DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3313

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Exploration Assistance

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Cys to USBM & USGS

Routing Slip

To:	400	Date	4/16/54
To:	Oper Com	Date	4-30-54
To:	Oper Com	Date	9-17-54
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400

SEP 17 1954

3312

Mr. Charles E. Lindner
General Delivery
Lemoncove, California

Re: Docket No. DMEA 2313 - Tungsten
Oomph Mine
Inyo County, California

Dear Mr. Lindner:

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

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

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

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

JHopkins/ls
9-15-54

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

September 15, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $4,173.00
Docket No. DMEA 3313 - Tungsten
Charles E. Lindner
Oomph Mine
Inyo County, California

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

The Oomph No. 1 and 2 mining claims are located on the east flank of the Sierra Nevada mountains along an east-trending, steeply dipping contact between white, thin-bedded calc-hornfels on the north and hornblende biotite granodiorite on the south.

Tactite is developed in the calc-hornfels at widely spaced intervals along the contact with granodiorite. Much of the tactite is scheelite-bearing and when examined in ultraviolet light, appears to contain from 0.50 percent to 0.80 percent WO_3.

The tactite bodies have been explored by means of eight small pits and one 75-foot adit.

The following samples were taken from the property at locations indicated under remarks:

Sample No.	Width, feet	% WO_3	Remarks
S-290	-	0.61	Grab sample of 6 tons - mine ore bin
S-291	2.0	0.06	West drift, Main Adit face
S-292	1.8	0.19	West drift, Main Adit
S-293	2.2	0.37	1st Open Cut
S-294	2.8	0.28	2nd Open cut select
S-295	2.0	0.40	3rd pit-bottom
S-296	4.0	0.79	4th pit
S-297	2.8	0.50	5th pit

The largest exposures of scheelite-bearing tactite are in the two easternmost pits; the longest dimension of ore in each pit is 20 feet. If it is assumed that the ore exposed in the face of the adit level is continuous with that exposed in the east pit, approximately 300 tons of ore can be inferred in this block. In the other scheelite-bearing tactite bodies, by assuming a depth extent of about one-half the longest dimension, less than 300 tons can be inferred.

Because of the small reserve tonnage and the high cost of mining such small, widely separated ore bodies, it is concluded that the amount of ore developed in an exploration program would not be commensurate with the cost, and Government participation in such a program is therefore not recommended. The Field Team recommended denial of the requested exploration loan.

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

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

JHopkins:foc
9-15-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

IN REPLY REFER TO:

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

402

September 15, 1954

Re: DMEA-3313
Oomph Claims
Inyo Co., Calif.
$4,173 - Tungsten

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The applicant requested assistance to drive a drift from the face of the main adit crosscut.

Although total ore reserves may be about 600 tons containing less than 1.0 percent WO_3, the nature of the deposit as small, widely spaced ore pods will not permit a successful or feasible mining operation.

Further exploration cannot reasonably be expected to significantly increase the total reserves on this property.

I concur with the Field Team and recommend the applicant's proposal be denied.

E. L. Newcomb

ELNewcomb:hlm
G-9/15/54

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

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

402

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

August 31, 1954

Memorandum

To: W. B. Martin, Acting Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3313 - Tungsten
Charles E. Lindner
Oomph Mine
Inyo County, California

Reference is made to your letter dated May 3, 1954, referring the subject application to us for review and a field examination.

Attached are the original and three copies of a report entitled "DMEA-3313, Oomph Mine, Inyo County, California, (Tungsten)," by B. H. Sheahan, Mining Engineer, U. S. Bureau of Mines, and D. C. Ross and C. D. Rhinehart, Geologists, U. S. Geological Survey, dated August 24, 1954.

According to the report the tactite bodies have been explored by a few small pits and a 75 foot adit. Their contact extends easterly and westerly for a distance of approximately 300 feet. The scheelite mineralization is not continuous along the contact but is confined to the intersection with narrow favorable beds. A few mineralized beds, a foot to two feet in width, contained 1 per cent WO_3.

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

Exploration on this property is not warranted.

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

Shw OC
9-13-54

Attachment

Copy to: Roscoe Smith, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3313, Oomph Mine

Inyo County, California

(Tungsten)

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

D. C. Ross, Geologist
C. D. Rinehart, Geologist
U. S. Geological Survey

August 24, 1954

EXAMINATION REPORT

Docket No.: DMEA-3313 (Tungsten)

Name and address of applicant: Charles E. Linder
Gen. Del.
Lemon Cove, Calif.

Name and location of property: Oomph Claims
Inyo County, Calif.

SUMMARY

The Oomph claims are located about 14 miles in a straight line southeast of Bishop, California at an altitude of 10,700 feet in section 2, T. 9 S., R. 31 E., M.D.B.&M., Inyo County, Calif. The prospect can be reached from Bishop by way of a steep 21.8 mile dirt road, or from Parchers pack station on the South Fork of Bishop Creek by way of a very steep 1.5-mile trail.

A little soft tactite with scheelite occurs as pods along the contact between granite on the south and calc hornfels on the north. The contact extends easterly and westerly for a distance of about 300 feet. The scheelite mineralization is not continuous along the contact, but is confined to the intersection with narrow favorable beds. A few mineralized beds, a foot to two feet in width, contain 1.0% WO_3 within a few feet of the granite. Ore reserves are very small.

Development and exploration work completed by Mr. Linder, the owner and applicant, for a $4,173.00 DMEA loan, has amounted to a few shallow prospect pits and trenches and a 75-foot adit crosscut with drift,

which intersects the contact 30 feet below the outcrop.

Exploration work proposed by the applicant would include drifting along the contact in search of ore. The rock is fairly soft and all of the work completed to date has been done by hand methods. Mr. Linder, the applicant, is an experienced prospector, miner and stone mason.

Production from the property has amounted to approximately 10 units of tungsten trioxide recovered from 20 tons of ore which has been mined during the past 14 years.

The property was recently examined by an engineer of the Bureau of Mines and by geologists of the Geological Survey on July 21 and 22, 1954.

CONCLUSIONS

The cost of exploration work at the property would exceed the gross profit from ore that might be discovered and mined at the property.

RECOMMENDATIONS

The examining engineer and geologists recommend denial of the requested exploration loan.

TIME SPENT ON PROPERTY

Access roads and trails leading to the property were inspected by the engineer on July 19 and 20, 1954. The property was examined by the engineer and geologists accompanied by Mr. Charles E. Linder, the applicant, on July 21 and 22, 1954.

NAME AND LOCATION OF PROPERTY

The "Oomph Mine" property is located in section 2, T. 9 S., R 31 E., M.D.B.&M., at an altitude of 10,700 feet. The property is situated in the Sierra Nevada mountains, approximately 14 miles in a straight line southeast of Bishop, Inyo County, Calif.

ACCESSIBILITY

The operating season at the property lasts only three months, June 15 to September 15, because of the altitude and severe high Sierra climate.

The property can be reached from Bishop, California by way of a steep winding 21.8 mile dirt road by way of the Peterson mill. The road crosses the north end of Coyote Flat and Coyote Ridge at an elevation of 11,100 feet. A four wheel drive vehicle is required to make the trip. The property can also be reached by way of very steep 1.5-mile trail leading from the South Fork of Bishop Creek (fig. 1).

COMPETENCY OF APPLICANT

Mr. Charles E. Linder, the applicant, submitted a fairly well-prepared docket application. Most of the exploration work conducted at the property was performed in a miner-like fashion by Mr. Linder.

Mr. Linder is a skilled stone mason. He has been employed by the U. S. Forest Service, and has been self-employed at prospecting, mining and construction work for 25 years.

The applicant lacked capital for his share of an exploration loan. Mr. Linder appeared to be an efficient workman. The exploratory workings were cleaned of snow, ice and loose muck, prior to the recent examination of the property.

