29 1954

Hon. Guy Cordon
United States Senate
Washington 25, D. C.

My dear Senator Cordon:

Reference is made to our letter of March 23, 1954, with regard to the status of an application from the Golden Scheelite Mining and Milling Company, Fred J. Bartels, President, 1072 "J" Street, Springfield, Oregon, for aid in exploring for tungsten on the Lincoln and Greenhorn claims in Humboldt County, Nevada (our Docket No. DMEA 3264).

As the result of a field examination of the referenced property and consideration of all available data, it has been determined that the probability of disclosing minable ore reserves by the applicant's proposed program is not sufficiently promising to justify Government participation in an exploration project. The referenced application, therefore, has been denied.

For your information, a copy of our letter of denial to Mr. Bartels is enclosed.

Sincerely yours,

C. O. Mittendorf

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Operating Comm.

JUN 29 1954

Mr. Fred J. Bartels, President
Golden Scheelite Mining and Milling Co.
1072 "J" Street
Springfield, Oregon

Re: Docket No. DMEA 3264 - Tungsten
Lincoln and Greenhorn claims
Leonard Creek Ranch
Humboldt County, Nevada

Dear Mr. Bartels:

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.

Our denial, however, is made without prejudice to the property. If at some future date additional prospecting finds evidence of significant tungsten mineralization, we shall be glad to consider a revised application for exploration assistance. The revised application should contain all of the necessary supporting data required by form MF-103 and refer to the present docket.

Sincerely yours,

FARUTLEDGE:FOC
6-24-54

C. O. Mittenderf

Administrator

cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS
Hon. George W. Malone, U.S. Senate
Hon. Guy Cordon, U.S. Senate

June 24, 1954

MEMORANDUM

To: Administrator, DMEA

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

Subject: Denial of exploration project in the amount of $46,309.86
Docket No. DMEA 3264 - Tungsten
Golden Scheelite Mining and Milling Co.
Fred J. Bartels, President
Lincoln and Greenhorn claims
Humboldt County, Nevada

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

1. The applicant proposed to explore for scheelite a tactite zone along the western contact of a schist inclusion in quartz monzonite. The mineralized area is located about one-half mile southerly from Bartlett Peak in Humboldt County, Nevada. Exploration was to consist of driving an adit northeastward approximately 300 feet under the two most promising showings from a small open cut at the south end of the area, followed by raising to the largest of the test pits, and 800 feet of core drilling. The adit would give 75 feet of back under the largest pit.

2. The Golden Scheelite mine area is underlain to an unknown depth by metamorphic rocks included in quartz monzonite; tactite and biotite-feldspar-quartz schist are the only exposed metamorphic rocks. The scheelite is present in small quantities in almost all of the tactite exposed and is locally abundant in the largest pit. Here the scheelite is most abundant along the west wall and is particularly concentrated near the schist in the southwest part of the pit. The highest analysis obtained by the Field Team was 0.59 percent WO_3 over a width of 6 feet. The average of the six samples taken from the largest pit is 0.25 percent WO_3.

Sparse data suggest that steeply dipping metamorphic rocks striking northeast are in contact with quartz monzonite along a general north-trending line west of the pits for at least 300 feet. The position of the contact is not known to the

north and east, but is limited by the granitic exposures on Bartlett Peak several hundred feet to the east. As the metamorphic rocks are completely enclosed in the quartz monzonite, it seems likely that the size of the inclusion will decrease with depth.

3. The applicant estimated that his program would cost $46,309.86. This was entirely out of line considering that $13,200.00 of this amount was allotted for core drilling, road repair, and new buildings and the remainder, $33,109.86, would be charged to the underground work. This would give costs of $88.29 per foot for the 375 feet of drifting and raising. Cost for supervision was 30.85 percent of the total payroll: $900.00 per month for a general manager and $800.00 per month for an assistant manager.

4. The applicant's statement that 1 percent WO_3 is necessary to profitably ship to the nearest tungsten mill (Getchell). Inasmuch as none of the assays are as high as the 1 percent cutoff, no ore reserves may be calculated at present.

5. The examining field team recommended denial of the subject application in view of the low grade material exposed in the best showings and as there is no geologic evidence to warrant the inference that unexplored segments of the tactite will be of higher grade.

6. The Field Team concurs with the recommendations of the examining engineer and geologist.

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

FARUTLEDGE:foc
6-24-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.

F. A. Rutledge, Acting Chief
Iron and Ferro-Alloys Division

Mr. Fred J. Bartels, President
Golden Scheelite Mining and Milling Co.
1072 "J" Street
Springfield, Oregon

Re: Docket No. DMEA 3264 - Tungsten
Lincoln and Greenhorn Claims
Humboldt County, Nevada

Dear Mr. Bartels:

This will acknowledge receipt of your letter of May 19, 1954, inquiring about the status of your application and commenting on the conference you had with Mr. A. C. Johnson in Reno, Nevada, after the field examination.

A copy of your letter was sent immediately to the Field Team, with a request for such comments as may be appropriate. The Field Team report reached us May 24, 1954, and as soon as we receive the requested comments you will be advised accordingly.

Sincerely yours,

C. O. Mittendorf

Administrator

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

WSMartin/ls
5-27-54

400

DOCKET
Martin
Johnson
Selfridge

Mr. Fred J. Bartels, President
Golden Scheelite Mining and MillingCo.
1072 "J' Street
Springfield, Oregon

Re: Docket No. DMEA 3264 - Tungsten
Lincoln and Greenhorn Claims
Humboldt County, Nevada

Dear Mr. Bartels:

This will acknowledge receipt of your letter of May 19, 1954, inquiring about the status of your application and commenting on the conference you had with Mr. A. C. Johnson in Reno, Nevada, after the field examination.

We will reply at greater length when the Field Team report, which will come to us from Mr. H. C. Miller, Executive Officer, DMEA Region III, in San Francisco, California, has been received and reviewed by us.

Sincerely yours,

Administrator

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

WSMartin/ls 5/24/54

400

MA[illegible]

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 3264 - Tungsten
Golden Scheelite Mining and
Milling Co.
Lincoln and Greenhorn claims
Humboldt County, Nevada

Dear Mr. Miller:

Enclosed are two copies of a letter of May 19, 1954, from Fred J. Bartels, President of the subject company, discussing his conversations in Reno with Mr. A. C. Johnson and Mr. Frank Wiebelt.

We note from the monthly report of Region III for April, with reference to the subject docket, that: "Field examination completed; joint report is in preparation."

We assume that the Field Team report covers the several questions raised by Mr. Bartels, but if not, it will be appreciated if you will comment also on his above-mentioned letter.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines

D. M. Larrabee
Member, Geological Survey

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

WSMartin/ls
5/20/54

400

COPY

GOLDEN SCHEELITE MINING AND MILLING COMPANY
SPRINGFIELD, OREGON

May 19, 1954

Mr. C. A. Mithendorf
Defense Minerals
Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA 3264 - Tungsten
Lincoln and Greenhorn Claims
Leonard Creek Ranch
Humboldt County, Nevada

Dear Mr. Mithendorf:

We have just returned from a trip to Reno, Nevada, for the purpose of discussing with Mr. A. C. Johnson, Bureau of Mines, and Mr. Frank Webelt, mining engineer, the prospect of approval of our exploration aid application on the tungsten occurrence near Bartlett Peak, Nevada. As a result of this interview we assumed that on the basis of the information available. the field team was in doubt whether granting of the loan should be recommended or not. For these reasons we feel it is important to bring you up to date on the occurrence of events, and to point out various factors which may not have received sufficient consideration by the field team.

Briefly to bring you up to date on the occurrence of events.

A. On April 13-14 our property was examined by Mr. Webelt, mining engineer and Don Ross, geologist from Menlo Park, California.

B. We have revised our original cost estimate downward to a total expenditure of $13,490. The project has been divided into three phases; the approval of Phase III in the amount of $4,290 is dependent upon success of Phase II.

C. We have furnished to DMEA through Mr. Johnson at Reno, Nevada, additional papers confirming ownership rights of this mining property by the Golden Scheelite Mining and Milling Company.

For your consideration we list the following items which we feel are extremely important, some of which may have been underestimated unintentionally by the field team.

A. Evaluation of assays.

1. The following assays in addition to the ones listed in the application were presented to Mr. Johnson in the interview on May 14, 1954. These assays were not included in the original application because we did not have them here in our Springfield office.

   a. July 5, 1953, sample cut nine feet in length, six inches wide and four inches deep. Assayed at Getchell Mine, Red House, Nevada.
   Assayed 0.72% WO_3

   On same date a sample was cut in same trench and shipped to Bishop, California. Sample same weight as above.
   Assayed 0.71% WO_3

   b. On July 12, 1953, a sample was cut in the upper part of the pit nine feet in length, six inches in width and four inches deep. This sample was assayed by Nevada-Mass. at Tungsten, Nevada.
   Assayed 1.03% WO_3

   c. On February 15, 1954, approximately 20 tons of ore mined from floor of pit. The composite sample of which was sent to Getchell Mine, Red House, Nevada.
   Assayed 0.59% WO_3

2. Mr. Johnson expressed opinion samples taken by us and sent to various assayers were (Salted) due to difference between our samples and Government samples. However he agreed it would be extremely difficult to salt the six ton sample sent to the Getchell Mine 9--30--53, copy of which was listed in the original application, which assay ran 0.71% WO_3

   Considering this six ton sample, Mr. Johnson expressed the opinion there was no basic conflict between this sample, and samples taken by field team across the vein in the bottom of the pit.

3. It was agreed that sample No. 534 which assayed 0.59% WO_3 and No. 538 which assayed 0.31% WO_3 were more significant because these had been cut across the vein, and in the bottom of the pit, and not higher and parallel to vein as most of the others were.

4. It has been characteristic in this ore body that where the ore is decomposed, the fines in the ore generally carry 65 to 70% of the scheelite. Since the pit was exposed to freezing and thawing conditions through the winter, it is our opinion that the fines had eroded considerably from the walls of the pit where the majority of the samples were taken by the Government field team which would account in part for a lower assay.

5. While we respect the conscientious work done by the field team to make a fair appraisal of this property, we feel the team erred in not using a canvas to catch all of the ore coming from a particular cut. We did not make issue of this, since we were confident the ore would run sufficiently high on the basis of previous samples; especially the six ton Getchell sample We feel the failure to use a canvas is also a contributing factor to the relatively low assays, since as stated above the fines in the ore carry about 65 to 70% of the tungsten.

B. Geology

We are not sure the geological report by Don Ross was unfavorable, and cannot see how it could be as we have all the associated minerals and contacts usually found where substantial tungsten deposits have been developed, and in addition a much greater width of vein than usually is found in surface tungsten occurrence. As we recall, mention was made by Don Ross that in his opinion the ore body was surrounded by quartz monzonite which may indicate an ore body of questionable depth.

We cannot account for this conclusion, in view of the fact that in his book, Paul F. Kerr, Columbia University, March 9, 1946, Tungsten Mineralization in the United States, Memoirs 15, Geological Society of America, in describing Contact Metamorphic Deposits (Page 41) writes quote: The associated intrusive is prevailingly acid igneous rock. The types most frequently represented are granite, granodiorite, quartz monzonite, and quartz diorite, together with their facies or porphyritic equivalents.

Page 42 - Shows contact Relationship (Quartz Monzonite) Old Hickory Mine, Milford, Utah.

Page 46 - Copper King Mine - Milford, Utah.

Page 62 - Vicinity of Atolia district California.
Quartz Monzonite
See figure 4 - Kerr Plate 17. Mining carried on along the various veins which cut the quartz Monzonite.

There is a strong similarity between both Bartlett Peak and Mill City Tungsten as to the surface contacts and mineral association. Was informed last summer Mill City Tungsten were mining at a depth of 1,800 feet.

Page 126 - Outline of ore body, Yellow Pine, Idaho.
Shows ore body surrounded by quartz monzonite.

