400

JUL 9 - 1956

Weldon Brothers
c/o Norman Weldon
Box 39, Trimmer Route
Sanger, California

Re: Docket No. DMEA 4273, Tungsten
Hilltop Mine
Fresno County, California

Gentlemen:

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 our information, although noting tungsten mineralization in the Hilltop mine property, indicates to us that the probability of disclosing minable tungsten ore reserves is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

G. O. Mittendorf

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
R. W. Holliday, USBM
Field Team, Reg. 2

SPHolt/ls 7/2/56

July 2, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $24,400.25
Docket No. DMEA 4273, Tungsten
Weldon Brothers
Hilltop Mine
Fresno County, California

Denial of the subject application is recommended by this Division based on the following information:

(1) The applicant, Weldon Brothers, c/o Norman Weldon, Box 39, Trimmer Route, Sanger, California, requested exploration assistance in the amount of $24,400.25 for bulldozing, crosscutting and drifting in the Hilltop mine claim group.

(2) The applicant controls, by ownership of 2/3 interest and lease of the other 1/3 interest from its owner, Jack McHaley, 10 unpatented lode mining claims situated in secs. 19 and 30 (projected), T. 11 S., R. 26 E., Dinkey Creek Mining District, within the Sierra National Forest, Fresno County, California, and recorded in the County Recorder's office at Fresno, California, as follows:

Claim Name	Recorded Book No.	Recorded Page No.
Ridge Mine	3329	36
Hilltop No. 1	3329	37
Hilltop No. 2	3377	481
Hilltop No. 3	3377	482
Hilltop No. 4	3470	117
Hilltop No. 5	3470	115
Hilltop No. 6	3470	113
Hilltop No. 7	3470	111
Hilltop No. 8	3470	109
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(3) The proposed program is to bulldoze access roads to a camp-site, to a proposed adit portal, and to a distant tactite outcrop, and to drive 120 feet of crosscut adit, and 180 feet of drift.

(4) In the area of the Hilltop mine claims, tungsten occurs within tactite bodies in highly contorted, fractured, and faulted beds of metamorphic limestone adjacent to its contacts with granitic gneiss.

(5) The Field Team concludes that the low grade and small size of the target does not justify an exploration program of the magnitude proposed, nor Government participation in any program. Bulldozer trenching by the applicant along the west side of the saddle, to determine the continuity of the tactite zone, and estimated to cost only a few hundred dollars, may be warranted. The Field Team recommends that the application be denied. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

Acting Chief
Iron and Ferro-Alloys Division

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File

SPHolt/ls
7/2/56

400

June 28, 1956

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Review of Field Team Examination Report
Docket No. DMEA-4273 - Tungsten
Welden Brothers
Hilltop Mine
Fresno County, California

Subject report states that the scheelite bearing zones are small, discontinuous and low grade.

There might also be some question regarding the advisability of driving a 150 foot crosscut, as proposed, instead of a winze.

I concur in the examiners recommendation that the request for assistance be denied.

R. W. Holliday

IN REPLY REFER TO:

400

RECEIVED

JUN 25 1956

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

June 22, 1956

Ref: [illegible]-4273
Weldon Bros.
Hilltop Claims
Fresno Co., Calif.
[illegible]24,400 - Tungsten

Memorandum

To: [illegible]. [illegible]. Martin, Defense Minerals Exploration Administration

From: [illegible]. [illegible]. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicants requested assistance in exploring a scheelite bearing tactite zone on which considerable work, consisting of bulldozing, trenching, a short adit and geologic mapping, had been done. A number of outcrops of tactite are known.

Several beds within limestone are converted to tactite. The beds are contorted and strike in many directions. A bed explored by a short adit is 4 feet thick. The material exposed contains less than 0.4[illegible] WO_3. To it the examiners ascribe the following tonnages:

Measured ore	500 tons
Indicated ore	2,000 tons
Inferred ore	4,500 tons

The grade of all classes 0.3 to 0.4[illegible] WO_3.

The examiners conclude:

"The low grade and small size of the target does not justify an exploration program of the tonnage proposed, or Government participation in any program. Bulldozer trenching by the applicant along the west side of the saddle, to determine the continuity of the tactite zone, and estimated to cost only a few hundred dollars, may be warranted."

I agree with the opinion of the examiners and concur with the recommendation of the examiners and the Field Team that the application be denied.

W. S. Nelson

W. S. Nelson

WSNelson:btr
G 6/22/56

cc: Robert Holliday, 3517
Director's reading file (4212)
Branch reading file.
DMEA (3). Chron. file. Docket file

400

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

RECEIVED
JUN 18 1956

1605 Evans Avenue
Reno, Nevada

June 15, 1956

WJM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4273 (Tungsten)
Weldon Brothers
Hilltop Mine
Fresno County, California

Reference is made to your letter of May 23, 1956 relative to above subject docket.

Attached are four copies of a report by Walter Bank, Bureau of Mines and Robert G. Reeves, Geological Survey in which it is recommended that the request for assistance be denied.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

Reviewed by
DMEA OPERATING COMMITTEE
6/22/56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

RECEIVED
JUN 18 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 4273 (tungsten)
Weldon Brothers
Hilltop claims
Fresno County, California

by

Walter Bank
U. S. Bureau of Mines

Robert G. Reeves
U. S. Geological Survey

June 13, 1956

Reviewed by
DMEA OPERATING COMMITTEE

(date)

CONTENTS

	Page
Introduction	1
Conclusions and Recommendations	1
Location, Accessibility, and Local Facilities	2
The Property	2
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Geology and Ore Deposits	4
Sampling	5
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ILLUSTRATIONS

Figure 1	Location map
2	Claim map
3	Geologic map

RECEIVED
JUN 18 1956

INTRODUCTION

Weldon Brothers, c/o Norman Weldon, Box 39, Trimmer Route, Sanger, California, applied for Government assistance in a $24,400.25 program under the Defense Minerals Exploration Administration, docket DMEA-4273, to explore for tungsten at the Hilltop mine, Fresno County, California. The applicant proposes to explore scheelite-bearing tactite zones by bulldozing a road and crosscutting and drifting 300 feet. Additional roads to a campsite and to a distant tactite exposure are also proposed.

Robert G. Reeves and Walter Bank, accompanied by Norman Weldon, made an examination on May 10, 1956.

CONCLUSIONS AND RECOMMENDATIONS

It is recommended that the request for assistance be denied. Scheelite-bearing tactite zones are small and apparently discontinuous, and the grade is low; no samples by the examiners assayed over 0.4 percent WO_3. The property contains less than 10,000 tons of reserves of all classes which may average 0.3 to 0.4 percent WO_3.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Hilltop claims are in secs. 19 and 30 (projected), T. 11 S., R. 26 E., M.D.B.&M., in the Dinkey Creek mining district, at an altitude of 4,000 to 5,200 feet, within the Sierra National Forest, Fresno County, California (fig. 1).

The property is 63 miles northeast of Fresno, California, and is reached over improved, graded Forest Service road that turns north from the paved county highway 22 miles east of Piedra (fig. 1). The Forest Service road is passable to passenger cars except in extremely wet weather when washouts, excessive mud, or occasional heavy snowfalls close the road. The main workings are about one-half mile east of the Forest Service road over a steep, unimproved dirt road.

THE PROPERTY

The original discovery, known as the Ridge Prospect, was made by H. Hildebrande and D. Pliman. Jack McHaley relocated the Ridge mine and Hilltop No. 1 in 1952 or 1953. Norman Weldon located Hilltop No. 2 - 9 in 1953-1954. These 10 unpatented claims are recorded at Fresno, California.

The claims were leased by a Mr. Donoho who drove a 15-foot adit before surrendering the lease.

No production is reported. The nearest producing mine, the Kings River Tungsten Mine (Houghten Brothers) is about 4 miles away.

Jack McHaley has leased his 1/3 interest to the Weldon brothers who own the remainder of the property. The applicants are experienced in heavy construction and road work, and have some mining experience.