APPLICANT'S PROPERTY RIGHTS

The property consists of two unpatented mining claims, the Oomph No. 1 and Oomph No. 2, and a 5-acre mill site. These claims were located by the applicant and the assessment work for the fiscal year ending June 30, 1954 has been completed. The property is owned by the applicant. The claims are recorded in vol. 53, p. 598 and vol. 54, p. 90 in the Recorder's Office of the County Courthouse at Independence, Calif.

DESCRIPTION OF PROPERTY

Surface facilities include a 6-by 8-foot tent, and camping equipment at the mill site located 1/4 mile south of the mine. The applicant has constructed a small concentrating plant of about a 3-ton daily capacity. Less than one ton of ore has been milled.

Exploratory workings at the property include three open cuts from 15 to 20 feet in length, four shallow prospect pits from 5 to 12 feet in depth, and a 75-foot crosscut and drift. The work has all been done by hand methods including hand drilling.

The following samples were taken from the property at locations indicated on Plate 2:

Sample No.	Width, Feet	%, WO_3	Remarks
S-290	2.0	0.61	Grab sample of 6 tons - mine ore bin
S-291	2.0	0.06	West Drift, Main adit face
S-292	1.8	0.19	West Drift, Main adit
S-293	2.2	0.37	1st open cut
S-294	2.8	0.28	2nd open cut select
S-295	2.0	0.40	3rd pit - bottom
S-296	4.0	0.79	4th pit
S-297	2.8	0.50	5th pit

GEOLOGY AND ORE DEPOSITS

The prospect is along an east-trending, steeply-dipping contact between white, thin-bedded calc-hornfels on the north and hornblende-biotite granodiorite on the south. The beds strike about N. 30° W. and dip steeply. The calc-hornfels is in the core of a tight anticline and is overlain by a thick unit of mica-quartz schist and quartzite which crops out both to the west and east. Aplitic dikes and sills penetrate the calc-hornfels.

Tactite is developed in the calc-hornfels at widely spaced intervals along the contact with granodiorite (Pl. 2). The tactite bodies are crudely wedge-shaped and are parallel to bedding in the calc-hornfels. The bodies are thickest at the contact with granodiorite and pinch out within a few feet to the northwest. A thin selvage of tactite a few inches thick is present discontinuously between the tactite bodies along the granodiorite contact.

The fresh tactite is generally fine- to medium-grained, contains an abundance of quartz, and is light-colored when compared with "typical"

tactite; pyroxene, epidote, amphibole, and garnet are present in lesser amounts. Much of the exposed tactite is scheelite-bearing and when examined in ultraviolet light, appears to contain from 0.50 percent to 0.80 percent WO_3. Most of the scheelite-bearing tactite is decomposed, friable, and contains much limonite, suggesting the previous existence of sulfides. One tactite body grades into a gossan-like limonite-quartz rock which appears to be a fissure filling.

ORE RESERVES

The tactite bodies have been explored by means of eight small pits and one 75-foot adit. The largest exposures of scheelite-bearing tactite are in the two easternmost pits; the longest dimension of ore in each pit is 20 feet. If it is assumed that the ore exposed in the face of the adit level is continuous with that exposed in the east pit, approximately 300 tons of ore can be inferred in this block. In the other scheelite-bearing tactite bodies, by assuming a depth extent of about one-half the longest dimension, less than 300 tons can be inferred.

In view of the small reserve tonnage and the high cost of mining such small, widely separated ore bodies, the amount of ore developed in an exploration program would not be commensurate with the cost, and Government participation in such a program is therefore not recommended.

EQUIPMENT

Mining equipment at the property:

Item	Condition	Value
1 Blacksmith forge - 6x18	Fair	$100.00

Item	Condition	Value
Blacksmith tools	Fair	$ 50.00
Miscellaneous hand tools	Good	150.00
1 Jackhammer	Fair	250.00
1 Wheelbarrow	Poor	25.00
1 Ore car	Poor	30.00
1 Windlass	Fair	50.00
1 Truck, 4-wheel drive, 1 ton	Poor	500.00

Mill equipment and supplies:

2 Orebins	Fair
1 Jaw crusher, 6" x 8"	Good
1 Belt elevator, 14 feet, 4"x6"	Poor
1 Concentration table (home made)	Poor
1 Gasoline engine, 1-1/2 horsepower	New
1 Pump, 1-inch centrifugal	New
1 Classifier, 12 foot	Fair

PAST OPERATIONS

The Oomph prospect was located by Mr. Linder in 1940 after the discovery of scheelite mineralization. An unsuccessful attempt was made by a leaser to operate the prospect when Mr. Linder was serving in the U. S. Army from 1941 to 1945.

From 1946 to 1952 work at the property included assessment work, road construction, and in 1953 construction of a small mill was started.

Total production has amounted to about 10 short ton units of tungsten trioxide recovered from 20 tons of ore.

MANPOWER, SUPPLIES, ETC.

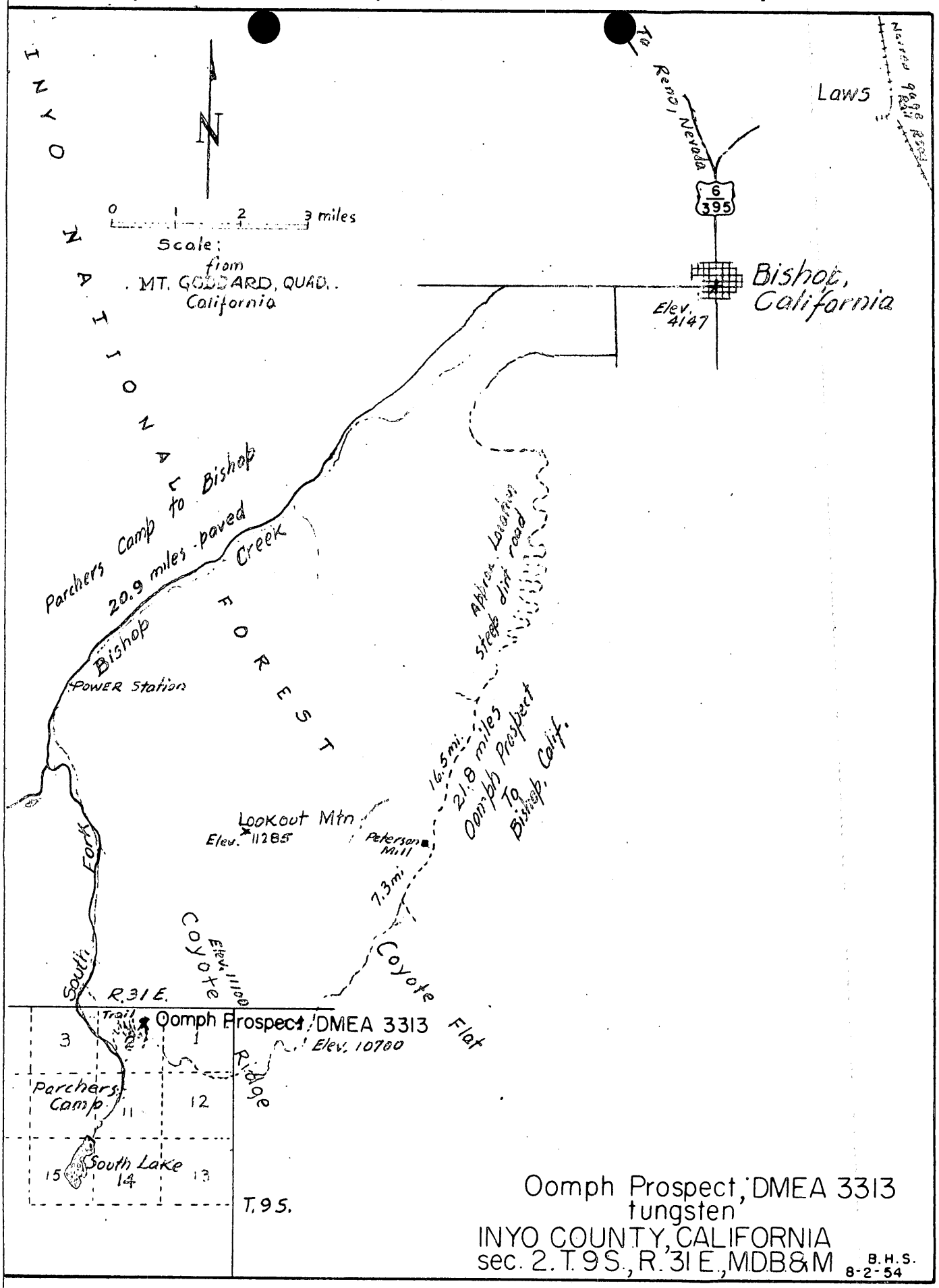
Although no miners have been employed at the property, the estimated wage scale is $17.00 per day. There is sufficient water amounting to 10 g.p.m. from a spring on the property for camp, mining and

milling purposes.