C. Conclusion

Since we have spent considerable money to develop this tungsten occurrence into a large and favorable prospect, and in view of the geologic evidence submitted, it does seem to us an occurrence of scheelite of this size should be worthy of the samll exploratory aid fund, as set forth in the revised DMEA application. We feel this exploration would serve a twofold purpose.

An appreciable amount of Tungsten can be produced and added to the nation's stockpile in these critical times.

Secondly, this exploration would provide the government with needed geologic and mineral information about this unexplored are of Nevada.

SIGNED: FRED J. BARTELS

Fred J. Bartels, president
Golden Scheelite Mining
and Milling Company

cc: Senator Guy Cordon

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

400

1012 Flood Building
870 Market Street
San Francisco, Calif.

May 19, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3264 - Tungsten
Golden Scheelite Mining and Milling Company
Lincoln and Greenhorn Groups
Humboldt County, Nevada

Reference is made to your letter dated March 23, 1954, requesting us to review the subject application and make an examination of the property.

The property was examined on April 13 and 14 by an engineer of the Bureau of Mines and a geologist of the Geological Survey. Attached are four copies of a report entitled "DMEA-3264, Golden Scheelite Mining and Milling Co., Lincoln and Greenhorn Groups, Humboldt County, Nevada," by Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, and Donald C. Ross, Geologist, U. S. Geological Survey, dated May 12, 1954.

The engineer and geologist are in agreement that the property does not merit financial assistance for exploration, and from a study of the report, I concur in their recommendation.

Also attached are three copies of an amendment to the original application as a revision to costs under question No. 6. Mr. A. C. Johnson also was furnished with four copies of an assignment of the lease to the Golden Scheelite Mining and Milling Company. Though this assignment is not needed in view of the unfavorable recommendation of the engineer and geologist, nevertheless, three of the four copies are being sent to you herewith.

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

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
5/28/54
(date)

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-3264, Golden Scheelite Mining and Milling Co.

Lincoln and Greenhorn Groups

Humboldt County, Nev.

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

Donald C. Ross, Geologist
U. S. Geological Survey

May 12, 1954

Reviewed by
DMEA OPERATING COMMITTEE
5/28/54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3264 (Tungsten)

Name and address of applicant: Golden Scheelite Mining and Milling Co., 1072 J Street, Springfield, Oregon.

Name and location of property: Lincoln and Greenhorn Groups of mining Claims Humboldt County, Nevada

SUMMARY

Pursuant to an application for aid in an exploration project, an examination of the Golden Scheelite Mining and Milling Company's property was made by a geologist of the Geological Survey and an engineer of the Bureau of Mines.

The mine is about 102 miles by road northwesterly of Winnemucca. It is about half a mile southerly from Bartlett Peak.

The Lincoln and Greenhorn group of claims area, comprising the property, is underlain by quartz monzonite; small outcrops of tactite and schist, part of a poorly exposed inclusion, are exposed in small pits sunk by the operator. Scheelite is randomly distributed in the tactite, and is locally concentrated in the largest pit.

The amended operator's proposal is to drive an adit north approximately 360 feet from a small open cut at the south end of the area. This adit would give 75 feet of backs under the largest pit.

CONCLUSIONS

The small amount of exposure does not permit geologic extrapolation to the depth of the adit, and further surface work would be necessary to determine the trend and depth of the scheelite-bearing tactite.

The absence of ore of mineable grade in the largest pit indicates that further surface exploration would probably not uncover scheelite-bearing tactite of higher grade.

RECOMMENDATIONS

It is recommended that the applicant's request for Government aid be denied.

INTRODUCTION

The examiners, consisting of D. C. Ross of the Geological Survey and Frank J. Wiebelt of the Bureau of Mines, spent April 13 and 14, 1954 on the property. They were accompanied during the examination by Fred J. Bartel, Joseph R. Thompson, Richard O. Eymann, Robert W. Straub, and William J. Holly of the Golden Scheelite Mining and Milling Co. The men representing the company were very cooperative during the examination.

NAME AND LOCATION OF PROPERTY

The property consists of the Lincoln Group of four claims and the Greenhorn Group of three claims situated approximately half a mile south of Bartlett Peak in Humboldt County, Nevada. It is accessible by

automobile from Winnemucca by following U. S. Highway 95 northerly 32.3 miles, thence State Highway 8A westerly 36.1 miles, then follow Leonard Creek road southerly 7.9 miles and thence westerly 15 miles to the Leonard Creek ranch. Continue on the Leonard Creek road 3 miles and then turn right on the Pearl Mine road and follow this road 4 miles and turn left past Josie Pearl's residence and go 2.5 miles, turn right and go 1.3 miles to the end of the road. The mine is about a quarter of a mile by trail beyond the end of the road. The total road mileage from Winnemucca is 102.1 miles.

ACCESSIBILITY

The property is accessible throughout most of the year except in periods of heavy snowfall during portions of the winter months.

COMPETENCY OF APPLICANT

The applicants apparently are successful business men and Mr. Fred Bartels claims to have had considerable experience in geology, mining and milling. The estimated costs of the proposed exploration accompanying their loan application was entirely out of line in regard to administration costs and considerable amount of other expenses that were not necessary for such a small exploration project. A revised program at considerable less cost than the original proposal was agreed on between the applicants and the examining field team based on the possibility of a favorable recommendation by the field team.

APPLICANTS PROPERTY RIGHTS

Mr. Fred J. Bartels and Harriett A. Bartels have a lease and option on the Greenhorn No. 1, Greenhorn No. 2, Greenhorn No. 3 claims of the Greenhorn Group and the Lincoln No. 1, Lincoln No. 2, Lincoln No. 3 and Lincoln No. 4 claims of the Lincoln Group, from Pete Cachenaut, Alex Dufurrena and Julia Dufurrena.

The location notices of the above claims according to the application are recorded in the Humboldt County Courthouse, Winnemucca, Nevada as follows:

Lincoln No. 1 - Book 5 of notices page 119
Lincoln No. 2 - Book 5 of notices page 198
Lincoln No. 3 - Book 5 of notices page 198
Lincoln No. 4 - Book 5 of notices page 230
Greenhorn No. 1 - Book 5 of notices page 173
Greenhorn No. 2 - Book 5 of notices page 197
Greenhorn No. 3 - Book 5 of notices page 197

Mr. Bartels advised the examining engineers that he was in the process of turning over his lease and option on the above property to the Golden Scheelite Mining & Milling Co.

DESCRIPTION OF PROPERTY

The mine workings consist of a large open cut 50 feet long, 15 feet wide and about 15 feet in depth; a 20 foot and a 60 foot long trench and several smaller trenches. There are no underground workings. A plan and sections of the mine are shown in figure 2.

There are no mine buildings on the premises.

The mine equipment consists of a 265 c.f.m. air compressor and a wheelbarrow.

SAMPLING

The following is a list of the samples taken by the field team from the property:

Sample No.	Length, feet	Percent WO_3	Percent Mo	Description
534	6.0	0.59	0.03	Across bottom large pit about 18.5 feet from face.
535	8.0	0.22	0.02	Along west wall large pit.
536	7.0	0.14	0.01	Along west wall north of #535.
539	12.5	0.22	0.01	Along west wall north of #536
537	5.0	0.01	0.01	Along bottom - face of large pit.
538	9.0	0.31	0.01	Bottom of large pit - 7 feet south of face.
540	6.0	0.12	0.01	Extreme northeast cut - along upper side.
541		0.26	0.01	Small hand grab sample of dump from large pit.

The location of the above samples are shown in figure 2.

All the workings examined by the engineers are located on the Lincoln No. 1 claim.

GEOLOGY

The Lincoln and Greenhorn claims area is underlain to an unknown depth by metamorphic rocks included in quartz monzonite; tactite and biotite-feldspar-quartz schist are the only exposed metamorphic rocks. The tactite is dark colored, massive, medium- to coarse-grained, and composed of pyroxene, garnet, amphibole, epidote, and quartz. The tactite is altered to a red-brown, soft, friable, considerably fractured

rock in the largest pit; in the smaller pits the tactite is generally fresh and hard. The schist is gray to dark gray, fine-grained, and is composed chiefly of quartz, feldspar, and biotite. Small 2 to 3 mm. euhedral feldspar crystals are present in some of the layers. The fine lamination of layers of differing mineralogy parallel to the schistosity is suggestive of original bedding; this lamination strikes northeast to east and dips steeply south.

The quartz monzonite is light tan, medium- to coarse-grained, porphyritic, and contains 5 percent or less of biotite. Pegmatitic patches are not uncommon and some aplite dikes cut the coarser granitic rock. The quartz monzonite in the face at the proposed portal site (Alt. 5425') is somewhat decomposed as a result of shearing or weathering. Some medium-grained, small dioritic inclusions are present in the quartz monzonite at the portal site.

The contact of the quartz monzonite with the metamorphic inclusion is exposed for only a few feet in the northwest corner of the largest pit. In this short segment the contact is nearly concordant. The contact probably strikes generally north in a line west of the pits, and the mapped laminations strike northeast to east, suggesting the contact is mostly discordant. Little is known of the extent of the metamorphic rocks to the east and northeast, except that Bartlett Peak, several hundred feet east, is granitic rock. The slope-wash covered hillside contains scattered

schist float northeast of the mine area, indicating a possible continuation of the metamorphic rocks in this direction.

ORE DEPOSITS

Scheelite is present in almost all of the tactite exposed. It occurs sparsely in the smaller pits, but is locally abundant in the largest pit. Here the scheelite is most abundant along the west wall and is particularly concentrated near the schist in the southwest part of the pit. The highest assay is 0.59 percent WO_3 (see table in Figure 2), and an average grade for the tactite in the large pit is 0.25 percent WO_3. Streaking of scheelite that may be parallel to the steeply dipping schist layers was noticed near the schist, but generally the scheelite is randomly distributed. Along the face and the east wall of the pit, the scheelite is concentrated in rounded patches 2 to 3 feet in diameter that are separated by several feet of essentially barren tactite. The scheelite in the northernmost pit fluoresces blue-white, but the remainder of the scheelite fluoresces canary yellow.

Sparse data suggest that steeply dipping metamorphic rocks striking northeast are in contact with quartz monzonite along a general north-trending line west of the pits for at least 300 feet. The position of the contact is not known to the north and east, but is limited by the granitic exposures on Bartlett Peak several hundred feet to the east. As the metamorphic rocks are completely enclosed in quartz monzonite, it seems

likely that the size of the inclusion will decrease with depth, but it is impossible to predict the depth to the bottom of the inclusion.

Tactite, being relatively resistant, commonly crops out in thinly covered areas where less resistant associated metamorphic rocks are not exposed. Probably all the pits were sunk on exposed tactite, and the possibilities for any bodies of tactite other than those exposed is doubtful within the area of the pits and for at least 100 feet to the east and north. The presently exposed bodies may, however, extend laterally. Further northeast, nearer Bartlett Peak, the talus may be thicker and other metamorphic rocks may be buried. Near the pits, however, the talus cover is only 3 to 4 feet thick, and any large body of tactite would probably be, at least in part, exposed.

ORE RESERVES

The operators have stated that 1 percent WO_3 is necessary to profitably ship to the nearest mill (Getchell). Inasmuch as none of the assays are as high as 1 percent, no calculable ore reserves are at present exposed on the property. In the largest pit a few tons of ore containing about 0.25 percent WO_3 is indicated, and a few hundred tons of ore of the same grade is inferred.

PAST OPERATION

The present operators of the property have shipped 6.058 dry tons of ore of 0.71 percent WO_3 content to the Getchell Mine Inc., Red House, Nevada which netted the company $99.83.

MANPOWER, SUPPLIES, ETC.

Experienced manpower, material, supplies and equipment are available at Winnemucca, Nev. An ample supply of water may be had from two small streams flowing across the property. No outside source of power is available so that it would be necessary to generate power at the property.

APPLICANTS PROPOSAL

The applicant originally proposed to drive an adit north 300 feet from the small open cut at the south end of the area, as shown in figure 2. In addition, a raise was to be driven from the adit to the surface under the largest pit, and 800 feet of diamond drilling was to be done from both the adit and surface.