DEVELOPMENT

About $8,000 has been spent on bulldozing, trenching, driving a 15-foot adit, and constructing an access road. K. M. Abell, consulting geologist, mapped the property for the Weldons; and some engineering and geological work was done for Doncho by his representatives.

An old coyote hole, downhill to the northeast, exposes tactite that lamps.

A rented Ingersoll-Rand 125 compressor, some timber, a few hand tools, and a camp site clearing are on the property. A new 1/2-ton Chevrolet pickup is owned by Norman Weldon.

Ore found can be treated at the Houghten Mill. An incompleted mill on Big Creek about 12 miles away can be completed and rented on a daily basis.

GEOLOGY AND ORE DEPOSITS

The Hilltop mine is on a sharp narrow saddle on the western flank of the Sierra Nevada. The mine is in the easternmost of three areas of metamorphosed calcareous rocks in sec. 19 (projected), T. 11 S., R. 26 E., shown on the geologic map of the area by Krauskopf[1].

---

[1] Krauskopf, K. B., 1953, Tungsten deposits of Madera, Fresno, and Tulare Counties, California: Calif. Div. Mines Sp. Rept. 35, Pl. 1.

The mine is several hundred feet south of the northern edge of the metamorphosed limestone area. North of the meta limestone, the country rock is micaceous schist and minor interbedded silicified and silicated calcareous beds, in places intruded by granite to form an injection gneiss (migmatite). The general trend of the schist and injection gneiss is easterly and dips are from vertical to 60° S.

The metamorphosed calcareous rocks consist of silicified and silicated limestone. Several beds within the limestone were converted to tactite containing garnet, epidote, quartz, feldspars, mica, and scheelite. The beds are contorted and strike in many directions from north to east, and dip from 20° S to 80° NE (fig. 3). They are cut by two easterly-trending major

faults and numerous minor faults.

The ore deposits are contained within the tactite beds in the meta limestone. A bed explored by a short adit is 4 feet wide, strikes N 55° E and dips 60° SE, and is exposed vertically for 25 feet. It is probably cut off at less than 100 feet below the surface by the southernmost fault (fig. 3). What may be the same bed crops out on the east side of the saddle. Other tactite beds or bodies are exposed south of the southernmost fault.

These highly contorted metamorphosed calcareous rocks, fractured by faults and adjacent to the granitic intrusive body, are favorable hosts for tungsten deposits (Krauskopf, p. 9). However, material exposed contains less than 0.4 percent WO_3, and is in small, apparently discontinuous bodies erratically distributed in the contorted limestone.

SAMPLING

Three scheelite-bearing tactite samples were collected with locations shown in figure 3.

Sample No.	Length, feet	% WO_3	Location and Remarks
B-8	1.5	0.17	North side of adit, 10 ft. from portal, waist high cut.
B-9	2.0	*0.01	Floor of adit, 5 ft. from portal.

Sample No.	Length, feet	% WO_3	Location and Remarks
B-10	1.5	0.39	South of adit, in open cut, on east side of ridge.

*less than

ORE RESERVES

The only ore reserves now known or inferred are contained in the 4-foot tactite bed. This bed is exposed on two sides for 50 feet along the bed and 25 feet down the dip, and contains 500 tons of measured ore; 2,000 tons of indicated ore in a block 100 feet long, 50 feet deep, and 4 feet wide adjacent to, on the ends of, and below the measured ore; and 4,000 tons of inferred ore in a zone 100 feet long, 100 feet deep, and 4 feet wide adjacent to, on the ends of, and below the indicated ore. The grade of the reserves of all classes is between 0.3 and 0.4 percent WO_3. A factor of 10 cubic feet/ton is used in calculating ore reserves.

EXPLORATION PROPOSAL

The low grade and small size of the target does not justify an exploration program of the magnitude proposed , or Government participation in any program. Bulldozer trenching by the applicant along the west side of the saddle, to determine the continuity of the tactite zone, and estimated to cost only a few hundred dollars, may be warranted.