Mining supplies and equipment are obtained at Bishop, Calif. The 21.8-mile trip by the applicant's 4-wheel drive truck requires 4-1/2 hours, one way.

APPLICANT'S PROPOSAL

The applicant proposed to drive drifts from the main exploratory adit crosscut. The work units were not definitely stated in the docket, however, the applicant proposed to spend $4,173.00 in drifting operations.



LOCATION SKETCH MAP

Figure 1

MAY 3 1954

KCV

Mr. Charles E. Lindner
General Delivery
Lemoncove, California

Re: Docket No. DMEA 3313 - Tungsten
Gough Mine
Inyo County, California

Dear Mr. Lindner:

Your application for assistance in exploring a tungsten occurrence in your Gough mine has been reviewed by the Iron and Ferro-Alloys Division of Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, 2012 Flood Building, 870 Market Street, San Francisco, 2, California, for further review and possibly a field examination.

The Regional office will contact you at an early date, if an examination of the property is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

S. O. Mittendorf

Administrator

JHopkins:fec
4-30-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. M. Geehan, USBM
E. P. Thayer

100

MAY 3 1954

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

Re: Docket No. DMEA 3313 - Tungsten
Charles E. Lindner
Omega Mine
Inyo County, California

Dear Mr. Miller:

The subject application for exploration assistance is being referred to your office for review and a field examination if warranted.

Enclosed are related memoranda by Mr. P. W. Guild, U. S. Geological Survey, dated April 27, 1954, and Mr. R. W. Goshen, U. S. Bureau of Mines, dated April 20, 1954.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines

D. M. Larrabee
Member, Geological Survey

JHopkins:fcc
4-30-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Goshen, USBM
T. P. Thayer, USGS

400

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
APR 28 1954

April 27, 1954

Memorandum

To: W.S. Martin, DMEA

From: P.W. Guild, USGS

Subject: DMEA 3313 - TUNGSTEN
Oomph Claims
Clarles E. Lindner
General Delivery, Lemoncove, Calif.

Summary: The applicant proposes to spend $4,173 in drifting on a scheelite-bearing zone at the contact of limestone and granite. No exact footage is specified.

Background: Lemmon, in "Tungsten deposits of the United States" (in manuscript form) states:

> "The Oomph claims are 0.5 mile east of the South Fork of Bishop Creek at an altitude of 10,500 feet in sec. 2, T. 9 S., R. 31 E. The prospects can be reached by trail from Parchers Camp, which is 1.5 miles southwest in a straight line. A little tactite with scheelite is exposed at intervals for a distance of 200 feet along a contact between granite on the south and calc hornfels on the north. The contact extends east and west, and makes a wide angle with the calc hornfels beds, which strike N. 30° W. and dip 80° N.E. Scheelite mineralization is not continuous along the contact, but is confined to the intersection with narrow, favorable beds. A few mineralized beds a foot or more wide contain 1.0 percent of WO_3 within a few feet of the granite, but most of them are of lower grade."

The information furnished by the applicant agrees reasonably well with the above statement.

Copy retained 400

Comments: It is unlikely that examination by a Field Team will change the picture appreciably. The high altitude, with its attendant heavy snow and short working season, would perhaps postpone an examination, report, and decision in Washington until too late to begin exploration this year. It may be advisable, therefore, to consider approval or denial of the application on the basis of available information, or by such supplementary information as may be gained by the Field Team through interview with the applicant. Can a specific target and unit of work be drawn up prior to a full scale examination?

Recommendation: Refer the application to the Field Team for consideration, consultation with the applicant, and possible examination.

cc: (3) WSMartin

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

April 20, 1954

Memorandum

To: W. S. Martin, DMEA

From: Robert W. Geehan

Subject: DMEA 3313 - Tungsten
Oomph mine, Inyo County, California
Charles E. Lindner

Applicant proposes to drift on a granite-limestone contact. He lists costs of $4,173 but does not say what length of drift this covers.

It is recommended that this application be referred to the field team. The mine is near several custom mills and if local roads are suitable for trucking ore there will be no need to develop ore reserves ample for a new mill.

The available records of the Bureau of Mines do not list this mine as a past producer; there is also no record of an examination.

Robert W. Geehan

C

OCT 11 1954

Mr. Charles E. Lindner
Box 451
Bishop, California

Dear Mr. Lindner:

This will acknowledge your letter dated September 28, 1954, in which you request that the assay report submitted by you under Docket No. IMEA-3313 be returned.

In accordance with your request the assay report is returned herewith.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

Attachment

REAdams/la/10-11-54

Copy to: Adm. Reading File
~~Mails~~ and Files

Sept. 28, '54

Defense Minerals
Expl. Adm.
Washington, D.C.,

Defense Minerals Administration
RECEIVED
OCT - 8 1954

Dear Mr. Johnson,

Received your letter dated Sept. 17th in relation to Docket No. D.M.E.A. 3313 - Tungsten Oomph Mine, Inyo County Calif.

Kindly send me the assay reports and any other data related to this mine.

Sincerely,
Chas. E. Lindner

Box 451 Bishop, Calif.

DOCKET
Surname:

Hopkins
Martin
Guhon
Kiilsgaard
Hedges
Selfridge
F Johnson

SEP 17 1954

Mr. Charles E. Lindner
General Delivery
Lemoncove, California

Re: Docket No. DMEA 3313 - Tungsten
Oomph Mine
Inyo County, California

Dear Mr. Lindner:

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

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

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

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

JHopkins/ls
9-15-54

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

R.C.L.

Docket
Surname
Hopkins
Martin
Gukon

September 15, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $4,173.00
Docket No. DMEA 3313 - Tungsten
Charles E. Lindner
Oomph Mine
Inyo County, California

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

The Oomph No. 1 and 2 mining claims are located on the east flank of the Sierra Nevada mountains along an east-trending, steeply dipping contact between white, thin-bedded calc-hornfels on the north and hornblende biotite granodiorite on the south.

Tactite is developed in the calc-hornfels at widely spaced intervals along the contact with granodiorite. Much of the tactite is scheelite-bearing and when examined in ultraviolet light, appears to contain from 0.50 percent to 0.80 percent WO_3.

The tactite bodies have been explored by means of eight small pits and one 75-feet adit.

The following samples were taken from the property at locations indicated under remarks:

Sample No.	Width, feet	% WO_3	Remarks
S-290	-	0.61	Grab sample of 6 tons - mine ore bin
S-291	2.0	0.06	West drift, Main Adit face
S-292	1.8	0.19	West drift, Main Adit
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The largest exposures of scheelite-bearing tactite are in the two easternmost pits; the longest dimension of ore in each pit is 20 feet. If it is assumed that the ore exposed in the face of the adit level is continuous with that exposed in the east pit, approximately 300 tons of ore can be inferred in this block. In the other scheelite-bearing tactite bodies, by assuming a depth extent of about one-half the longest dimension, less than 300 tons can be inferred.