Until surface work has proven some lateral extension of the ore in the largest pit, or disclosed other ore zones, it seems unwise to begin underground exploration, as the small amount of exposure precludes any conclusion about the trend or depth of the ore. Judging from the shallow depth to bedrock in the smaller pits (3 to 4 feet), it would not be difficult to do hand trenching.

Underground exploration would be a logical second step if surface trenching revealed enough scheelite-bearing tactite to warrant it. A 360-foot adit from the proposed portal site to the largest pit would give backs of about 75 feet and would give control on the depth of the inclusion roots. If the adit did not encounter scheelite-bearing tactite under the large pit,

further underground work would be of doubtful value.

In view of the low grade of the assays from the largest pit, it is probably not worthwhile to attempt to further explore the surface near the pits, as there is no geologic evidence to warrant the inference that unexplored segments of tactite will be of higher grade.

A S S I G N M E N T

WHEREAS, FRED J. BARTELS and HARREITT A. BARTELS, husband and wife, were the lessees under a certain lease and option dated the 10th day of June, 1953, wherein PETE CACHENAUT, a single man, and ALEX DUFURRENA and JULIA DUFURRENA, husband and wife, were the Lessors of the following described mining property, to-wit:

> All those certain lode mining claims and pieces or parcels of mining ground situated in the County of Humboldt, Nevada, Mining District unknown. Said mining claims and mining ground being described as follows:
>
> GREENHORN GROUP
>
> Greenhorn No.(1) Greenhorn No. (2) Greenhorn No. (3) Unrecorded.
>
> LINCOLN GROUP
>
> Lincoln No. (1) Lincoln No. (2) Lincoln No. (3) Lincoln No. (4) Unrecorded.
>
> These mining claims are located about one-half mile in a Southerly direction from Bartlett peak.
>
> Also all right and title of the lessors to all water rights, ditches, rights of way, and other easements and rights owned or possessed by Lessors and connected with or appertaining to the aforesaid mining claims.

Said lease by reference hereto is incorporated herein and made a part hereof as fully and completely as though set out in full herein; and

WHEREAS, the said FRED J. BARTELS and HARRIETT A. BARTELS, husband and wife, hereinafter referred to as Assignors desire to sell, assign, convey and set over unto GOLDEN SCHEELITE MINING AND MILLING COMPANY, a Nevada Corporation, hereinafter referred to as Assignee, all their right, title and interest in and to said property, leases and agreement including any rights and properties acquired by virtue of the agreement of June 10, 1953, now therefore,

W I T N E S S E T H:

For and in consideration of TEN ($10.00) DOLLARS and other good and valuable consideration to them in hand paid and receipt of which is hereby acknowledged, Assignors do hereby sell, assign, convey and set over unto the Assignee, all of their right, title and interest in and to said properties and in and to the said lease dated the 10th day of June, 1953 and they do hereby covenant unto Assignee, all their rights, interests and privileges which they have acquired by virtue of said lease.

Assignee, by the signature of its president hereto affixed and by its corporate seal does hereby accept this assignment and transfer.

IN WITNESS WHEREOF, the said parties have hereunto set their hands and seals the 31 day of March, 1954.

ASSIGNORS: Fred J Bartels SEAL

Harriet A Bartels SEAL

ASSIGNEE: GOLDEN SCHEELITE MINING & MILLING COMPANY
A Nevada Corporation.

CORPORATE SEAL BY: Fred J Bartels
President

A S S I G N M E N T

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> Lincoln No. (1) Lincoln No. (2) Lincoln No. (3) Lincoln No. (4) Unrecorded.
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Said lease by reference hereto is incorporated herein and made a part hereof as fully and completely as though set out in full herein; and

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W I T N E S S E T H:

For and in consideration of TEN ($10.00) DOLLARS and other good and valuable consideration to them in hand paid and receipt of which is hereby acknowledged, Assignors do hereby sell, assign, convey and set over unto the Assignee, all of their right, title and interest in and to said properties and in and to the said lease dated the 10th day of June, 1953 and they do hereby covenant unto Assignee, all their rights, interests and privileges which they have acquired by virtue of said lease.

Assignee, by the signature of its president hereto affixed and by its corporate seal does hereby accept this assignment and transfer.

IN WITNESS WHEREOF, the said parties have hereunto set their hands and seals the 31 day of March, 1954.

ASSIGNORS: Fred J. Bartels SEAL

Harriet A. Bartels SEAL

ASSIGNEE: GOLDEN SCHEELITE MINING & MILLING COMPANY
A Nevada Corporation.

CORPORATE SEAL BY: Fred J Bartels
President

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 J Street
Springfield, Oregon, Care Fred J. Bartels

AMENDMENT TO ORIGINAL APPLICATION
REVISION OF QUESTION #6. Estimate of Cost

6. Estimate of Cost:
The following costs have been estimated on an overall hourly and footage basis in order to simplify accounting and payments for work accomplished. It is proposed to divide the project into three phases as follows:

Phase I Roadbuilding and Repair
Phase II Initial Tunnel 250 feet in length
Phase III Tunnel Extension 130 feet in length

Phase I Roadbuilding and Repair

(1) Bulldozer operation 8 days @ $12.50 an hour	$100.00
(2) Surveying	150.00
Total Cost Phase I	$250.00

Phase II Initial Tunnel 250 feet in length
These costs are listed on a per foot basis. Work will be done on a 6 day week basis with an advance of approximately 4 feet per day. This section of the tunnel should be completed in 65 work days.

	Total Cost	Cost per ft
(1) Labor		
(a) One Miner @ $2.00 per hr.	$1040.00	
(b) Two Muckers @ $1.80 per hr.	1872.00	
Total Labor	$2912.00	$11.65
(2) Powder, caps, fuse	650.00	2.60
(3) Timbers	625.00	2.50
(4) Steel and Bits	250.00	1.00
(5) Gasoline and oil	350.00	1.40
(6) Engineering and accounting	250.00	1.00
(7) Supervision @ $150 per month	1350.00	5.40
(8) Assaying	250.00	1.00
(9) Insurance Social Security Tax at 12%	540.00	2.16
(10) Rental and Repair of Housing	500.00	2.00
(11) Supplies, Repairs & Contingencies	287.50	1.15

Golden Scheelite Mining & Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF - 103

Until Notified - Address: 1072 J Street
Springfield, Oregon. Care Fred J. Bartels

AMENDMENT TO ORIGINAL APPLICATION
REVISION OF QUESTION # 6 Estimate of Cost

6. Estimate of Cost: (Continued) — Cost Per Foot

Phase II (Continued)

(12) Equipment Rental as follows:
The operator will furnish all equipment

Item	Cost
Compressor	2000.00
Jackdrill	665.00
Air & Water Hoses	168.00
Air Line	110.00
Water Line	125.00
Water Tank	50.00
Tools	350.00
Mine Rails, Spikes, Fishplates, Ties	450.00
Mine Car	150.00
Mineral Light	110.00
Pickup Truck 4 wheel drive	1500.00
	$5678.00

Monthly rental equals $5678.00 divided by 60 months which equals $ 94.60
Rental for 3 months equals $ 283.80 — $ 1.14

Total Footage Cost — $33.00

Total Cost - Phase II 250 feet @ $33.00 — $ 8250.00

Phase III Tunnel Extension 130 feet in length.

Work on the tunnel extension will be done on the same basis as the initial tunnel. This section of the tunnel should be completed in 33 work days. Cost per foot will be approximately the same as in Phase II.

130 feet @ $33.00 per foot
Total cost Phase III $ 4290.00

Estimate of Cost Summary:

Phase I	Roadbuilding and Repair	$ 950.00
Phase II	Initial Tunnel 250 feet	8250.00
Phase III	Tunnel Extension 130 feet	4290.00
	Total Cost	$ 13490.00

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 J Street
Springfield, Oregon, Care Fred J. Bartels

AMENDMENT TO ORIGINAL APPLICATION
REVISION OF QUESTION #6. Estimate of Cost

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The following costs have been estimated on an overall hourly and footage basis in order to simplify accounting and payments for work accomplished. It is proposed to divide the project into three phases as follows:

Phase I Roadbuilding and Repair
Phase II Initial Tunnel 250 feet in length
Phase III Tunnel Extension 130 feet in length

Phase I Roadbuilding and repair

(1) Bulldozer operation 8 days @ $12.50 an hour	$800.00
(2) Surveying	150.00
Total Cost Phase I	$950.00

Phase II Initial Tunnel 250 feet in length
These costs are listed on a per foot basis. Work will be done on a 5 day week basis with an advance of approximately 4 feet per day. This section of the tunnel should be completed in 65 work days.

	Total Cost	Cost per ft
(1) Labor		
(a) One Miner @ $2.00 per hr.	$1040.00	
(b) Two Muckers @ $1.80 per hr.	1872.00	
Total Labor	$2912.00	$11.65
(2) Powder, caps, fuse	650.00	2.60
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(4) Steel and Bits	250.00	1.00
(5) Gasoline and oil	350.00	1.40
(6) Engineering and accounting	250.00	1.00
(7) Supervision @ $150 per month	1350.00	5.40
(8) Assaying	250.00	1.00
(9) Insurance Social Security Tax at 12%	540.00	2.16
(10) Rental and Repair of Housing	500.00	2.00
(11) Supplies, Repairs & Contingencies	287.50	1.15

Golden Scheelite Mining & Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF - 103

Until Notified - Address: 1072 J Street
Springfield, Oregon. Care Fred J. Bartels

AMENDMENT TO ORIGINAL APPLICATION
REVISION OF QUESTION # 6 Estimate of Cost

6. Estimate of Cost: (Continued) — Cost Per Foot

Phase II (Continued)

(12) Equipment Rental as follows:
The operator will furnish all equipment

Item	Cost
Compressor	2000.00
Jackdrill	665.00
Air & Water Hoses	168.00
Air Line	110.00
Water Line	125.00
Water Tank	50.00
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Mine Rails, Spikes, Fishplates, Ties	450.00
Mine Car	150.00
Mineral Light	110.00
Pickup Truck 4 wheel drive	1500.00
	$ 5678.00

Monthly rental equals $5678.00 divided by
60 months which equals $ 94.60
Rental for 3 months equals $ 283.80 — $ 1.14

Total Footage Cost — $33.00

Total Cost - Phase II 250 feet @ $33.00 — $ 8250.00

Phase III Tunnel Extension 130 feet in length

Work on the tunnel extension will be done on the same basis as the initial tunnel. This section of the tunnel should be completed in 32 work days. Cost per foot will be approximately the same as in Phase II.