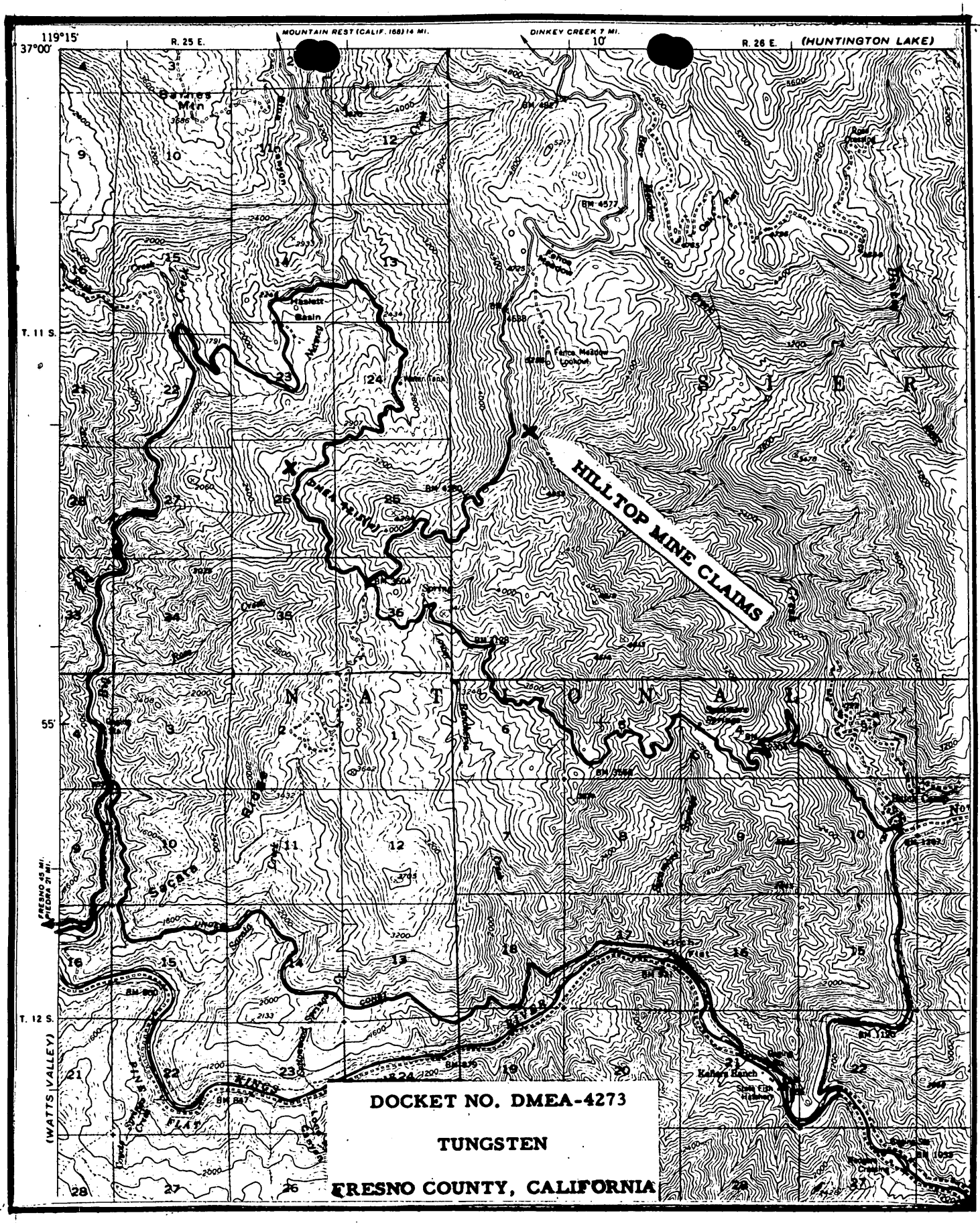


FIG. 1 LOCATION MAP CALIFORNIA

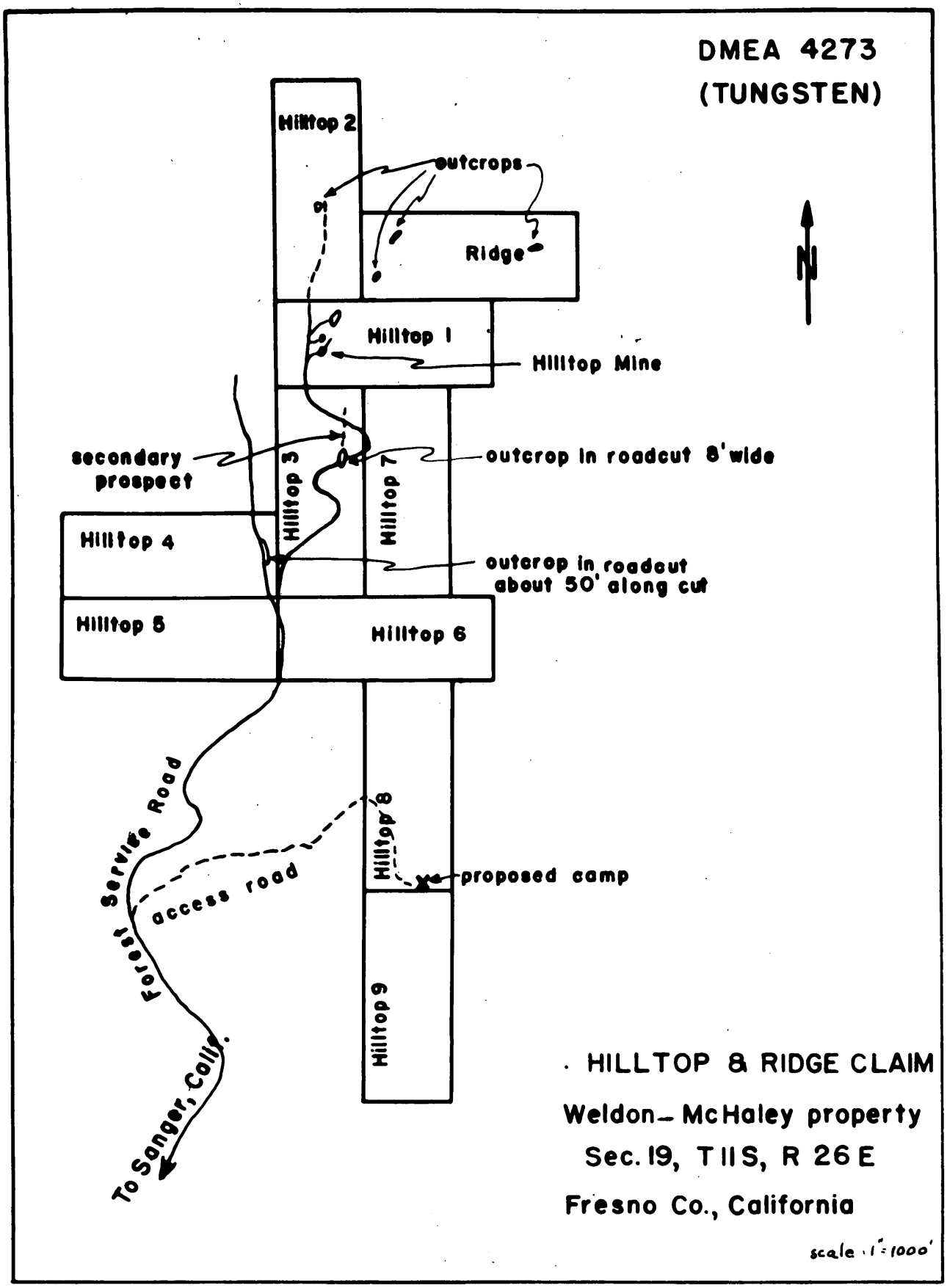
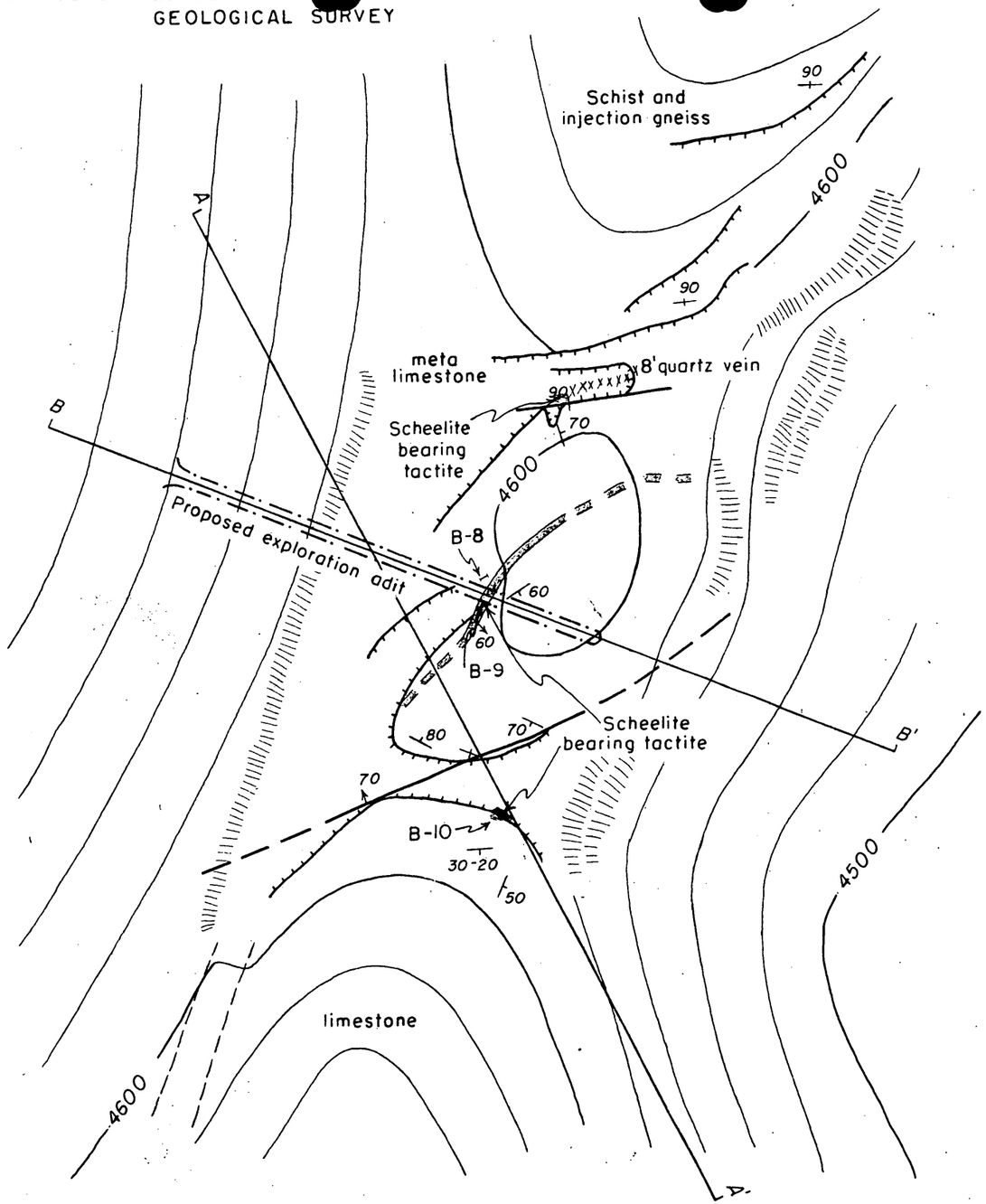
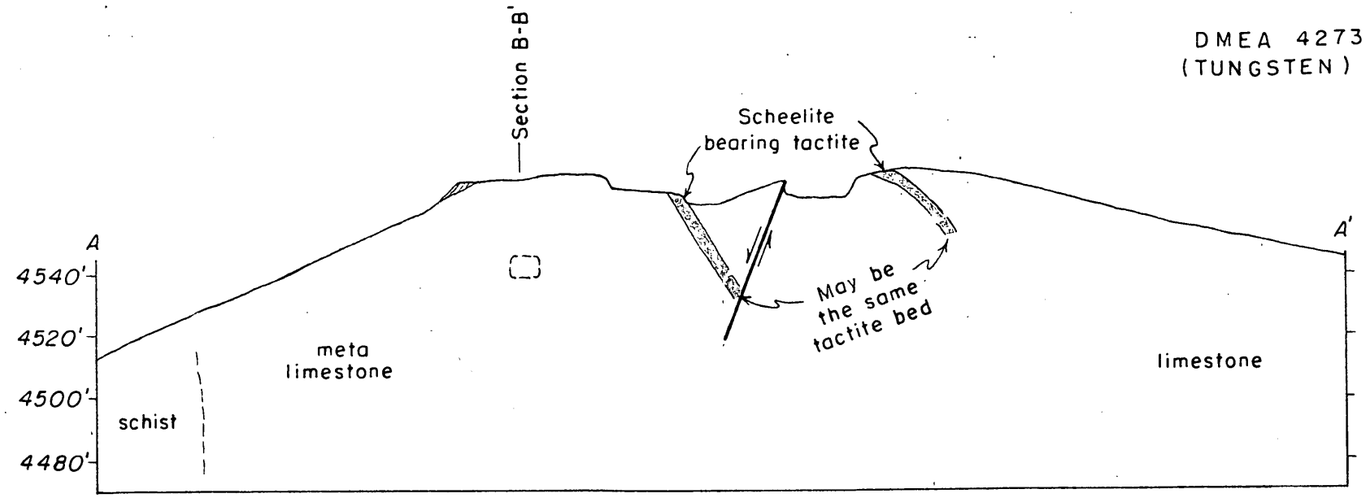