Because of the small reserve tonnage and the high cost of mining such small, widely separated ore bodies, it is concluded that the amount of ore developed in an exploration program would not be commensurate with the cost, and Government participation in such a program is therefore not recommended. The Field Team recommended denial of the requested exploration loan.

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

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

JHopkins:foc
9-15-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

September 15, 1954

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $4,173.00
Docket No. DMEA 3313 - Tungsten
Charles E. Lindner
Oomph Mine
Inyo County, California

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S-296	4.0	0.79	4th pit
S-297	2.8	0.50	5th pit

The largest exposures of scheelite-bearing tactite are in the two eastermost pits; the longest dimension of ore in each pit is 20 feet. If it is assumed that the ore exposed in the face of the adit level is continuous with that exposed in the east pit, approximately 300 tons of ore can be inferred in this block. In the other scheelite-bearing tactite bodies, by assuming a depth extent of about one-half the longest dimension, less than 300 tons can be inferred.

Because of the small reserve tonnage and the high cost of mining such small, widely separated ore bodies, it is concluded that the amount of ore developed in an exploration program would not be commensurate with the cost, and Government participation in such a program is therefore not recommended. The Field Team recommended denial of the requested exploration loan.

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

W S Martin

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

IN REPLY REFER TO:

Docket

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

September 15, 1954

Re: DMEA-3313
Oomph Claims
Inyo Co., Calif.
$4,173 - Tungsten

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The applicant requested assistance to drive a drift from the face of the main adit crosscut.

Although total ore reserves may be about 600 tons containing less than 1.0 percent WO_3, the nature of the deposit as small, widely spaced ore pods will not permit a successful or feasible mining operation.

Further exploration cannot reasonably be expected to significantly increase the total reserves on this property.

I concur with the Field Team and recommend the applicant's proposal be denied.

E. L. Newcomb
E. L. Newcomb

2 m E. a.

Docket

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

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

August 31, 1954

Memorandum

To: W. S. Martin, Acting Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3313 - Tungsten
Charles E. Lindner
Oomph Mine
Inyo County, California

Reference is made to your letter dated May 3, 1954, referring the subject application to us for review and a field examination.

Attached are the original and three copies of a report entitled "DMEA-3313, Oomph Mine, Inyo County, California, (Tungsten)," by B. H. Sheahan, Mining Engineer, U. S. Bureau of Mines, and D. C. Ross and C. D. Rhinehart, Geologists, U. S. Geological Survey, dated August 24, 1954.

According to the report the tactite bodies have been explored by a few small pits and a 75 foot adit. Their contact extends easterly and westerly for a distance of approximately 300 feet. The scheelite mineralization is not continuous along the contact but is confined to the intersection with narrow favorable beds. A few mineralized beds, a foot to two feet in width, contained 1 per cent WO_3.

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

Exploration on this property is not warranted.

S. Ricker

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

Attachment

Copy to: Roscoe Smith, USGS

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3313, Oomph Mine

Inyo County, California

(Tungsten)

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

D. C. Ross, Geologist
C. D. Rinehart, Geologist
U. S. Geological Survey

August 24, 1954

Reviewed by
DMEA OPERATING COMMITTEE

9-13-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3313 (Tungsten)

Name and address of applicant: Charles E. Linder
Gen. Del.
Lemon Cove, Calif.

Name and location of property: Oomph Claims
Inyo County, Calif.

SUMMARY

The Oomph claims are located about 14 miles in a straight line southeast of Bishop, California at an altitude of 10,700 feet in section 2, T. 9 S., R. 31 E., M.D.B.&M., Inyo County, Calif. The prospect can be reached from Bishop by way of a steep 21.8 mile dirt road, or from Parchers pack station on the South Fork of Bishop Creek by way of a very steep 1.5-mile trail.

A little soft tactite with scheelite occurs as pods along the contact between granite on the south and calc hornfels on the north. The contact extends easterly and westerly for a distance of about 300 feet. The scheelite mineralization is not continuous along the contact, but is confined to the intersection with narrow favorable beds. A few mineralized beds, a foot to two feet in width, contain 1.0% WO_3 within a few feet of the granite. Ore reserves are very small.

Development and exploration work completed by Mr. Linder, the owner and applicant, for a $4,173.00 DMEA loan, has amounted to a few shallow prospect pits and trenches and a 75-foot adit crosscut with drift,

which intersects the contact 30 feet below the outcrop.

Exploration work proposed by the applicant would include drifting along the contact in search of ore. The rock is fairly soft and all of the work completed to date has been done by hand methods. Mr. Linder, the applicant, is an experienced prospector, miner and stone mason.

Production from the property has amounted to approximately 10 units of tungsten trioxide recovered from 20 tons of ore which has been mined during the past 14 years.

The property was recently examined by an engineer of the Bureau of Mines and by geologists of the Geological Survey on July 21 and 22, 1954.

CONCLUSIONS

The cost of exploration work at the property would exceed the gross profit from ore that might be discovered and mined at the property.

RECOMMENDATIONS

The examining engineer and geologists recommend denial of the requested exploration loan.

TIME SPENT ON PROPERTY

Access roads and trails leading to the property were inspected by the engineer on July 19 and 20, 1954. The property was examined by the engineer and geologists accompanied by Mr. Charles E. Linder, the applicant, on July 21 and 22, 1954.

NAME AND LOCATION OF PROPERTY

The "Oomph Mine" property is located in section 2, T. 9 S., R 31 E., M.D.B.&M., at an altitude of 10,700 feet. The property is situated in the Sierra Nevada mountains, approximately 14 miles in a straight line southeast of Bishop, Inyo County, Calif.

ACCESSIBILITY

The operating season at the property lasts only three months, June 15 to September 15, because of the altitude and severe high Sierra climate.

The property can be reached from Bishop, California by way of a steep winding 21.8 mile dirt road by way of the Peterson mill. The road crosses the north end of Coyote Flat and Coyote Ridge at an elevation of 11,100 feet. A four wheel drive vehicle is required to make the trip. The property can also be reached by way of very steep 1.5-mile trail leading from the South Fork of Bishop Creek (fig. 1).

COMPETENCY OF APPLICANT

Mr. Charles E. Linder, the applicant, submitted a fairly well-prepared docket application. Most of the exploration work conducted at the property was performed in a miner-like fashion by Mr. Linder.

Mr. Linder is a skilled stone mason. He has been employed by the U. S. Forest Service, and has been self-employed at prospecting, mining and construction work for 25 years.

The applicant lacked capital for his share of an exploration loan. Mr. Linder appeared to be an efficient workman. The exploratory workings were cleaned of snow, ice and loose muck, prior to the recent examination of the property.

APPLICANT'S PROPERTY RIGHTS

The property consists of two unpatented mining claims, the Oomph No. 1 and Oomph No. 2, and a 5-acre mill site. These claims were located by the applicant and the assessment work for the fiscal year ending June 30, 1954 has been completed. The property is owned by the applicant. The claims are recorded in vol. 53, p. 598 and vol. 54, p. 90 in the Recorder's Office of the County Courthouse at Independence, Calif.

DESCRIPTION OF PROPERTY

Surface facilities include a 6-by 8-foot tent, and camping equipment at the mill site located 1/4 mile south of the mine. The applicant has constructed a small concentrating plant of about a 3-ton daily capacity. Less than one ton of ore has been milled.

Exploratory workings at the property include three open cuts from 15 to 20 feet in length, four shallow prospect pits from 5 to 12 feet in depth, and a 75-foot crosscut and drift. The work has all been done by hand methods including hand drilling.