130 feet @ $33.00 per foot
Total cost Phase III $ 4290.00

Estimate of Cost Summary:

Phase I	Roadbuilding and Repair	$ 850.00
Phase II	Initial Tunnel 250 feet	8250.00
Phase III	Tunnel Extension 130 feet	4290.00
	Total Cost	$ 13390.00

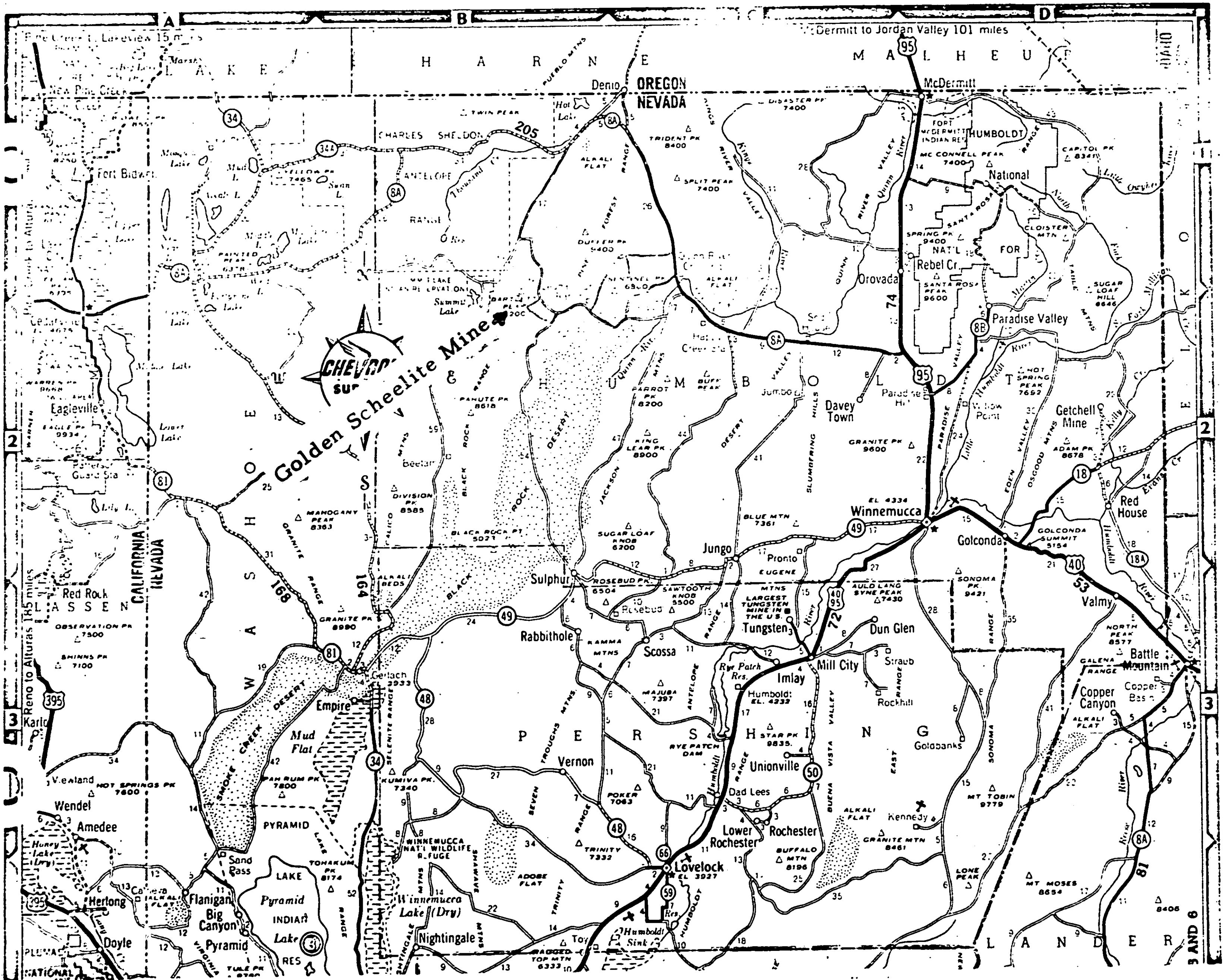


Figure 1. - Location map, Golden Scheelite M. & M. Co. Mine, Humboldt County, Nev.

3264

APR 8 1954

Hon. George W. Malone
United States Senate
Washington 25, D. C.

My dear Senator Malone:

Reference is made to your letter of March 26, 1954, to Mr. Edmund F. Mansure, General Services Administration, with regard to the status of an application from the Golden Scheelite Mining and Milling Company, Fred J. Bartels, President, 1072 "J" Street, Springfield, Oregon, for aid in exploring for tungsten on the Lincoln and Greenhorn claims (our Docket No. DMEA 3264). Your letter has been referred to this Agency by Mr. Irving Gumbel, Acting Director, Materials Division, Emergency Procurement Service, General Services Administration, for reply.

The subject application was received in this office on February 25, 1954, and on March 23, 1954, we referred it to the DMEA Field Team, Region III, for a field examination of the property. Mr. Bartels has been advised of our actions. Because of your indicated interest in this application, we shall keep you informed of future action concerning it.

Enclosed with your letter was a copy of a letter to you dated February 1, 1954, from Mr. Bartels, which asks whether in the event a project is approved any of the costs expended by the applicant before the date of the contract could be applied against the operator's share of the estimated cost set forth in the contract.

The original order, MO-5, dated April 6, 1951, issued by the Defense Minerals Administration (which this Agency succeeded), stated in Section 13(d), "No . . . costs incurred before the date of the contract, shall be allowed as costs of the project . . ." This language is repeated in each subsequent order issued and is contained in our latest DMEA Order-1, Amended, appearing in Volume 19, Federal Register, on page 1563, a copy of which is enclosed.

The application in question was submitted on Form MF-103, which has been in use since April 1952, a copy of which is enclosed. You will note that this form expressly notifies the applicant that no costs incurred before the date a contract is entered into should be included in the applicant's estimate of project costs. Moreover, Form MF-103 (April 1951) and Form MF-103 (Revised June 1951) both carried the caption, "Application for Aid for an Exploration Project Pursuant to Mineral Order 5, Under the Defense Production Act of 1950."

No commitment has been made to the applicant in regard to the allowability of costs incurred before the date of a contract.

In view of the foregoing, it would seem that the applicant was not confused in his understanding of our program by any action on our part.

Sincerely yours,

E. O. Mittendorf

Administrator

Enclosures

CC: DOCKET
CODE 400
FIELD TEAM, REG. # 3
ADM. READING FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

FARutledge/HCRubin/ls
4/7/54

MAR 23 1954

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

Re: Docket No. DMEA 3264 - Tungsten
Golden Scheelite Mining and
Milling Company
Lincoln and Greenhorn Claims
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.

A memorandum by Mr. P. W. Guild, U. S. Geological Survey, dated March 18, 1954, is enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

APPROVED:

J. H. Hedges

Member, Bureau of Mines

D. M. Larrabee

Member, Geological Survey

cc: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMM.
FT, REG. III
P. W. GUILD, USGS
R. W. GEEHAN, USBM

JHopkins/ls
3/19/54

P.S. -- If you recommend a contract, please (1) advise us whether Mr. Bartels or the Golden Scheelite Mining and Milling Company will be the Operator; (2) obtain from the Operator a corresponding assignment of the lease from the lessees, F.J. and H.A.Bartels; and (3) make sure that the contract includes sufficient land to protect the Government's interest.

400

MAR 23 1954

Hon. Guy Cordon
United States Senate
Washington 25, D. C.

My dear Senator Cordon:

Reference is made to the telephone inquiry from your office on March 5, 1954, concerning the application submitted by the Golden Scheelite Mining and Milling Company for exploration assistance on the Lincoln and Greenhorn mining claims, Humboldt County, Nevada (Our Docket No. DMEA 3264 - Tungsten).

This application is being referred to the DMEA Field Team, Region III, for a field examination of the property. Because of your indicated interest in this application, we shall keep you informed of its progress.

Sincerely yours,

C. O. Mitchelmore

Administrator

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

JHopkins/ls
3/19/54

MAR 23 1954

Mr. Fred J. Bartels
Golden Scheelite Mining and Milling Co.
1072 J Street
Springfield, Oregon

Re: Docket No. DMEA 3264 - Tungsten
Lincoln and Greenhorn Claims
Leonard Creek Ranch
Humboldt County, Nevada

Dear Mr. Bartels:

Your application for assistance in exploring a tungsten occurrence on the Lincoln and Greenhorn mining claims, Leonard Creek Ranch, Humboldt County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Room 1012, Flood Building, 870 Market Street, San Francisco 2, California, for further consideration and a field examination of the property.

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

We wish to acknowledge receipt of four copies of Form MF-203, Owner's Consent to Lien, which were mailed under separate cover.

Sincerely yours,

C. O. Mittendorf

Administrator

cc: DOCKET
FT, REG. 3
CODE 400
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/19/54

400

11:10 a.m. - March 5, 1954

MEMO for the File:

Re: Docket No. DMEA 3264 - Tungsten
Golden Scheelite Mining & Milling Co.
Lincoln & Greenhorn claims
Humboldt County, Nevada

A secretary in Senator Guy Cordon's office phoned to say that a letter had been received by that office concerning an exploration loan - DMEA 3264; that the Senator's office was entirely unfamiliar with handling of such loans, etc., and she wondered what the procedure might be and whether we could arrange to notify the Senator's office of any action we might take on the application.

She stated further that the applicant had indicated the application was mailed to Washington on February 22 and was acknowledged by DMEA on February 25--amazingly swift action.

I told the secretary that at the moment DMEA was awaiting advice from both the Bureau of Mines and Geological Survey commodity divisions as to whether their files contained any information of previous examinations of, or geologic indications of tungsten on, the claims in question. I explained that undoubtedly such information would be supplied us within the next week or so, and based upon the study of the application and all data, a field examination might be ordered; that, of course, any exploration aid would await results of any such examination if ordered. However, we would glady inform the Senator's office of whatever action is taken in processing of the application.

Letha Scott

402

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

March 18, 1954

Memorandum

To: W. S. Martin, DMEA

From: P. W. Guild, U.S. Geological Survey

Subject: DMEA Docket 3264 - Tungsten
Golden Scheelite Mining and Milling Co.
Leonard Creek Ranch via Winnemuca, Nevada

Comments: The Geological Survey has no information on this specific deposit or area. Tungsten mineralization is known to occur north of Bartlett Peak, however, nearer the Oregon border, and the geologic setting seems to be favorable. The applicants appear to be intelligent men with backgrounds that should fit them for exploration of the type proposed, and the application is well prepared. Though it is out of my field, I would question whether a modest program involving nine laborers needs both a General Manager and an Assistant Manager drawing about one-third of the total payroll. Some of the equipment sounds a little elaborate to me also. A lot of commercial assays can be made for the $1,000 proposed for laboratory equipment and supplies.

More adequate maps are needed to show details of the proposed adit, and especially of the drilling objectives.

Recommendation: Refer the application to the Field Team for examination.

cc: (3) to WSMartin

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 25 1954

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 25 1954

Until notified address
Fred J. Bartels, 1072-"J" Street, Springfield, Oregon

SPRINGFIELD, OREGON

FEBRUARY 1954

Defense Minerals Administration
Department of Interior
Washington 25. D.C.

Gentlemen:

Herewith is an application for aid in an exploration project, pursuant to DMEA order 1, under the defense production act of 1950, as amended.

The application comprises: (1) filled-in regulation form MF-103 with 6 attached sheets. (2) recorded copy of lease and option to buy, (3) maps of mining claims which show location where work will be done, (4) assay sheets and return from six tons sample shipped to Getchell Mill, Red House, Nevada, (5) map showing accessibility, (6) seven pictures with identification.

Other information will be furnished at your request. Personal conference can be arranged if you so desire.

It is urgently desirable that early action be taken upon the exploration project request as soon as possible, for if the amount of ore which it is anticipated can be developed, production can be had by fall, which production will add to the tungsten supply in this demand time for tungsten.

The Golden Scheelite Mining and Milling Co., address when operating is (Leonard Creek Ranch) Via Winnemucca, Nevada. Until notified please address me personally at 1072 "J" Street, Springfield, Oregon.

Very truly yours,

Fred J. Bartels

Fred J. Bartels

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED 25 1955

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. 3264
Metal or Mineral Tungsten
Date Received
Estimated Cost $46,310
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: Golden Scheelite Mining and Milling Co. *
Leonard Creek Ranch Via Winnemucca, Nevada Humboldt Co.
Until notified, Address 1072-J.-Street, Springfield, Oregon
1. (b) Corporation-organized under the laws of Nevada

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

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

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

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 page 1 attached

(*b*) State any mine name by which the property is known. Lincoln and Greenhorn Groups.

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

(*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.

16—66551-1

* Formal organization of this corporation is in process and will be completed proir to contract date.