DMEA 4273
(TUNGSTEN)
Hilltop 2
outcrops
Ridge
N
Hilltop 1
Hilltop Mine
secondary prospect
outcrop in roadcut 8' wide
Hilltop 3
Hilltop 7
Hilltop 4
outcrop in roadcut about 50' along cut
Hilltop 5
Hilltop 6
Forest Service Road
access road
Hilltop 8
proposed camp
Hilltop 9
To Sanger, Calif.
HILLTOP & RIDGE CLAIM
Weldon- McHaley property
Sec. 19, T11S, R 26E
Fresno Co., California
scale 1" = 1000'

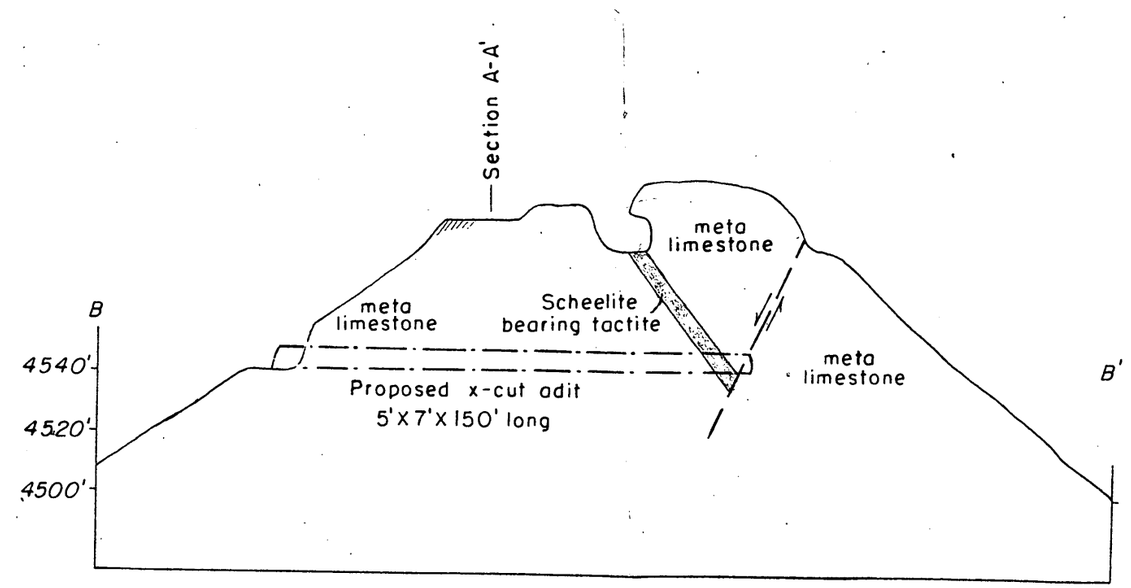
FIGURE 2

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4273
(TUNGSTEN)







0 50 100 150 Feet
Contour interval 20 feet

HILLTOP MINE, FRESNO COUNTY, CALIFORNIA

Figure 3

400

MAY 23 1956

Welden Brothers
Box 39
Trimmer Route
Sanger, California

Re: Docket No. DMEA 4273 - Tungsten
Hilltop Mine
Fresno County, California

Gentlemen:

The above docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, and is being referred to Mr. Spangler Richer, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

Any assistance that you may give the members of the Field Team will be appreciated.

Sincerely yours,

G. O. Mittendorf

Administrator

TLChapman/foc
5/21/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

400

MAY 23 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4273 - Tungsten
Weldon Brothers
Hilltop Mine
Fresno County, California

Dear Mr. Ricker:

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

Copies of memoranda dated May 2 and 14, 1956, by M. E. Nelson, Geological Survey, and R. W. Holliday, Bureau of Mines, respectively, relating to the project are enclosed.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

TLChapman/fec
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosures

400

RECEIVED
MAY 16 1956

May 14, 1956

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Subject: Application
Docket No. DMEA 4273
Hilltop Mine-Fresno County, California
Norman S. Weldon, Box 39
Trimmer Rt., Sanger, California
$24,400.25-Tungsten

Subject application proposes 300 feet of drift and crosscut and 1000 feet of road. Additional information is necessary for appraisal particularly regarding feasability of the proposed method of exploration.

Referral to the field for appropriate action is recommended.

R. W. Holliday

IN REPLY REFER TO:

406

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

May 2, 1956

Re: DMEA 4273
Waldon Bros.
Hilltop Mine
Fresno Co., California
$24,400.25 - Tungsten

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicants request assistance in exploring for the downward extension of a scheelite-bearing tactite outcrop. An assay certificate reporting 4.26% WO_3 is part of the application, but we are not told what the sample represents. A map shows seven places where tactite crops out but no other samples appear to have been taken. Thus the application is based on one sample and seven scattered outcrops, but in the words of the consulting geologist " . . . it is felt some of the outcrops connect." Sampling is not mentioned by the consultant. The proposed underground work probably is not yet warranted. The proposed program consists of:--

Labor and consultants	$ 7,037.50
Roads and 'pioneering'	3,000.00
Buildings	4,876.75
Equipment (large), Cost and rental	7,036.00
Equipment (small tools)	250.00
Contingencies	2,200.00
Total	$24,400.25

RECEIVED
MAY 3 - 1956

Total 300 feet adit, or $81.33/ft.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-5/2/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

DOCKET
Surname:
400
Holt
Chapman
Kiilsgaard
Gehan
Selfridge
Hyslop

CW

JUL 9 - 1956

Weldon Brothers
c/o Norman Weldon
Box 39, Trimmer Route
Sanger, California

Re: Docket No. DMEA 4273, Tungsten
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Fresno County, California

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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 our information, although noting tungsten mineralization in the Hilltop mine property, indicates to us that the probability of disclosing minable tungsten ore reserves is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
R. W. Holliday, USBM
Field Team, Reg. 2

SPHolt/ls 7/2/56

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

July 2, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $24,400.25
Docket No. DMEA 4273, Tungsten
Weldon Brothers
Hilltop Mine
Fresno County, California

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(3) The proposed program is to bulldoze access roads to a camp-site, to a proposed adit portal, and to a distant tactite outcrop, and to drive 120 feet of crosscut adit, and 180 feet of drift.

(4) In the area of the Hilltop mine claims, tungsten occurs within tactite bodies in highly contorted, fractured, and faulted beds of metamorphic limestone adjacent to its contacts with granitic gneiss.