The following samples were taken from the property at locations indicated on Plate 2:

Sample No.	Width, Feet	%, WO_3	Remarks
S-290	2.0	0.61	Grab sample of 6 tons - mine ore bin
S-291	2.0	0.06	West Drift, Main adit face
S-292	1.8	0.19	West Drift, Main adit
S-293	2.2	0.37	1st open cut
S-294	2.8	0.28	2nd open cut select
S-295	2.0	0.40	3rd pit - bottom
S-296	4.0	0.79	4th pit
S-297	2.8	0.50	5th pit

GEOLOGY AND ORE DEPOSITS

The prospect is along an east-trending, steeply-dipping contact between white, thin-bedded calc-hornfels on the north and hornblende-biotite granodiorite on the south. The beds strike about N. 30° W. and dip steeply. The calc-hornfels is in the core of a tight anticline and is overlain by a thick unit of mica-quartz schist and quartzite which crops out both to the west and east. Aplitic dikes and sills penetrate the calc-hornfels.

Tactite is developed in the calc-hornfels at widely spaced intervals along the contact with granodiorite (Pl. 2). The tactite bodies are crudely wedge-shaped and are parallel to bedding in the calc-hornfels. The bodies are thickest at the contact with granodiorite and pinch out within a few feet to the northwest. A thin selvage of tactite a few inches thick is present discontinuously between the tactite bodies along the granodiorite contact.

The fresh tactite is generally fine- to medium-grained, contains an abundance of quartz, and is light-colored when compared with "typical"

tactite; pyroxene, epidote, amphibole, and garnet are present in lesser amounts. Much of the exposed tactite is scheelite-bearing and when examined in ultraviolet light, appears to contain from 0.50 percent to 0.80 percent WO_3. Most of the scheelite-bearing tactite is decomposed, friable, and contains much limonite, suggesting the previous existence of sulfides. One tactite body grades into a gossan-like limonite-quartz rock which appears to be a fissure filling.

ORE RESERVES

The tactite bodies have been explored by means of eight small pits and one 75-foot adit. The largest exposures of scheelite-bearing tactite are in the two easternmost pits; the longest dimension of ore in each pit is 20 feet. If it is assumed that the ore exposed in the face of the adit level is continuous with that exposed in the east pit, approximately 300 tons of ore can be inferred in this block. In the other scheelite-bearing tactite bodies, by assuming a depth extent of about one-half the longest dimension, less than 300 tons can be inferred.

In view of the small reserve tonnage and the high cost of mining such small, widely separated ore bodies, the amount of ore developed in an exploration program would not be commensurate with the cost, and Government participation in such a program is therefore not recommended.

EQUIPMENT

Mining equipment at the property:

Item	Condition	Value
1 Blacksmith forge - 6x18	Fair	$100.00

Item	Condition	Value
Blacksmith tools	Fair	$ 50.00
Miscellaneous hand tools	Good	150.00
1 Jackhammer	Fair	250.00
1 Wheelbarrow	Poor	25.00
1 Ore car	Poor	30.00
1 Windlass	Fair	50.00
1 Truck, 4-wheel drive, 1 ton	Poor	500.00

Mill equipment and supplies:

2 Orebins	Fair
1 Jaw crusher, 6" x 8"	Good
1 Belt elevator, 14 feet, 4"x6"	Poor
1 Concentration table (home made)	Poor
1 Gasoline engine, 1-1/2 horsepower	New
1 Pump, 1-inch centrifugal	New
1 Classifier, 12 foot	Fair

PAST OPERATIONS

The Oomph prospect was located by Mr. Linder in 1940 after the discovery of scheelite mineralization. An unsuccessful attempt was made by a leaser to operate the prospect when Mr. Linder was serving in the U. S. Army from 1941 to 1945.

From 1946 to 1952 work at the property included assessment work, road construction, and in 1953 construction of a small mill was started.

Total production has amounted to about 10 short ton units of tungsten trioxide recovered from 20 tons of ore.

MANPOWER, SUPPLIES, ETC.

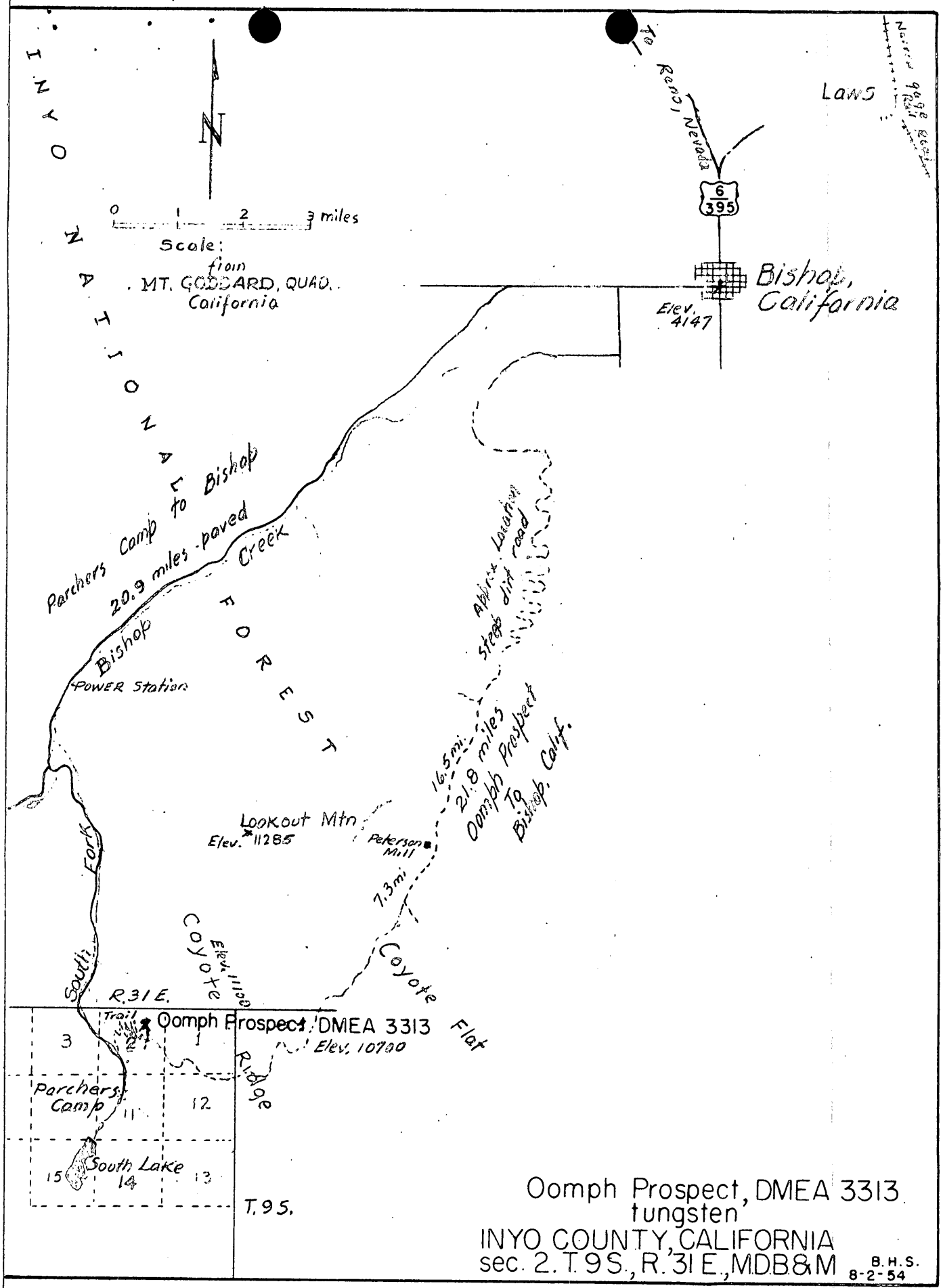
Although no miners have been employed at the property, the estimated wage scale is $17.00 per day. There is sufficient water amounting to 10 g.p.m. from a spring on the property for camp, mining and

milling purposes.