3

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

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

(*c*) The work will start within 20 days and be completed within five months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [X] 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 Feb. 22, 1954

Golden Scheelite Mining and Milling Co
(Applicant)

By Fred J. Battls
Richard O. Eymann
Frederick Rellinger

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

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - address: 1072 "J" Street
Springfield, Oregon, Care Fred J. Bartels

1. Name of applicant:

(c) President and General Manager - Fred J. Bartels
1072 "J" Street, Springfield, Oregon
Vice President and Assistant Manager - J. R. Thompson
1558 East 3rd Street, Bend, Oregon
Secretary-Treasurer - Richard O. Eymann
Star Route, Mohawk, Oregon
Attorney - Edward C. Harms
U.S. National Bank Building, Springfield, Oregon
Director - Frederick Billings
539 E. 11th Avenue, Eugene, Oregon

3. Applicant's property rights:

(a) Lincoln No. 1 - Book 5 of notices page 119.
Lincoln No. 2 - Book 5 of notices page 198.
Lincoln No. 3 - Book 5 of notices page 198.
Lincoln No. 4 - Book 5 of notices page 230.
Greenhorn No. 1 - Book 5 of notices page 173.
Greenhorn No. 2 - Book 5 of notices page 197.
Greenhorn No. 3 - Book 5 of notices page 197.
Humbolt County Courthouse, Winnemucca, Nevada.

4. Physical description:

(a) A surface open pit 50 feet in length was made by us. The pit is 15 to 20 feet in width, and half of the pit is 20 feet deep. In doing this work a vein which cuts the older tungsten bearing tactite was opened up. The vein in the bottom of the pit is 14 feet in width. When the hanging wall is reached it appears the vein should be 19 feet in width. The vein has been driven on for a distance of 25 feet and all of the vein taken out to the surface. A winze 9 feet in depth has been sunk in the floor of the pit. Through the entire exposed pit area the ore minerals are very evenly distributed in the vein and tactite mass.

All of the work was done by us.

All openings are accessible for examination.

(b) A 6 ton sample was taken over the pit area and shipped to the Getchell Mine, results (0.71% WO_3)

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 "J" Street
Springfield, Oregon, Care Fred J. Bartels

4. Physical description (continued):

(c) The Scheelite occurs along a granodiorite-lime rock contact. In thin section under a microscope the rock is seen to be a lime silicate metamorphic rock consisting chiefly of diopside (one of the pyroxenes) quartz, magnatite, scheelite and a little pyrite. The scheelite appears to have come in after the diopside. There is considerable massive epidote present. The geologic structure, and the rock has been very favorable for the deposition of scheelite therein.

See photo copies of original sheets attached. Signature on Abbot A. Hanks which did not photograph is signed by Martin P. Quist. In addition an assay by Eugene L. Hoagland dated November 19, 1953, requested by Kenneth Watkins, is presently not available to be included in this report. This sample cut from bottom of shaft sunk in floor of large surface open pit. Shaft 7' deep. Result of analysis, Tungsten WO_3 - - 3.59%.

(d) Access roads: From Winnemucca, Nevada to Quinn River Crossing is 70 miles, all of this distance is a good paved road. From Quinn River Crossing to the mine on the slopes of Bartlett Peak is 28 miles. 23 miles is a good gravel road, the next 4 miles is passable, but needs work, 1 mile at the mine needs re-building. See map attached.

(e) Experienced manpower is available at Winnemucca, Nevada.

Material, supplies and equipment available at Winnemucca, Nevada.

Water supply: There are two good streams of good water which flow from the Black Rock Range across our property, so water supply is ample for all purposes.

Power: Will be necessary to generate power at property.

5. Exploration project:

(b) We propose driving an initial tunnel 150 feet in length which will have backs of 77 feet under the pit; run a raise to the bottom of the pit which would prospect the ground, and also serve as an air hole.

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 "J" Street
Springfield, Oregon, Care Fred J. Bartels

5. Exploration project (continued):

(b) continued - Up the hill about 125 feet from the large pit an open cut has 6 feet in width of commercial tungsten ore. We propose to continue the tunnel another 150 feet which will give better than 150 feet backs between tunnel and open cut.

In addition to the tunnel work we intend to do 800 feet of core drilling.

See pictures of open pit, ore piles and place faced up for start of tunnel.

(d) Experience: Fred J. Bartels has had college training in geology, mining and milling and has made that a life work, particularly with copper, lead, zinc and tungsten. For three terms assistant to Dr. G. E. Goodspeed, geology, University of Washington.

J. R. Thompson has had much mining experience, and is an all around mechanic.

Richard O. Eymann holds Masters Degree in Business Administration and past seven years employed by Weyerhaeuser Timber Company as timekeeper, accountant, and employemnt manager.

Edward C. Harms is attorney and mayor of Springfield, Oregon.

6. Estimate of cost:

(a) Independent contracts:

(1)	Core drilling - 800 feet at $8.00 per foot.	$ 6,400.00
(2)	Road building and repair. Bulldozer operation 8 days @ $12.50 an hour.	800.00
	Total Independent Contracts	$ 7,200.00

(b) Labor, supervision, consultants:

(1)	Miners - 3 in number, 78 work days each. Rate $16.00 per day	$ 3,744.00
(2)	Muckers- 6 in number, 78 work days each. Rate $14.50 per day	6,786.00
(3)	Cook - 1 in number, 3 months Rate $300.00 per month	900.00

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 "J" Street
Springfield, Oregon, Care Fred J. Bartels

6. Estimate of cost:(continued)

(b) continued

(4) General Manager - 3 months @ $900.00 per month	$ 2,700.00
Assistant Manager - 3 months @ $800.00 per month	2,400.00
All engineering and geological work will be done by manager and assistant manager	
Total Labor, Supervision, Consultants	$16,530.00

(c) Operating materials and supplies:

Powder - 3000 lbs at 22¢	$ 660.00
Caps, blasting - 15 boxes @ $2.70 per	40.50
Fuse - 3- 3000 ft. rolls @ $25.00	75.00
Propane gas for cookhouse and assay office	78.50
Gasoline - 2000 gals. @ 26¢	520.00
Oil, motor - 55 gals. @ 86¢	47.30
Oil, Jackhammer - 10 gals. @ 90¢	9.00
Oil, Compressor - 10 gals. @ 82¢	8.20
Kerosene - 53 gals. barrel - 2	27.40
Oil, Diesel - 500 gals. @ 14¢	70.00
Pipe - 1" black - 500 ft. @ $21.94 air line	109.70
Pipe - 1¼" black - used 2000 ft. for pumping water to mine	280.00
Pipe - ½" galv. new - 100 ft. @ $13.72 per 100 for cookhouse and mine.	137.20
Valves and fittings	50.00
Cookhouse utensils	150.00
Additional cookhouse supplies	200.00
Small tools, wrenches, taps, dies, picks, shovels, etc.	350.00
Mine timbers - stulls, lagging, etc. 6 M @ $90.00 per M	540.00
Wiring, fixtures, etc.	500.00
Bits, Carset 2- 1¼" I.R. @ $13.75	27.50
Bits, Carset 2- 1 3/8" @ $15.60	31.20
Bits, Carset 2- 1½" @ $17.35	34.70
Drill steel -3 pcs. 7/8 x 3' @ $6.60	19.80
Drill steel - 4 pcs. 7/8 x 4' @ $6.60	26.40
Drill steel - 4 pcs. 7/8 x 6' @ $8.25	33.00
Drill steel - 4 pcs. 7/8 x 2' @ $5.00	20.00
Total Materials and Supplies	$ 4,045.40

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 "J" Street
Springfield, Oregon, Care Fred J. Bartels

6. (Continued) Estimate of cost:

(d) Operating equipment:

(1) Purchases

Jackdrill, Ingersoll-Rand JR-38	$ 665.00
Air hose 2- 3/4" 50 ft. lengths	56.00
Steel blasting sheets	60.00
Rails, used 700 lineal ft. with 2- 3/4 ton used mine cars quoted.	300.00
Water pump, Pacific Marine-gasoline, new with tools, for pumping water to mine.	411.50
Diesel Light Plant, Witte 300 Watt A.C., used short time only. Quoted	400.00
Butane Range - Cookhouse	200.00
Refrigerator - 11.8 cu. ft. Servel 1953 gas, new.	335.00
Assay equipment and supplies	1,000.00
Mineral light, mine type	110.00
Willy Station Wagon - four wheel drive	2,641.53

(2) Use allowance

Compressor-Air, Ingersoll-Rand 265 C F M @ $300.00 per month	$ 900.00
Total Operating Equipment	$ 7,079.03

(f) New buildings, improvement, installations:

Lumber, labor and other material to build cookhouse, bunkhouse, and small assay office Estimated Total	$ 6,000.00

(g) Miscellaneous:

Maintenance of compressor, jackhammer, drills bits, etc. Estimated	$ 200.00
Analytical work will be done by general manager.	
Accounting for three months	900.00
Social security	330.80
Unemployment insurance	496.20
Workmans compensation	1,323.20
Total Miscellaneous	$ 3,250.20

Golden Scheelite Mining and Milling Co.
Address: Leonard Creek Ranch, Via
Winnemucca, Nevada

FORM MF-103

Until Notified - Address: 1072 "J" Street
Springfield, Oregon, Care Fred J. Bartels

6. Estimate of cost: (Continued)

(h) Contingencies - Estimated 5% $ 2,205.23

Estimate of Costs - Summary

(a)	Independent Contracts	$ 7,200.00
(b)	Labor, Supervision, Consultants	16,530.00
(c)	Operating materials and supplies	4,045.40
(d)	Operating equipment	7,079.03
(e)	Rehabilitation and repairs	
(f)	New buildings, improvements, installations	6,000.00
(g)	Miscellaneous	3,250.20
(h)	Contingencies	2,205.23
	Total	$46,309.86

7. Furnishing of share of cost:

(a) Use allowance. See answer to Question 6-d-(2)
Use of compressor $ 900.00

(b) Money - Furnished by stock holders

MINING LEASE AND OPTION

THIS AGREEMENT, made and entered into this 11th day of May, 1953, by and between PETE CACHENAUT, a single man of Felds, Oregon, and ALEX DUFURRENA and JULIA DUFURRENA, his wife, of Winnemucca, Nevada, hereinafter referred to as the LESSORS, and FRED J. BARTELS and HARRIETT A. BARTELS, of Springfield, Oregon, hereinafter referred to as the LESSEES.

WITNESSETH:

That for and in consideration of the covenents, agreements and stipulations herein contained on the part of the said Lessees to be paid, kept and faithfully performed, the Lessors do hereby lease, demise and let unto said Lessees the following described property, to-wit:

All those certain lode mining claims and pieces or parcels of mining ground situated in the County of Humbolt, Nevada, Mining District unknown. Said mining claims and mining ground being described as follows:

GREENHORN GROUP.

Greenhorn No. (1) Greenhorn No. (2) Greenhorn No. (3) Unrecorded.

LINCOLN GROUP

Lincoln No(1) Lincoln No. (2) Lincoln No. (3) Lincoln No. (4) Unrecorded.

These mining claims are located about one half mile in a Southerly direction from Bartlett Peak.

Also all right and title of the parties of the first part to all water rights, ditches, rights of way, and other easements and rights owned or possessed by Lessors and connected with or appertaining to the aforesaid mining claims.

To have and to hold the aforesaid premises, easements and rights unto said Lessees for a period of six years, from the date of this lease, May 11, 1953, to and including May 11, 1959, and Lessors do hereby give and grant unto Lessees during the term of this lease the sole and exclusive right and privilege to prospect, develop and work said premises and to mine, extract, sell and dispose of precious or valuable metals and minerals therefrom, and to build and operate a mill and power plant thereof, and to use said premises and construct improvements thereon for all purposes reasonably connected with the foregoing, under the following terms and conditions, to-wit:

(1) The Lessees agree to pay the Lessors the sum of $500.00 upon the signing of this lease. The receipt of which is hereby acknowledged.

The Lessees further agree to pay to the Lessors, thirty days (30) from the signing of this agreement, $200.00.

The Lessees further agree to pay to the Lessors, sixty (60) days from the signing of this agreement, $200.00.

That the Lessees shall and will pay and deliver unto the said Lessors ten per cent (10%) of the gross value of all gold, silver, and all other minerals produced and sold from said property during each and every calendar month by the said Lessees, the said royalties to be paid on or before the 10th day of the following month, for such ore produced and sold during the previous calendar month.