(5) The Field Team concludes that the low grade and small size of the target does not justify an exploration program of the magnitude proposed, nor Government participation in any program. Bulldozer trenching by the applicant along the west side of the saddle, to determine the continuity of the tactite zone, and estimated to cost only a few hundred dollars, may be warranted. The Field Team recommends that the application be denied. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

Thomas L. Chapman

Acting Chief
Iron and Ferro-Alloys Division

400 Docket Hall Chapman

July 2, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $24,400.25
Docket No. DMEA 4273, Tungsten
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Hilltop Mine
Fresno County, California

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Acting Chief
Iron and Ferro-Alloys Division

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File

SPHolt/ls
7/2/56

Docket

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

Copy returned 400.

June 28, 1956

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Review of Field Team Examination Report
Docket No. DMEA-4273 - Tungsten
Weldon Brothers
Hilltop Mine
Fresno County, California

Subject report states that the scheelite bearing zones are small, discontinuous and low grade.

There might also be some question regarding the advisability of driving a 150 foot crosscut, as proposed, instead of a winze.

I concur in the examiners recommendation that the request for assistance be denied.

R W Holliday

R. W. Holliday

IN REPLY REFER TO:
Docket

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

RECEIVED
JUN 25 1956

June 22, 1956

Re: DMEA-4273
Weldon Bros.
Hilltop Claims
Fresno Co., Calif.
$24,400 - Tungsten

WSM

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicants requested assistance in exploring a scheelite bearing tactite zone on which considerable work, consisting of bulldozing, trenching, a short adit and geologic mapping, had been done. A number of outcrops of tactite are known.

Several beds within limestone are converted to tactite. The beds are contorted and strike in many directions. A bed explored by a short adit is 4 feet thick. The material exposed contains less than 0.4% WO_3. To it the examiners ascribe the following tonnages:

Measured ore	500 tons
Indicated ore	2,000 tons
Inferred ore	4,000 tons

The grade of all classes 0.3 to 0.4% WO_3.

The examiners conclude:

"The low grade and small size of the target does not justify an exploration program of the magnitude proposed, or Government participation in any program. Bulldozer trenching by the applicant along the west side of the saddle, to determine the continuity of the tactite zone, and estimated to cost only a few hundred dollars, may be warranted."

I agree with the opinion of the examiners and concur with the recommendation of the examiners and the Field Team that the application be denied.

N. E. Nelson

N. E. Nelson

Copy retained 400

D m E a

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

RECEIVED
JUN 18 1956

1605 Evans Avenue
Reno, Nevada

June 15, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4273 (Tungsten)
Weldon Brothers
Hilltop Mine
Fresno County, California

Reference is made to your letter of May 23, 1956 relative to above subject docket.

Attached are four copies of a report by Walter Bank, Bureau of Mines and Robert G. Reeves, Geological Survey in which it is recommended that the request for assistance be denied.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
6-22-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

RECEIVED
JUN 18 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 4273 (tungsten)
Weldon Brothers
Hilltop claims
Fresno County, California

by

Walter Bank
U. S. Bureau of Mines

Robert G. Reeves
U. S. Geological Survey

June 13, 1956

Reviewed by
DMEA OPERATING COMMITTEE
6-22-56
(date)

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ILLUSTRATIONS

Figure 1	Location map
2	Claim map
3	Geologic map

RECEIVED
JUN 18 1956

INTRODUCTION

Weldon Brothers, c/o Norman Weldon, Box 39, Trimmer Route, Sanger, California, applied for Government assistance in a $24,400.25 program under the Defense Minerals Exploration Administration, docket DMEA-4273, to explore for tungsten at the Hilltop mine, Fresno County, California. The applicant proposes to explore scheelite-bearing tactite zones by bulldozing a road and crosscutting and drifting 300 feet. Additional roads to a campsite and to a distant tactite exposure are also proposed.

Robert G. Reeves and Walter Bank, accompanied by Norman Weldon, made an examination on May 10, 1956.

CONCLUSIONS AND RECOMMENDATIONS

It is recommended that the request for assistance be denied. Scheelite-bearing tactite zones are small and apparently discontinuous, and the grade is low; no samples by the examiners assayed over 0.4 percent WO_3. The property contains less than 10,000 tons of reserves of all classes which may average 0.3 to 0.4 percent WO_3.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Hilltop claims are in secs. 19 and 30 (projected), T. 11 S., R. 26 E., M.D.B.&M., in the Dinkey Creek mining district, at an altitude of 4,000 to 5,200 feet, within the Sierra National Forest, Fresno County, California (fig. 1).

The property is 63 miles northeast of Fresno, California, and is reached over improved, graded Forest Service road that turns north from the paved county highway 22 miles east of Piedra (fig. 1). The Forest Service road is passable to passenger cars except in extremely wet weather when washouts, excessive mud, or occasional heavy snowfalls close the road. The main workings are about one-half mile east of the Forest Service road over a steep, unimproved dirt road.

THE PROPERTY

The original discovery, known as the Ridge Prospect, was made by H. Hildebrande and D. Pliman. Jack McHaley relocated the Ridge mine and Hilltop No. 1 in 1952 or 1953. Norman Weldon located Hilltop No. 2 - 9 in 1953-1954. These 10 unpatented claims are recorded at Fresno, California.

The claims were leased by a Mr. Donoho who drove a 15-foot adit before surrendering the lease.

No production is reported. The nearest producing mine, the Kings River Tungsten Mine (Houghten Brothers) is about 4 miles away.

Jack McHaley has leased his 1/3 interest to the Weldon brothers who own the remainder of the property. The applicants are experienced in heavy construction and road work, and have some mining experience.

DEVELOPMENT

About $8,000 has been spent on bulldozing, trenching, driving a 15-foot adit, and constructing an access road. K. M. Abell, consulting geologist, mapped the property for the Weldons; and some engineering and geological work was done for Donoho by his representatives.

An old coyote hole, downhill to the northeast, exposes tactite that lamps.

A rented Ingersoll-Rand 125 compressor, some timber, a few hand tools, and a camp site clearing are on the property. A new 1/2-ton Chevrolet pickup is owned by Norman Weldon.

Ore found can be treated at the Houghten Mill. An incompleted mill on Big Creek about 12 miles away can be completed and rented on a daily basis.

GEOLOGY AND ORE DEPOSITS

The Hilltop mine is on a sharp narrow saddle on the western flank of the Sierra Nevada. The mine is in the easternmost of three areas of metamorphosed calcareous rocks in sec. 19 (projected), T. 11 S., R. 26 E., shown on the geologic map of the area by Krauskopf[1].

---

[1] Krauskopf, K. B., 1953, Tungsten deposits of Madera, Fresno, and Tulare Counties, California: Calif. Div. Mines Sp. Rept. 35, Pl. 1.

The mine is several hundred feet south of the northern edge of the metamorphosed limestone area. North of the meta limestone, the country rock is micaceous schist and minor interbedded silicified and silicated calcareous beds, in places intruded by granite to form an injection gneiss (migmatite). The general trend of the schist and injection gneiss is easterly and dips are from vertical to 60° S.

The metamorphosed calcareous rocks consist of silicified and silicated limestone. Several beds within the limestone were converted to tactite containing garnet, epidote, quartz, feldspars, mica, and scheelite. The beds are contorted and strike in many directions from north to east, and dip from 20° S to 80° NE (fig. 3). They are cut by two easterly-trending major

faults and numerous minor faults.

The ore deposits are contained within the tactite beds in the meta limestone. A bed explored by a short adit is 4 feet wide, strikes N 55° E and dips 60° SE, and is exposed vertically for 25 feet. It is probably cut off at less than 100 feet below the surface by the southernmost fault (fig. 3). What may be the same bed crops out on the east side of the saddle. Other tactite beds or bodies are exposed south of the southernmost fault.

These highly contorted metamorphosed calcareous rocks, fractured by faults and adjacent to the granitic intrusive body, are favorable hosts for tungsten deposits (Krauskopf, p. 9). However, material exposed contains less than 0.4 percent WO_3, and is in small, apparently discontinuous bodies erratically distributed in the contorted limestone.