Mining supplies and equipment are obtained at Bishop, Calif. The 21.8-mile trip by the applicant's 4-wheel drive truck requires 4-1/2 hours, one way.

APPLICANT'S PROPOSAL

The applicant proposed to drive drifts from the main exploratory adit crosscut. The work units were not definitely stated in the docket, however, the applicant proposed to spend $4,173.00 in drifting operations.



LOCATION SKETCH MAP

Figure 1

400

Docket
Surname

Hopkins
Martin
Hoffman

MAY 3 - 1954

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

Re: Docket No. DMEA 3313 - Tungsten
Charles E. Lindner
Oomph Mine
Inyo County, California

Dear Mr. Miller:

The subject application for exploration assistance is being referred to your office for review and a field examination if warranted.

Enclosed are related memoranda by Mr. P. W. Guild, U. S. Geological Survey, dated April 27, 1954, and Mr. R. W. Geehan, U. S. Bureau of Mines, dated April 20, 1954.

Sincerely yours,

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

Enclosures

J
APPROVED:

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

D. M. Larrabee
Member, Geological Survey (2AB)

JHopkins:foc
4-30-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.S.

400

DOCKET
SURNAME

Hopkins
Martin
Farrell
Hedges
Jefferson

MAY 3 - 1954

Mr. Charles E. Lindner
General Delivery
Lemoncove, California

Re: Docket No. DMEA 3313 - Tungsten
Gough Mine
Inyo County, California

Dear Mr. Lindner:

Your application for assistance in exploring a tungsten occurrence in your Gough mine has been reviewed by the Iron and Ferro-Alloys Division of Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, 1012 Flood Building, 870 Market Street, San Francisco, 2, California, for further review and possibly a field examination.

The Regional office will contact you at an early date, if an examination of the property is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittenderf
(by 457)
Administrator

JHopkins:fcc
4-30-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 3
R. W. Geehan, USBM
T. F. Thayer

R.S.J.

Jmp

There is no state or County given on this application. We will carry it as Tulare Co., California (which is apparently where Lemon Cove is located) unless you notify us differently —

H Russell

Docket

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
APR 28 1954

April 27, 1954

WSM

Memorandum

To: W.S. Martin, DMEA

From: P.W. Guild, USGS

Subject: DMEA 3313 - TUNGSTEN
Oomph Claims
Clarles E. Lindner
General Delivery, Lemoncove, Calif.

Summary: The applicant proposes to spend $4,173 in drifting on a scheelite-bearing zone at the contact of limestone and granite. No exact footage is specified.

Background: Lemmon, in "Tungsten deposits of the United States" (in manuscript form) states:

> "The Oomph claims are 0.5 mile east of the South Fork of Bishop Creek at an altitude of 10,500 feet in sec. 2, T. 9 S., R. 31 E. The prospects can be reached by trail from Parchers Camp, which is 1.5 miles southwest in a straight line. A little tactite with scheelite is exposed at intervals for a distance of 200 feet along a contact between granite on the south and calc hornfels on the north. The contact extends east and west, and makes a wide angle with the calc hornfels beds, which strike N. 30° W. and dip 80° N.E. Scheelite mineralization is not continuous along the contact, but is confined to the intersection with narrow, favorable beds. A few mineralized beds a foot or more wide contain 1.0 percent of WO_3 within a few feet of the granite, but most of them are of lower grade."

The information furnished by the applicant agrees reasonably well with the above statement.

Copy retained 400

Comments: It is unlikely that examination by a Field Team will change the picture appreciably. The high altitude, with its attendant heavy snow and short working season, would perhaps postpone an examination, report, and decision in Washington until too late to begin exploration this year. It may be advisable, therefore, to consider approval or denial of the application on the basis of available information, or by such supplementary information as may be gained by the Field Team through interview with the applicant. Can a specific target and unit of work be drawn up prior to a full scale examination?

Recommendation: Refer the application to the Field Team for consideration, consultation with the applicant, and possible examination.

J.W. Guild

Docket

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

April 20, 1954

WSM

Memorandum

To: W. S. Martin, DMEA

From: Robert W. Geehan

Subject: DMEA 3313 - Tungsten
Oomph mine, Inyo County, California
Charles E. Lindner

Applicant proposes to drift on a granite-limestone contact. He lists costs of $4,173 but does not say what length of drift this covers.

It is recommended that this application be referred to the field team. The mine is near several custom mills and if local roads are suitable for trucking ore there will be no need to develop ore reserves ample for a new mill.

The available records of the Bureau of Mines do not list this mine as a past producer; there is also no record of an examination.

Robert W. Geehan

Robert W. Geehan

April 16, 1954

Mr. Charles E. Linder
General Delivery
Lemon Cove, California

Subject: DMEA-3313
Re: Exploration Assistance
Oomph #1 & 2

Dear Sir:

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

Your application has been assigned Docket Number DMEA-3313 and referred to the Iron and Ferro Alloys Division.

Kindly refer to DMEA-3313 in any future correspondence relating to your application.

Sincerely yours,

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

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

April 16, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 3313 Mr. Charles E. Linder

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

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

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

April 12, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan Application Forms MF-103 - Scheelite
Charles E. Lindner
General Delivery, Lemon Cove, California

Attached are three sets of MF-103 forms received in our mail from Charles E. Lindner, making application for a loan on the Oomph Mine. The fourth set has been retained for our records.

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

Attachment

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

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

April 12, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan Application Forms MF-103 - Scheelite
Charles E. Lindner
General Delivery, Lemon Cove, California

Attached are three sets of MF-103 forms received in our mail from Charles E. Lindner, making application for a loan on the Oomph Mine. The fourth set has been retained for our records.

H. C. MILLER

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

Attachment

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. 3313
Metal or Mineral Tungsten
Date Received
Estimated Cost $4,173
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: Charles E. Lindner, Gen. Del., Lemon Cove, Calif.

(*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 S. E. ¼ Sec. 34 T. 85 R. 31 E. Oomph #1 Vol. 53, P. 598 Oomph #2 Vol. 54 P. 90

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

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

(*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 wish to explore Scheelite

(*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 10 days and be completed within 3 months from the date of an exploration project contract. subject to the melting of snow on road

(*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.). None

(*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?

☐ 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 April 9, 1954

Charles E. Lindner
(Applicant)

By

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

Chas. E. Lindner

6. Estimate of Costs:

(b) Labor 50 shifts mining $2.10 per hour
10 shifts timbering $2.10 per hour
60 shifts x 2 miners — $2,016.00

(c) Operating Materials:

350' 1½" pipe and fittings	185.00
350' ½" pipe and fittings	75.00
Gasoline, 400 gallons .32	128.00
Oil, compressor, motor	15.00
Carbide	20.00
Powder 9 boxes	126.00
Caps 5 boxes	15.00
Fuse 28 rolls	49.00
2 shovels, 1 crow bar, 3 picks, 1 muck sheet, 1 forge, blacksmith tools, 1 sledge hammer, 2 timber saws, 2 axes, 2 augers, wedges, level, wrenches gas drums etc.	
Water from spring ¼ mile by road	
Plenty of pinon camp wood	
Wooden wedges	5.00
Spikes	10.00

(d) Operating Equipment:

Compressor (to be rented or purchased)	620.00
Airleg (to be rented or purchased)	62.00
Jackhammer (to be rented)	62.00
Rubber tired mine car (rent)	62.00
Drill Steel (Purchased)	78.00
Jackhammer hose (to be rented))	62.00
Airleg hose (to be rented))	
Detachable Bits (Purchased)	60.00
Water drum and fittings (welded)	10.50
	$3,660.50