If said royalty payments are less than One Hundred Dollars ($100.00) in any one calendar month, then the Lessees shall pay to the Lessors the guaranteed minimum rental of One Hundred Dollars ($100.00) per month. Such payments to begin ninety (90) days from the signing of this agreement, or sooner if ore is produced and sold.

It is fully understood and agreed by and between Lessors and Lessees that Lessees shall start work on said mining claims above described on or before sixty (60) days from the signing of this Agreement, and Lessees shall diligently persue their mining operations in a good and miner like manner at all times during the terms of this lease, except when the operation of the mining claims is impracticable due to adverse weather conditions or said production or operation is prohibited by the laws of the United States or the State of Nevada, or the laws, rules and regulations of any bureau or department thereof.

The Lessees shall perform all assessment work on the above described mining claims on or before the first day of June each year, or during the life of this Agreement; file affidavit as required by law, and furnish copy to Lessors.

(2) Lessors covenant and warrant Lessees that Lessors are the lawful owners of the said leased premises by virtue and prior and valid locations (subject only to the usual paramount title in the United States as to mining locations), and that Lessors are entitled to the possession of the same at this date and that Lessors will protect Lessees in the peaceable enjoyment and possession of said premises and the right to work the same and to remove all materials and minerals therefrom during the term of this lease as against all claims or demands by any third person, whomsoever, not arising from any default or neglect of Lessees.

The Lessors shall have the right at all reasonable times to inspect the premises and work being done by the Lessees.

(3) The Lessees reserve the right to surrender the premises hereby leased and to terminate this lease at any time upon giving fifteen (15) days written notice to the Lessors of their intention to so do. Upon giving of said notice this lease shall be terminated and Lessees shall be released from all further obligations hereunder except any royalty payments which may be owing to the Lessors.

(4) Lessees covenant and agree to keep all labor and material bills paid promptly when the same fall due and not allow the same to become delinquent in any manner whatsoever. Lessees further covenant and agree to pay all Social Security taxes, State Industrial Accident Commission taxes and all State and Federal withholding taxes promptly when the same fall due and not allow said taxes to become delinquent.

(5) Provided always, should the Lessees default in any of the conditions of this lease and option upon receiving from the Lessors a written notice of such violations shall either correct the same in thirty (30) days or surrender peaceable possession to Lessors.

(6) Should this lease and option be terminated for any cause by either party, the Lessees shall have the right to remove all machinery and buildings placed on the premises by said Lessees. It is understood and agreed by the parties to this agreement that any machinery or buildings placed on the premises, no matter how attached, shall be deemed as not becoming a part of the realty. The Lessees shall have ninety (90) days to remove all buildings, machinery and equipment from the premises. Except that all pipe, timber, track and ventilation blower line installed underground shall become the property of the Lessors and they shall not be removed upon the termination of this lease.

OPTION TO BUY

It is understood and agreed by the Lessors and Lessees that during the life of this lease the Lessees shall have the right to purchase the above described mining claims for a total purchase price of $50,000.00. It is understood by the parties to this agreement that any royalties, or any other payments made to the Lessors by the Lessees, shall apply on the total purchase price and be deducted therefrom.

Upon the payment of the full purchase price by the Lessees the Lessors agree to furnish a good and sufficient title to the Lessees.

This lease and option is transferrable or assignable.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals this 1st day of June, 1953.

Pete Cachenaut (SEAL)
Pete Cachenaut

Alex Dufurrena (SEAL)
Alex Dufurrena

Julia Dufurrena (SEAL)
Dufurrena

Fred J. Bartels (SEAL)
Fred J. Bartels

Harriett A. Bartels (SEAL)
Harriett A. Bartels

Mohawk
agreement

(2)

Recorded at request of
Fred J. Bartels
Feb. 6, 1954 at 5:55
Min. past 10 o'clock P.M.
Book 8 page 431
Official Records
Records of Humboldt Co., Nev.
L. L. Germain
County Recorder

By _____ Deputy

(C)

1072 E. First
Springville, Calif.

Harriet A. Bartels

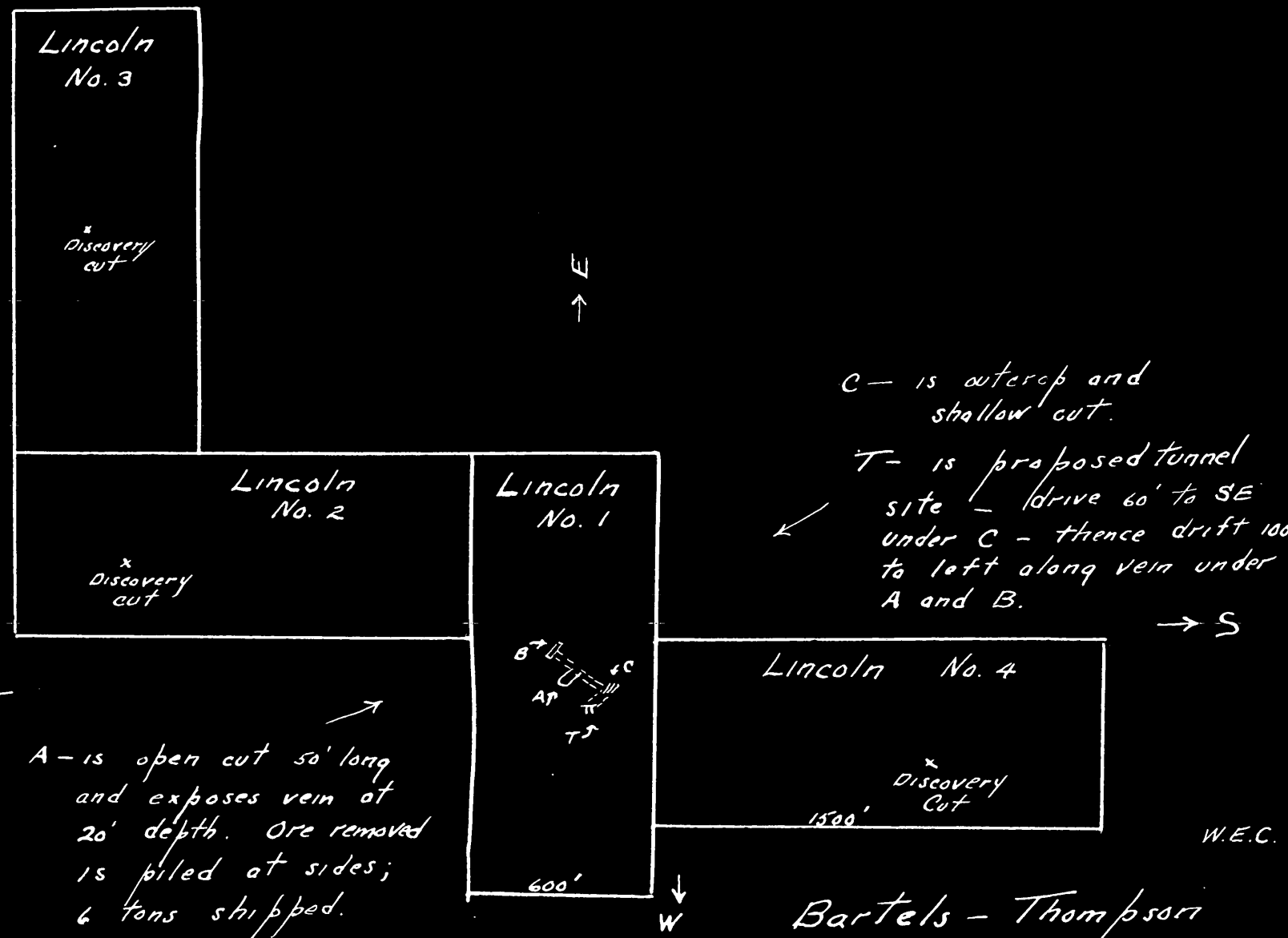
STATE OF NEVADA,)
) SS.
COUNTY OF HUMBOLDT.)

On this 10th day of June, A. D. 1953, personally appeared before me, a Notary Public in and for said County and State, PETE CACHENAUT, ALEX DUFURRENA, JULIA DUFURRENA and FRED J. BARTELS, known to me to be the persons described in and who executed the foregoing instrument, who acknowledged to me that they executed the same freely and voluntarily and for the uses and purposes therein mentioned.

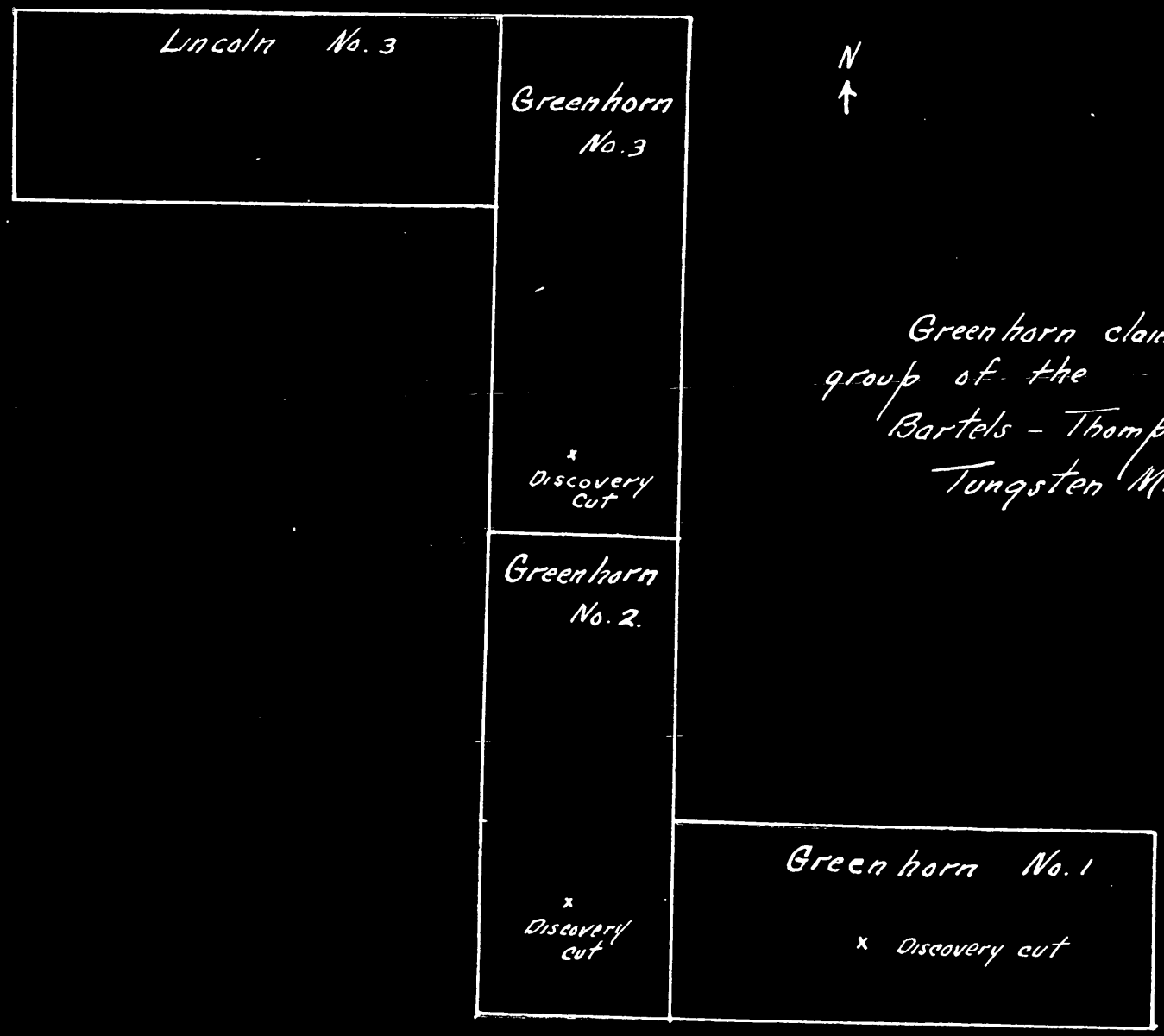
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at my Office in said County and State, the day and year in this Certificate first above written.