SAMPLING

Three scheelite-bearing tactite samples were collected with locations shown in figure 3.

Sample No.	Length, feet	% WO_3	Location and Remarks
B-8	1.5	0.17	North side of adit, 10 ft. from portal, waist high cut.
B-9	2.0	*0.01	Floor of adit, 5 ft. from portal.

Sample No.	Length, feet	% WO_3	Location and Remarks
B-10	1.5	0.39	South of adit, in open cut, on east side of ridge.

*less than

ORE RESERVES

The only ore reserves now known or inferred are contained in the 4-foot tactite bed. This bed is exposed on two sides for 50 feet along the bed and 25 feet down the dip, and contains 500 tons of measured ore; 2,000 tons of indicated ore in a block 100 feet long, 50 feet deep, and 4 feet wide adjacent to, on the ends of, and below, the measured ore; and 4,000 tons of inferred ore in a zone 100 feet long, 100 feet deep, and 4 feet wide adjacent to, on the ends of, and below the indicated ore. The grade of the reserves of all classes is between 0.3 and 0.4 percent WO_3. A factor of 10 cubic feet/ton is used in calculating ore reserves.

EXPLORATION PROPOSAL

The low grade and small size of the target does not justify an exploration program of the magnitude proposed , or Government participation in any program. Bulldozer trenching by the applicant along the west side of the saddle, to determine the continuity of the tactite zone, and estimated to cost only a few hundred dollars, may be warranted.

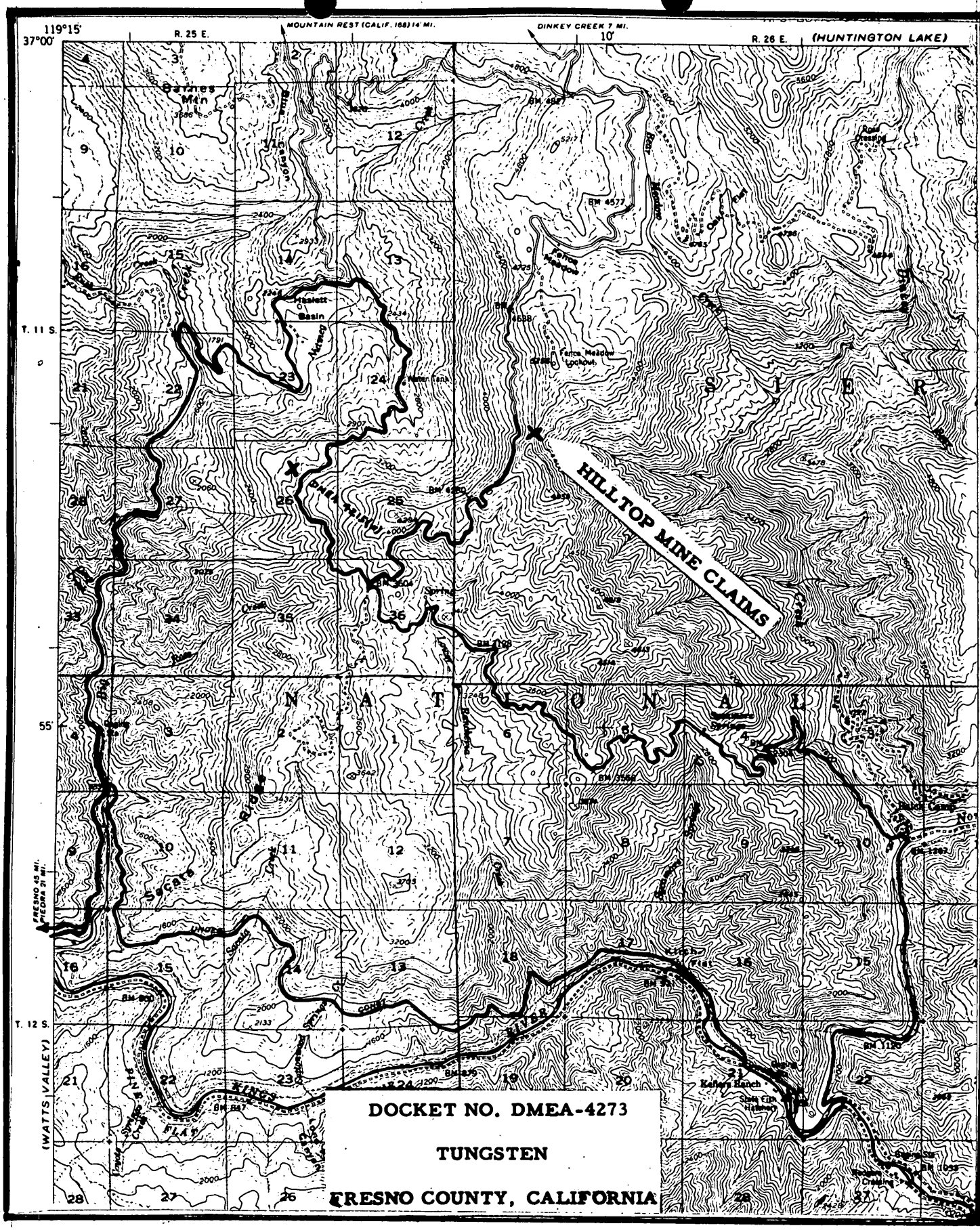

FIG. 1 LOCATION MAP CALIFORNIA

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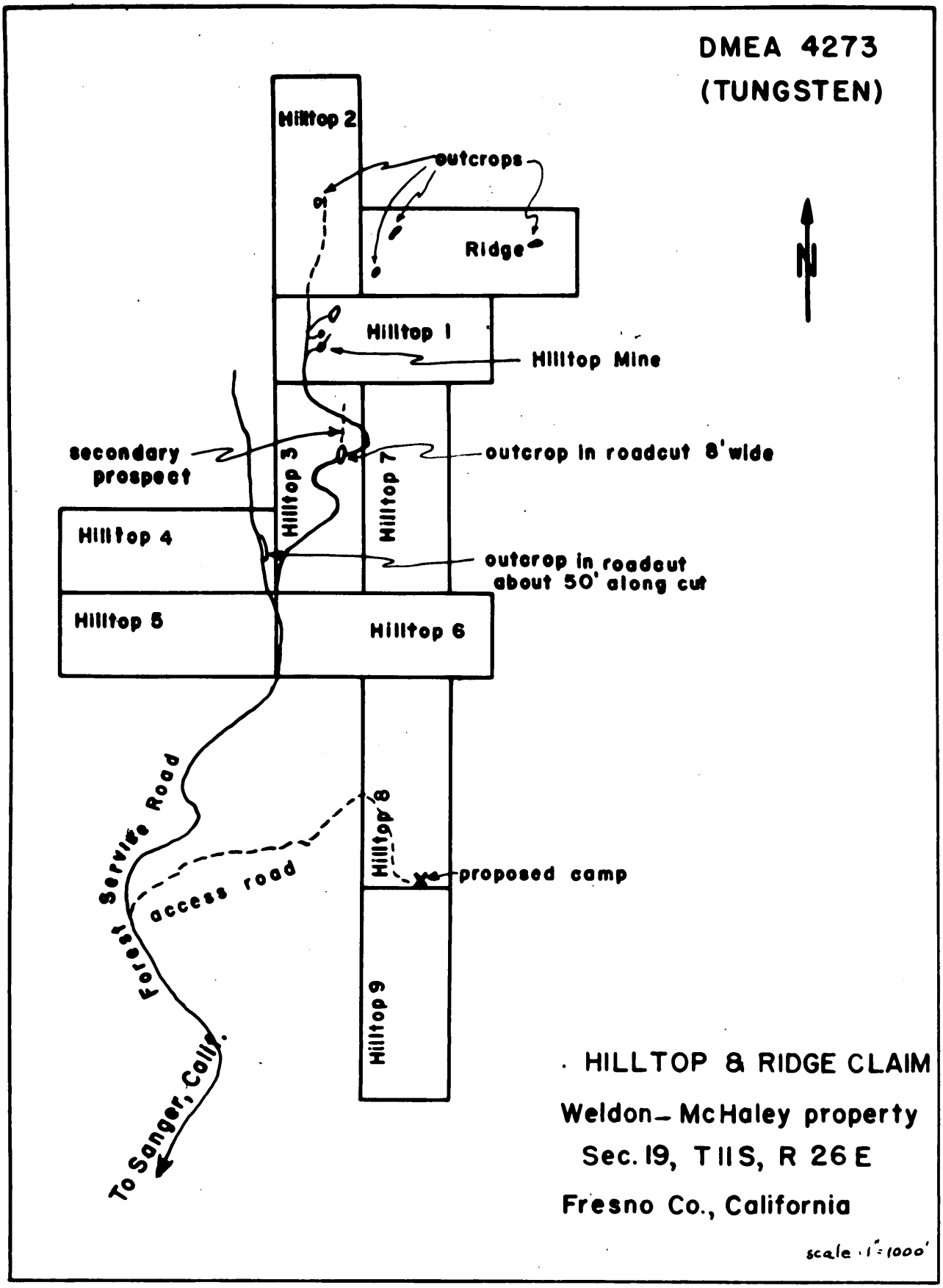
DMEA 4273
(TUNGSTEN)
Hilltop 2
outcrops
Ridge
N
Hilltop 1
Hilltop Mine
secondary prospect
Hilltop 3
Hilltop 7
outcrop in roadcut 8' wide
Hilltop 4
outcrop in roadcut about 50' along cut
Hilltop 5
Hilltop 6
Forest Service Road
Hilltop 8
access road
proposed camp
Hilltop 9
To Sanger, Calif.
HILLTOP & RIDGE CLAIM
Weldon – McHaley property
Sec. 19, T11S, R 26E
Fresno Co., California
scale 1" = 1000'