Chas. E. Lindner

6. (e) Rehabilitation and Repairs: Cleaning out drift and preparation for mining .....$ 50.00

(g) Miscellaneous:

Accounting	
Workmans compensation insurance)	
Employer's liability insurance).....	201.60
Payroll Taxes	60.48
Repairs and maintenance equipment	50.00

(h) Contingencies:

(A) Transportation (over 23 miles of steep dirt road) of supplies of gas, oil, compressor, hose, steel, powder, 700 ft. pipe, airleg etc.	150.00
	512.08
	3,660.50
Total	$4,172.58

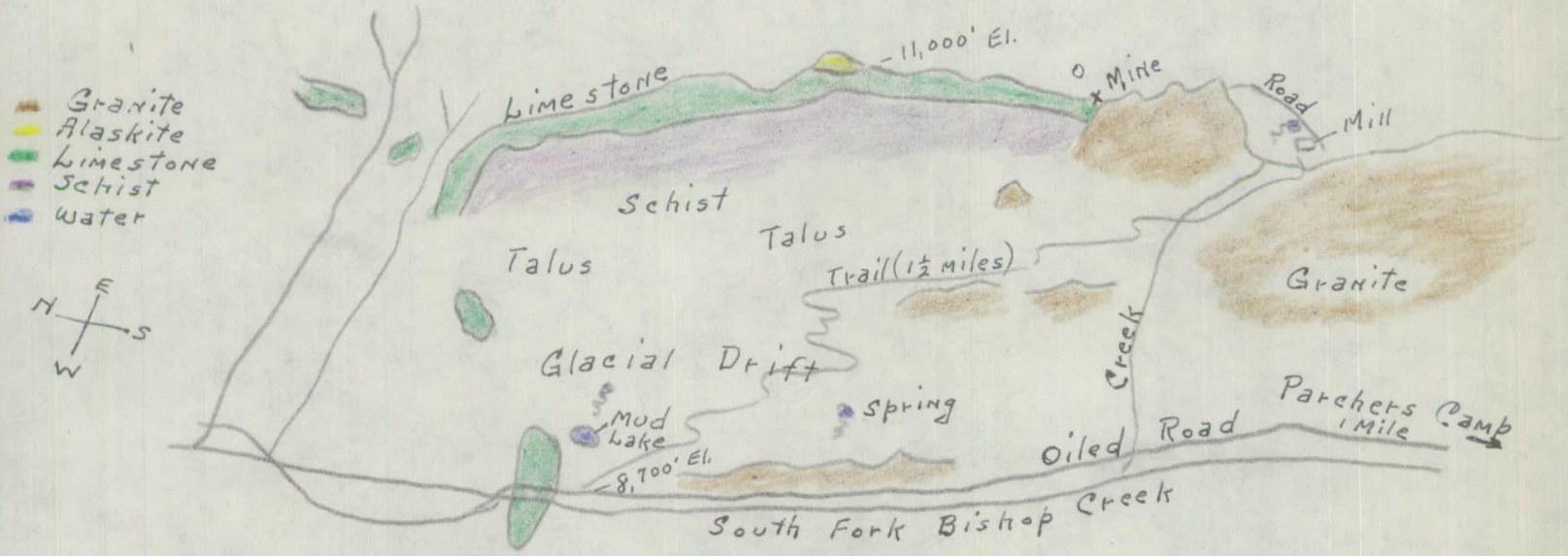
7. (b) I propose to furnish my share of the costs by working in the mine and furnishing all the equipment that I have.

Chas. E. Lindner

4. Physical description:
   (a) 3 open cuts 15 ft. to 20 ft. length
   4 shafts 6ft. to 12 ft. depth
   1 drift 110 ft. length, partly timbered.
   40 ton ore bin
   100 ft. tramway

   I did all the digging, except for one 10ft. shaft. Brother and I constructed ore bin and tramway. Two open cuts and 3 shafts, and the drift, are accessible for examination.

   (b) Production approximately 50 tons. Ore reserves along contact, in shafts and open cuts
   4' x 15' -.5% 4' x 10' -.70%, 4' x 20' -.77%
   4' x 6' - 1.5%, 3' x 15' - 2%



   (c) Geologic features of the property consist of a Limestone hanging wall and a granite footwall, which dips to the North about 45° on the East side of ridge approximately 300' of Limestone can be traced for several miles. It runs North 20° W. from the contact. Evidently it is a deep formation, for there is limestone on the floor of the South Fork of Bishop Creek 2,300 ft. lower. The bedding plane appears to dip 20° East. The limestone is enclosed by Schist on both sides of ridge.

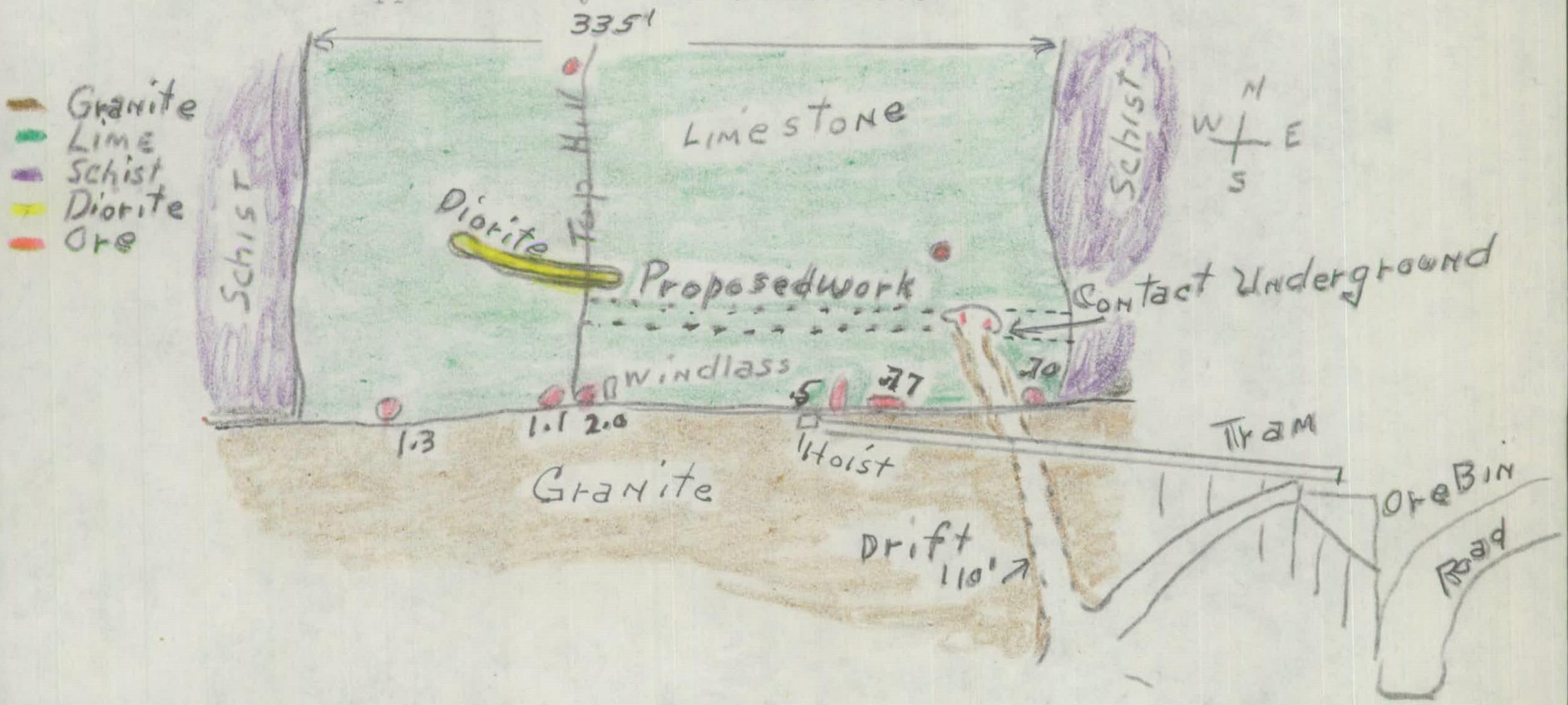
   It is a contact metamorphic deposit, and the mineralization consists of iron oxides, sericite, garnet, epidote, cindered silica, manganese stains. There is a small dyke of diorite cutting the limestone near the contact, and an Alaskite? outcrip appears farther North along the ridge.