James A. Calhoun
Notary Public in and for said County and State.

My commission expires:
February 28, 1955.



Bartels – Thompson Tungsten Mine



Greenhorn claim group of the Bartels - Thompson Tungsten Mine

W.E.C.

EUGENE L.HOAGLAND ASSAYER
7018 S.E.17th Ave
PORTLAND, 2 OREGON
June 1, 1953

Sample Received from Kenneth Watkins
Received. May 27,1953

* Sample marked	Results of Analysis
	Tungsten (WO_3)
Nevada No.1	0.14%
Nevada No.2	2.71%

E L H

Note: greater part of color seen in no. 1 under the black light is probably powellite.

First samples I took

GETCHELL MINE INC.

Red House, Nevada

Custom Ore Settlement Sheet

Received of: Kenneth O. Watkins
F. Bartels
J. Thompson
Leonard Creek Ranch
Winnemucca, Nevada

Date Rec'd 9-30-53

Shipper's Mark

Lot No.

By GETCHELL MINE INC.

1	Trucks weighing	19,040	Gross Lbs.
4.3	% Moisture	6,380	Tare Lbs.
0.71	% WO_3	12,660	Net Wet Lbs.
6.058	Net Dry Tons	544	Moisture Lbs.
4.301	Contained STU WO_3	12,116	Net Dry Lbs.

PAYMENT:

Pay for 80% contained STU WO_3 3.441 at $ 46.00 @ * $ 158.29

LESS CHARGES:

Treatment of 6.058 Net Dry Tons at $ 8.00 @ * $ 48.46

Sampling & Assaying $ 10.00

$

TOTAL $ 58.46

NET PROCEEDS $ 99.83

99.83

* (equals)

FORM A-8

REPORT OF ASSAY

ABBOT A. HANKS, INC.

ASSAYERS, CHEMISTS, ENGINEERS
624 SACRAMENTO STREET
SAN FRANCISCO.

November 11, 1953

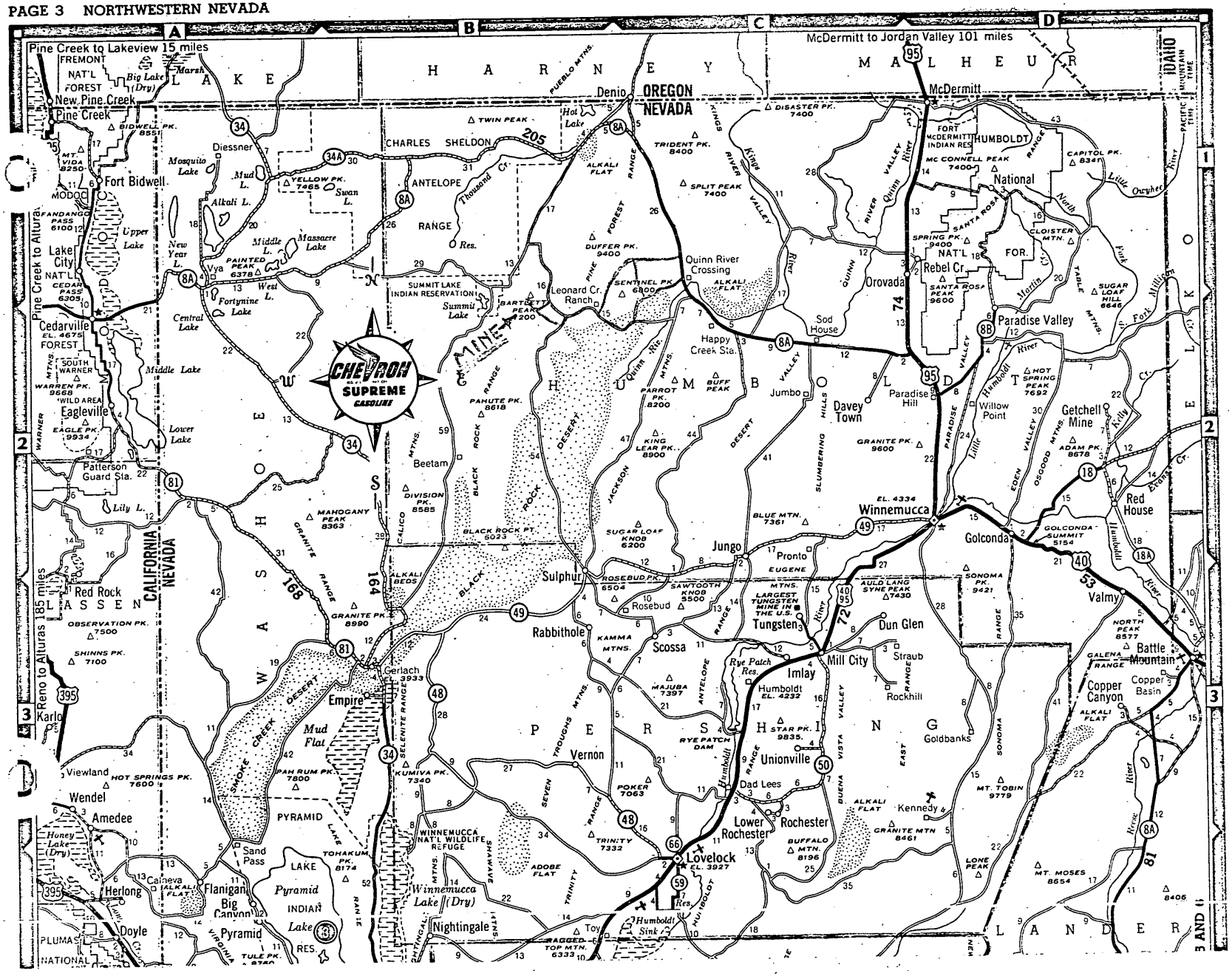
DEPOSITED BY Springfield Sand & Gravel Co.
P. O. Box 216
Springfield, Oregon

SAMPLE OF O R K

Lably. No.	Mark	GOLD, per ton of 2,000 lbs. Troy Ounces	GOLD, per ton of 2,000 lbs. Value @ $35.00 oz.	SILVER, per ton of 2,000 lbs. Troy Ounces	SILVER, per ton of 2,000 lbs. Value @	Percentages
					$	TUNGSTIC OXIDE
61033	Floor #1 11' Wide					0.81 %
61154	#2					0.25
55	Face Sample 90" Wide					0.71

ABBOT A. HANKS, INC.

bob


Pine Creek to Lakeview 15 miles
McDermitt to Jordan Valley 101 miles
OREGON
NEVADA
IDAHO
CALIFORNIA
NEVADA
L A K E
H A R N E Y
M A L H E U R
H U M B O L D T
P E R S H I N G
L A N D E R
W A S H O E
L A S S E N
Denio
McDermitt
New Pine Creek
Pine Creek
Fort Bidwell
Lake City
Cedarville
Eagleville
Patterson Guard Sta.
Red Rock
Karlo
Viewland
Wendel
Amedee
Herlong
Doyle
Flanigan
Big Canyon
Pyramid
Sand Pass
Empire
Gerlach
Nightingale
Beetam
Sulphur
Rabbithole
Rosebud
Scossa
Vernon
Lovelock
Winnemucca
Jungo
Pronto
Tungsten
Imlay
Humboldt
Unionville
Dad Lees
Lower Rochester
Rochester
Mill City
Dun Glen
Rockhill
Goldbanks
Kennedy
Golconda
Valmy
Battle Mountain
Copper Canyon
Copper Basin
Red House
Getchell Mine
Paradise Valley
Paradise Hill
Willow Point
Davey Town
Jumbo
Orovada
Rebel Cr.
National
Quinn River Crossing
Leonard Cr. Ranch
Happy Creek Sta.
Sod House
Diessner
Vya
Denio
Hot Lake
Fort Bidwell
Upper Lake
Middle Lake
Lower Lake
Central Lake
Fortynine Lake
Summit Lake
Mud L.
Alkali L.
Swan L.
Lily L.
Honey Lake (Dry)
Pyramid Lake
Winnemucca Lake (Dry)
Humboldt Sink
Mud Flat
Chevron Supreme Gasoline

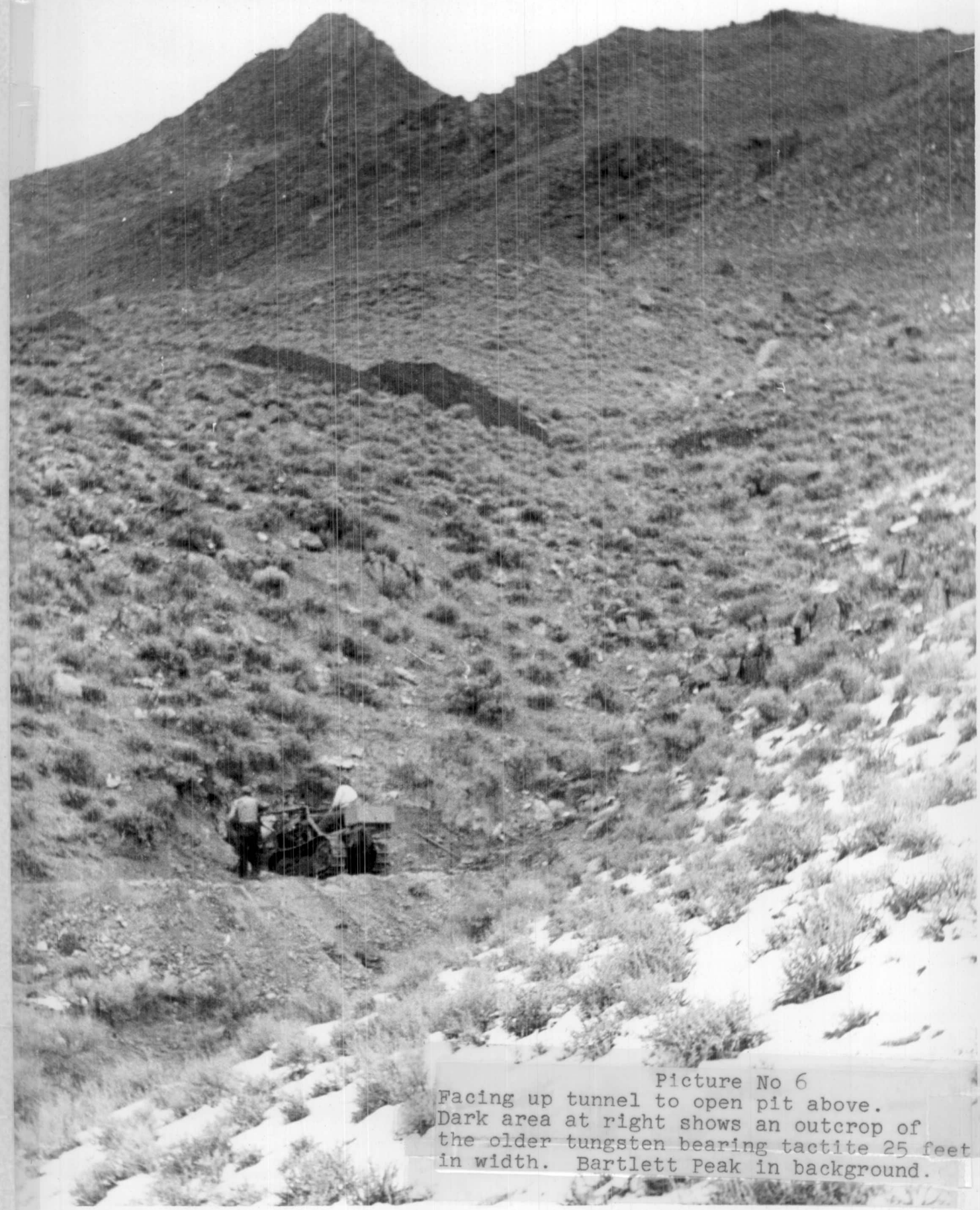
Picture No 1
Surface open pit showing piled tungsten ore. Upper cut about 125 feet above pit shows six feet in width of commercial ore.