FIGURE 2

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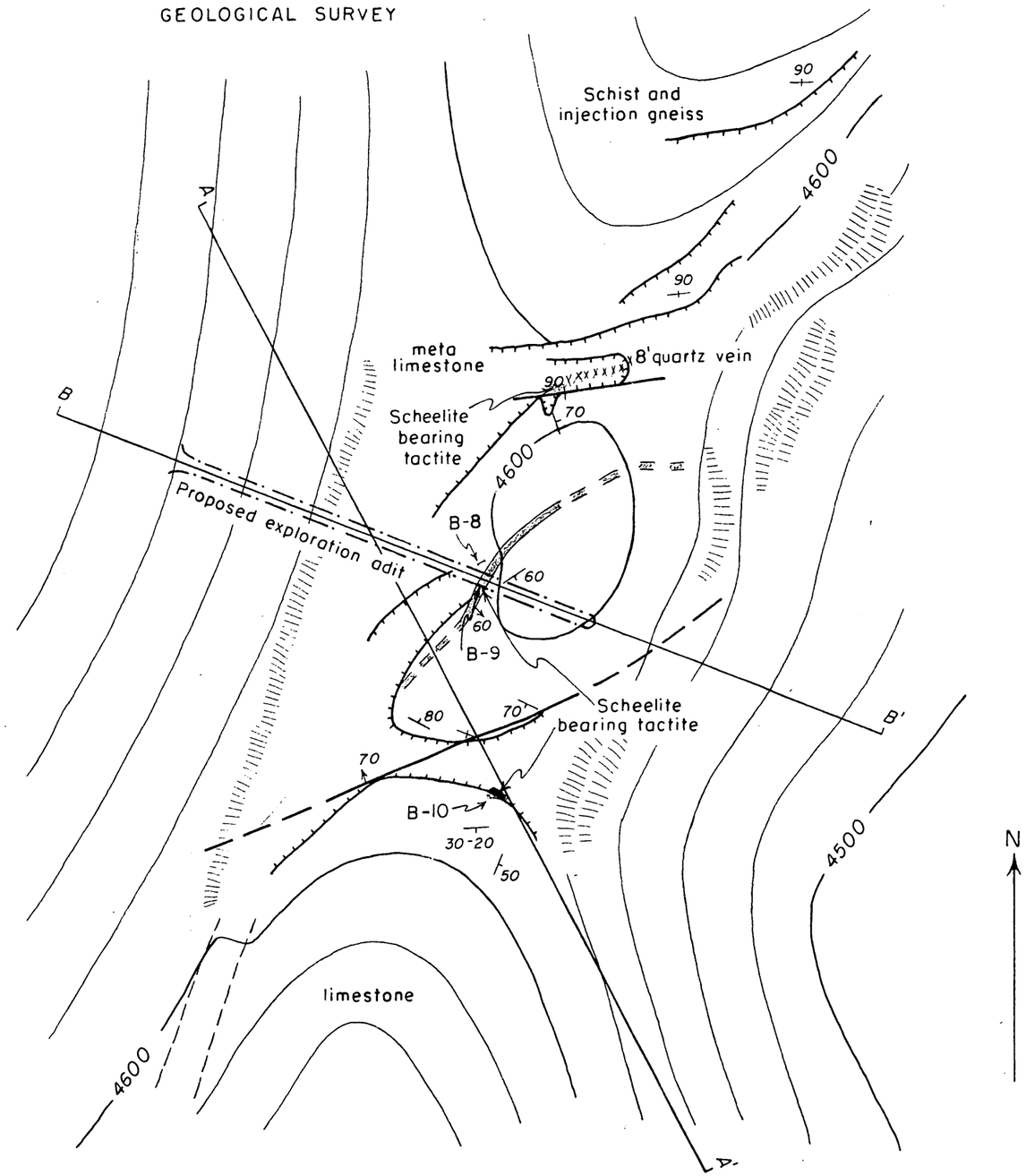
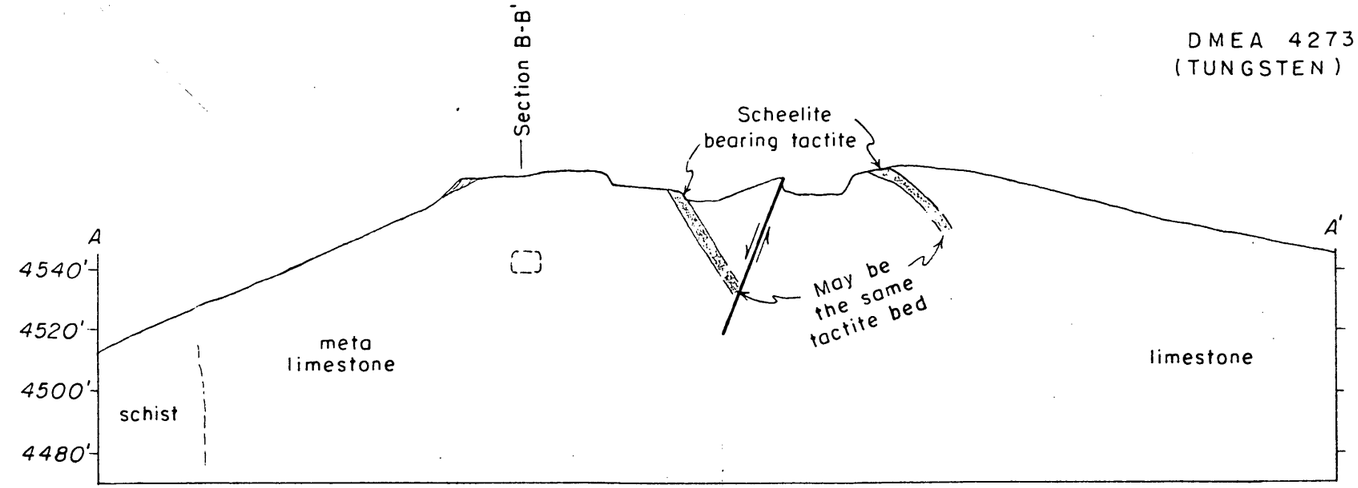
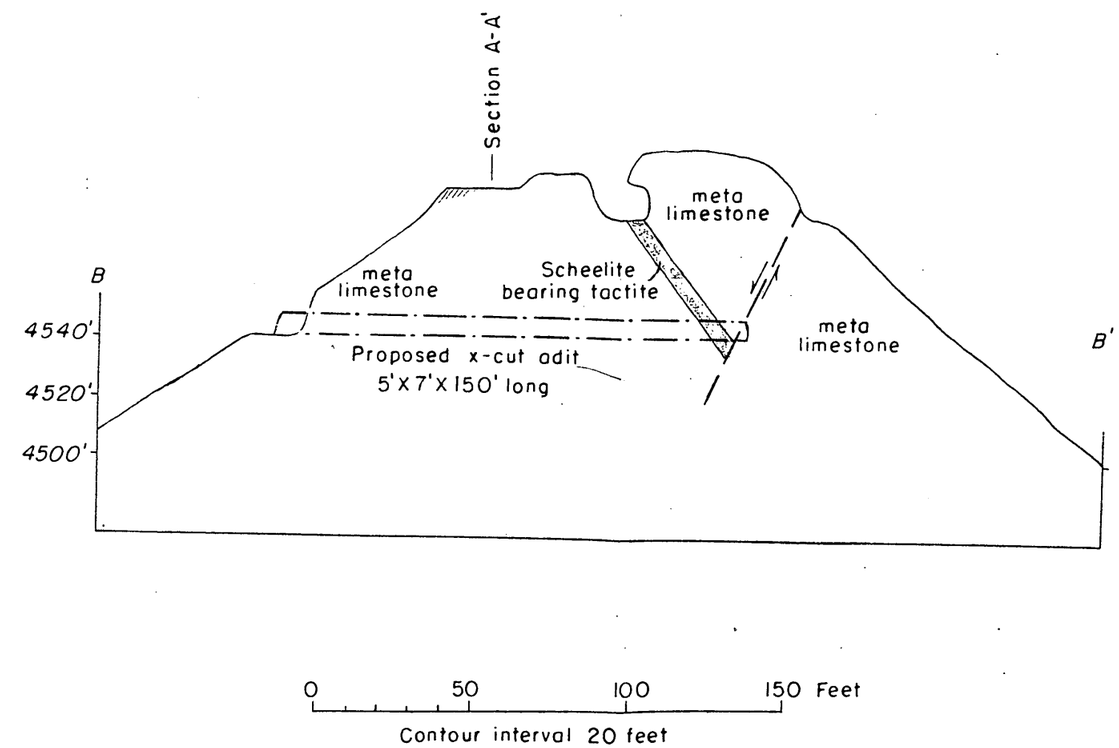
JUN 1 8 1956