Chas. E. Lindner

4. (c) Reasons for wishing to explore is on account of the best ore forms along the contact near the top of the ridge, and the Diorite dyke may form a dam for the mineralizing solutions,[5] Pockets of 25% ore were found in one cut. Deep Limestone formation.

(d) Accessibility to property by 23 miles of dirt road to Bishop, through Coyote Valley. Or by one and a half miles of trail from the S.F. of Bishop Creek. Supply point, Bishop, 23 miles. Residence point at mill ¼ mile South property. Snow on road melts by 6/15 to 7/1.

(e) Manpower, materials, supplies and equipment usually available at Bishop. Water from spring ¼ mile S. property. Power line on Bishop Creek approximately 5 miles distance.

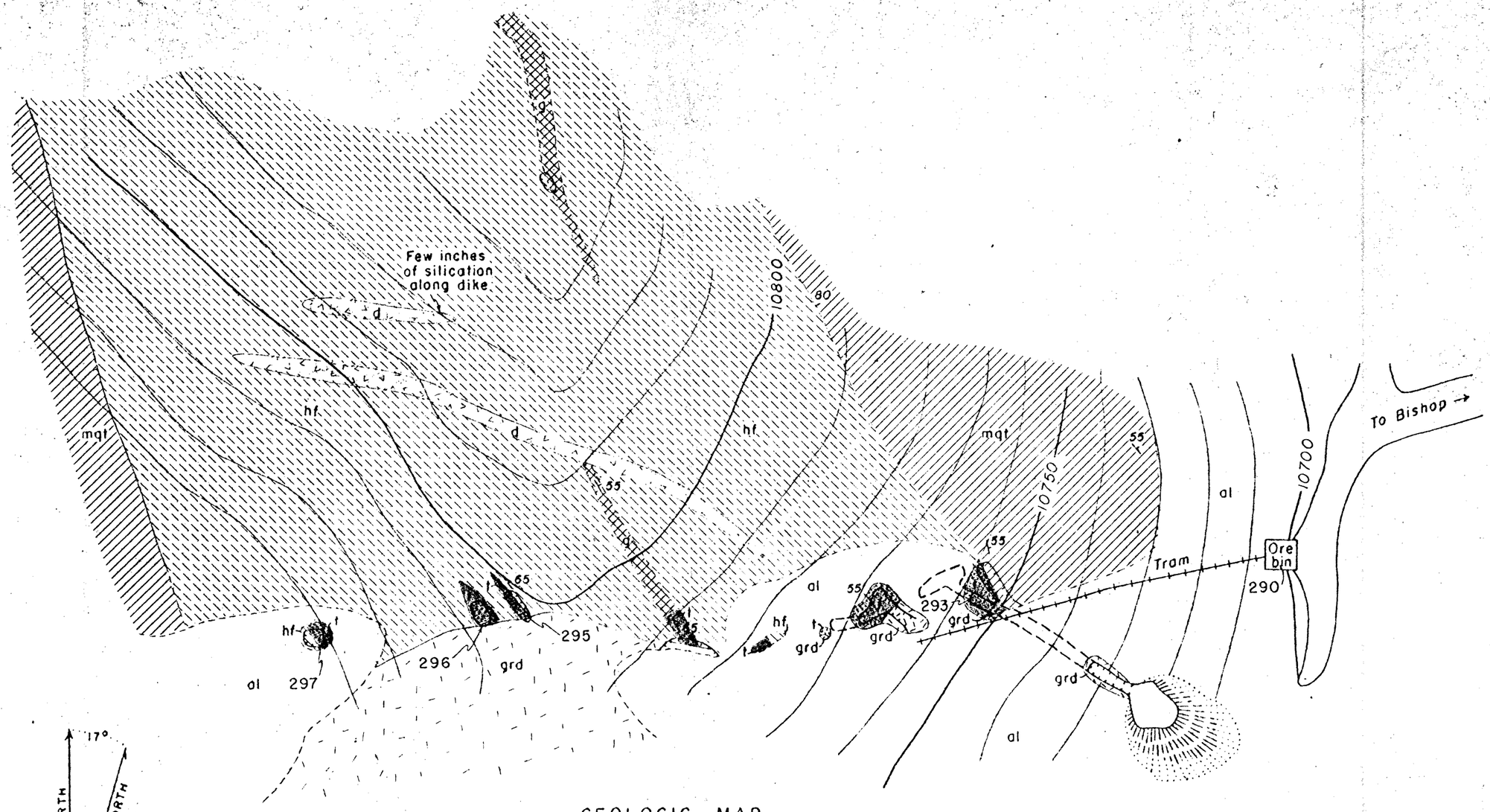


5. (b) Proposed work is to extend the drift in along the contact both ways, in search of ore. Places along the contact may be encountered where it will be necessary to timber them. There is a good supply of timber near the property.

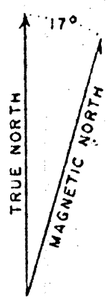
(d) Operating experience of applicant includes all the mining done on this property except for one 10 foot shaft. I have worked as a miner in different mines in this locality for the past 12 years. I will supervise the work.

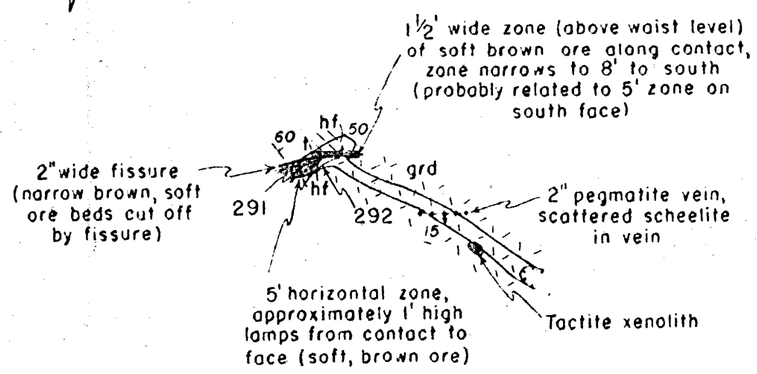
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3313
(TUNGSTEN)



GEOLOGIC MAP





All soft, brown ore, somewhat poorer in face

UNDERGROUND WORKINGS

Geology by D.C. Ross and C. D. Rinehart, July 1954

EXPLANATION

al — Slope wash

g — Iron-stained gossan-like material

t — Tactite, with little or no scheelite

T — Tactite with scheelite

hf — Calc-hornfels

mqt — Micaceous quartzite

grd — Granodiorite

d — Diorite

80 — Contact, showing dip (Dashed where approximately located)

Fault

65 — Strike and dip of beds

Open cut

Dump

Projection of underground workings

Sample	Width	% WO_3
290	grab	0.61
291	2.0'	0.06
292	1.8'	0.19
293	2.2'	0.37
294	2.8'	0.28
295	2.0'	0.40
296	4.0'	0.79
297	2.8'	0.50

GEOLOGIC MAP AND UNDERGROUND WORKINGS OF THE LINDNER PROSPECT (OOMPH CLAIMS)
INYO COUNTY, CALIFORNIA

40 0 40 80 120 Feet

Contour interval 10 feet

PLATE 2