Picture No 2
Surface open pit and piled tungsten ore.

Picture No 3
Mucking out tungsten ore from surface pit. Vein at bottom of pit is 14 feet in width, and when hanging wall is reached estimate vein will be 19 feet in width.

Picture No 4
Mucking out tungsten ore. Through the entire vein area exposed, the ore minerals are very evenly distributed in the vein and tactitic mass.

Picture No 5
Facing up for start of proposed tunnel.



Picture No 6
Facing up tunnel to open pit above.
Dark area at right shows an outcrop of
the older tungsten bearing tactite 25 feet
in width. Bartlett Peak in background.

PICTURE NO. 7

Temporary rented house 5 miles from mine

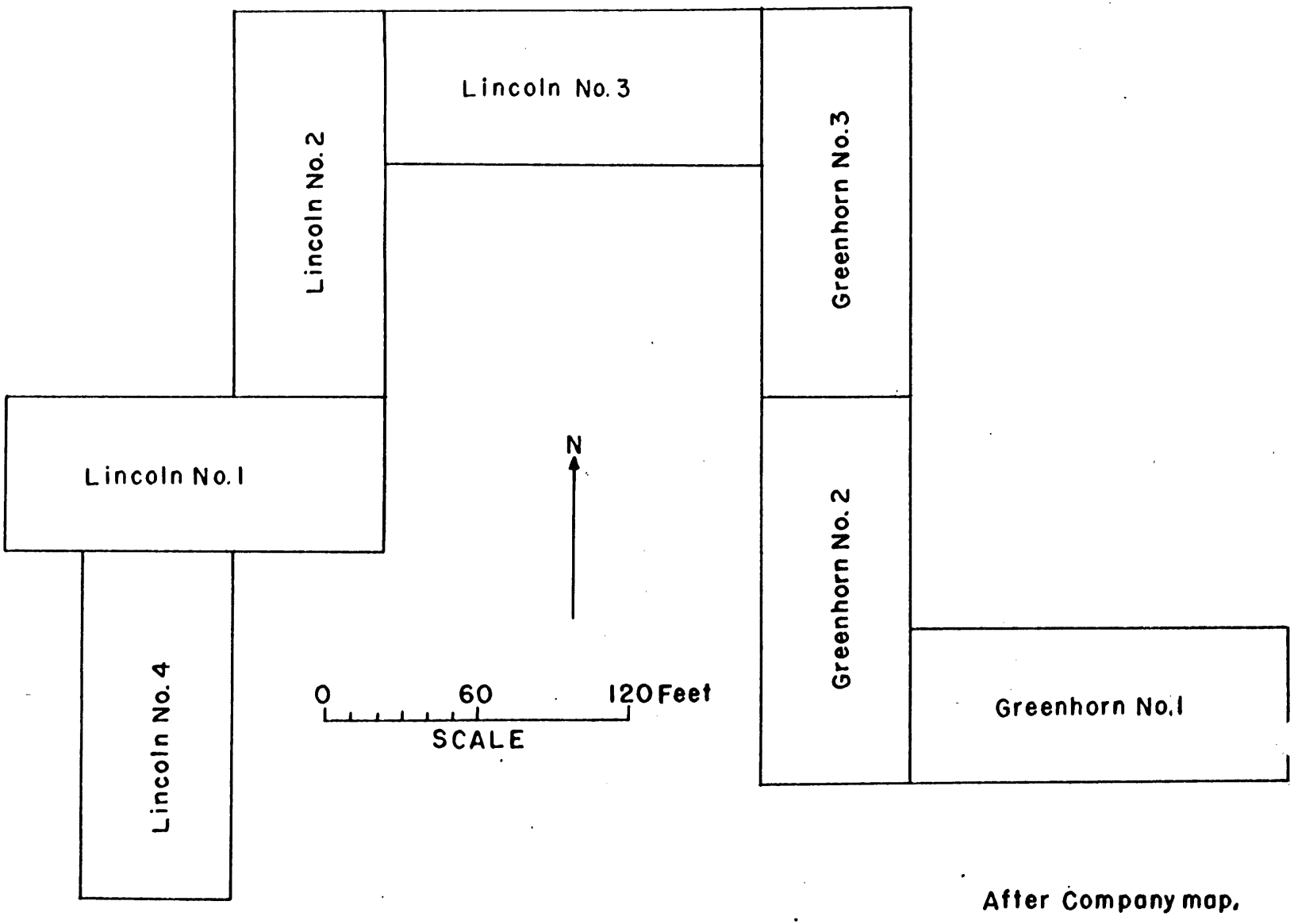
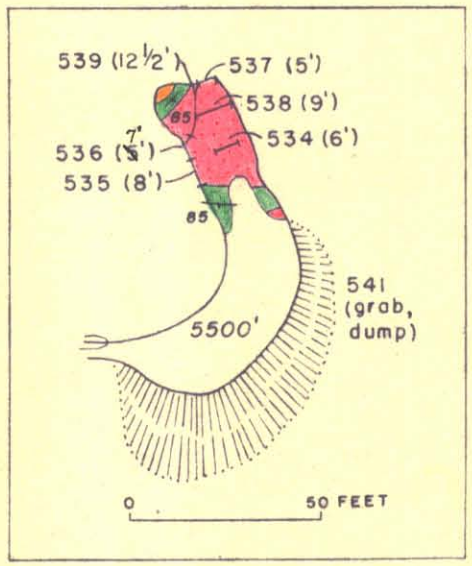


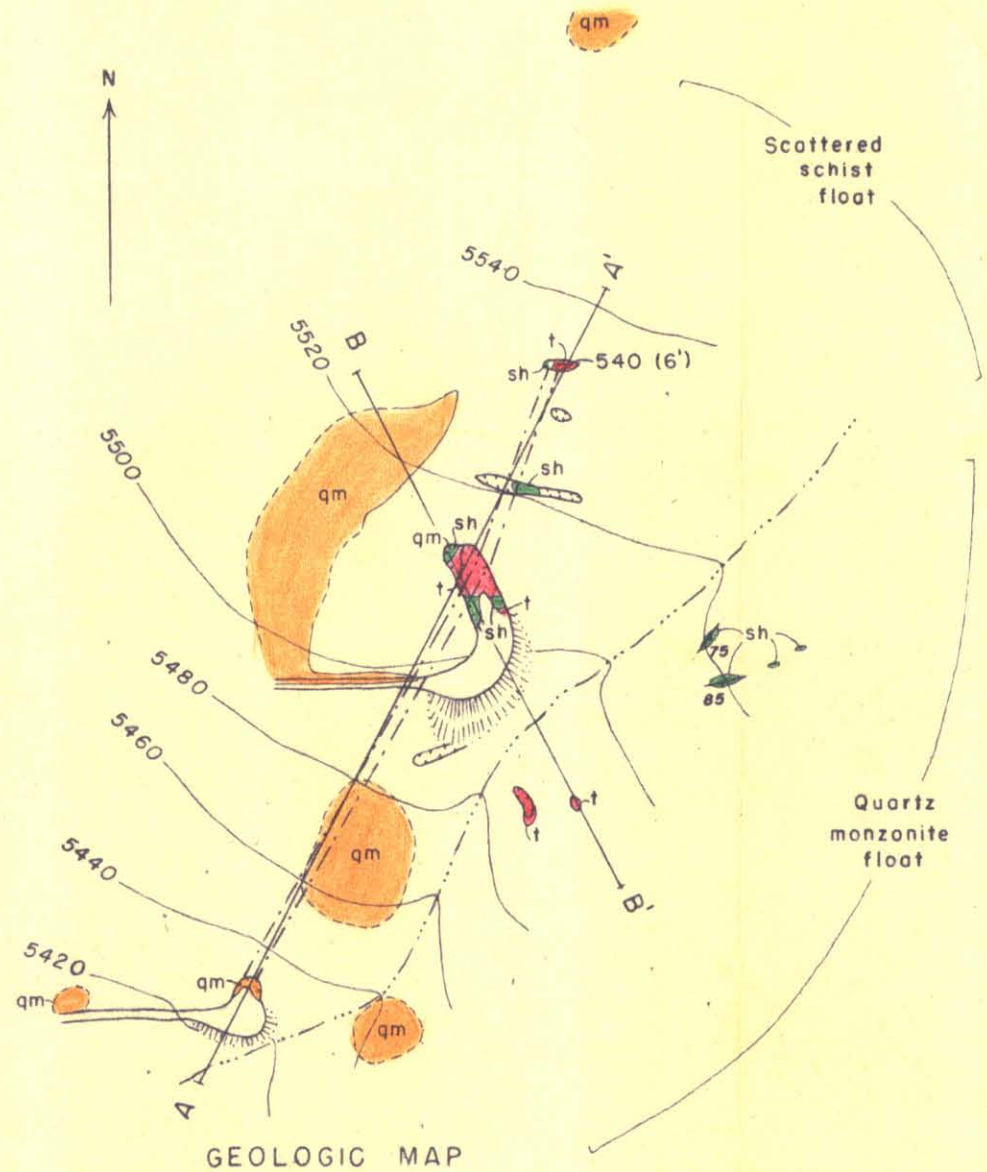
Figure 3 - Claim map, Golden Scheelite Mining & Milling Co., Humboldt County, Nevada.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3264
(TUNGSTEN)

SAMPLE NO.		% WO_3	% Mo
534	6	0.59	0.03
535	8	0.22	0.02
536	7	0.14	<0.01
537	5	<0.01	<0.01
538	9	0.31	0.01
539	12.5	0.22	0.01
540		0.12	0.01
541		0.26	0.01





GEOLOGIC MAP

EXPLANATION

Slope wash

t
Tactite

sh
Schist

qm
Quartz monzonite

Scheelite

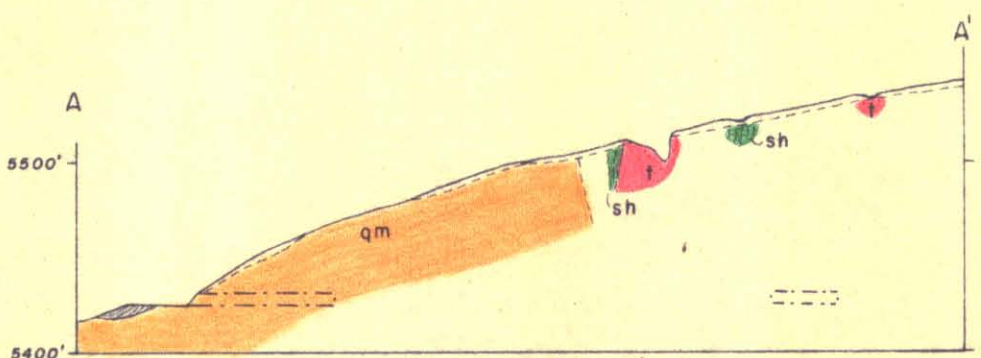
Contact
Dashed where approximately located

85
Strike and dip of schistosity
Probably parallels original bedding

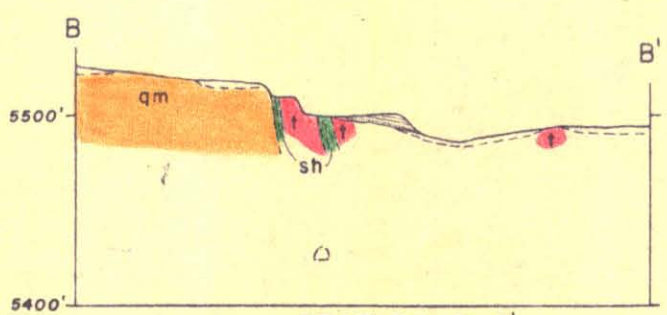
Open cut

Dump

Drift proposed by applicant



SECTION A-A'



SECTION B-B'

Geology by D.C. Ross
April, 1954

GOLDEN SCHEELITE MINE, HUMBOLDT COUNTY, NEVADA

100 0 100 200 FEET

Figure 2.