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4273
(TUNGSTEN)







HILLTOP MINE, FRESNO COUNTY, CALIFORNIA

Figure 3

DOCKET
SURNAME
400 Holt
Martin
Fehrman

MAY 28 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4273 - Tungsten
Weldon Brothers
Hilltop Mine
Fresno County, California

Dear Mr. Ricker:

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

Copies of memoranda dated May 2 and 14, 1956, by N. E. Nelson, Geological Survey, and R. W. Holliday, Bureau of Mines, respectively, relating to the project are enclosed.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (WSM)

APPROVED:

/s/ Robert W. Geehan (RWG)
Member, Bureau of Mines

Thor H. Kiilsgaard (THK)
Member, Geological Survey

TLChapman/fec
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosures

R.C.L.

DOCKET
SURNAME

400 Holt
Martin
Kilsgaard
Gechon
T Johnson

MAY 23 1956

Weldon Brothers
Box 39
Trimmer Route
Sanger, California

Re: Docket No. DMEA 4273 - Tungsten
Hilltop Mine
Fresno County, California

Gentlemen:

The above docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, and is being referred to Mr. Spangler Hicker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

Any assistance that you may give the members of the Field Team will be appreciated.

Sincerely yours,

G. O. Mittendorf

Administrator

TLChapman/fec
5/21/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

A.C.L.

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

Wrobel

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MAY 16 1956

May 14, 1956

W39

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Subject: Application
Docket No. DMEA 4273
Hilltop Mine-Fresno County, California
Norman S. Weldon, Box 39
Trimmer Rt., Sanger, California
$24,400.25-Tungsten

Subject application proposes 300 feet of drift and crosscut and 1000 feet of road. Additional information is necessary for appraisal particularly regarding feasability of the proposed method of exploration.

Referral to the field for appropriate action is recommended.

R W Holliday
R. W. Holliday

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Blackel

IN REPLY REFER TO:

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

May 2, 1956

Re: DMEA 4273
Weldon Bros.
Hilltop Mine
Fresno Co., California
$24,400.25 - Tungsten

WSM

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicants request assistance in exploring for the downward extension of a scheelite-bearing tactite outcrop. An assay certificate reporting 4.26% WO_3 is part of the application, but we are not told what the sample represents. A map shows seven places where tactite crops out but no other samples appear to have been taken. Thus the application is based on one sample and seven scattered outcrops, but in the words of the consulting geologist " . . . it is felt some of the outcrops connect." Sampling is not mentioned by the consultant. The proposed underground work probably is not yet warranted. The proposed program consists of:--

Labor and consultants	$ 7,037.50
Roads and pioneering	3,000.00
Buildings	4,876.75
Equipment (large), Cost and rental	7,036.00
Equipment (small tools)	250.00
Contingencies	2,200.00
Total	$24,400.25

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MAY 3 - 1956

Total 300 feet adit, or $81.33/ft.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

Copy retained 400

N. E. Nelson

April 30, 1956
Subject: DMEA-4273
Re: Exploration Assistance
Hilltop Mine

Weldon Brothers
Box 39
Trimmer Rt.
Sanger, California

Gentlemen:

The receipt of your application dated April 25, 1956, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4273 and referred to the Iron & Ferro-Alloys Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

April 30, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region II

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 II.

DMEA - 4273 Weldon Brothers

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

dmea

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

1605 Evans Avenue
Reno, Nevada

April 27, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application - Tungsten
Norman S. Weldon
Hilltop Mine
Fresno County, California

Attached are three sets of MF-103, Application for Aid forms, relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

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APR 30 1956

BUREAU OF MINES
WASHINGTON, D. C.
APR 30 9 32 AM '56

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

1605 Evans Avenue
Reno, Nevada

April 27, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application - Tungsten
Norman S. Weldon
Hilltop Mine
Fresno County, California

Attached are three sets of MF-103, Application for Aid forms, relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

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APR 30 1956

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-4273
Metal or Mineral Tungsten
Date Received 4/30/56
Estimated Cost $24,400.25
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: WELDON BROS. A PARTNERSHIP, CALIF.
Norman S. Weldon, Box 39, Trimmer Rt., Sanger, Calif. Phone Sanger 4259
John C. Weldon, P.O. Box 891, Madera, 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 Ten (10) claims located within the boundary of the Sierra National Forrest in the Dinkey Creek Mining District, Section 19 Township 11S, Range 26E

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Weldon Bros. - 2/3 interest. Jack McHaley - 1/3 interest.

(*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. Attached is lease from Jack McHaley for his 1/3 interest.

(*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. Refer to Page 1

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. Refer to Page 2

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

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

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Refer to Page 2

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Manpower, materials, supplies & equip. available in Fresno. Water available from a year-around spring on property. No power available.

16—66551-1

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APR 30 1956

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. Refer to Page 3

(*c*) The work will start within 3 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. Refer to page 3

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. Refer to page 4

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. Refer to page 4

(*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. Refer to page 4

(*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. NONE

(*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. Page 4

(*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. Refer to page 4

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. Page 4

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 [X] Other

Explain in detail on acompanying paper. Refer to page 5

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 25, 1956

WELDON BROS.
(Applicant)

By Norman L. Weldon CO-OWNER

BOX 39, TRIMMER RT.

SANGER, CALIFORNIA

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

man S. Weldon
Box 39, Trimmer Rt., Sanger, Calif.

Question 3.

(f) Mineral claims recorded at the County Recorders Office, Fresno, California:

	BOOK	PAGE
Ridge Mine	3329	36
Hilltop #1	3329	37
Hilltop #2	3377	481
Hilltop #3	3377	482
Hilltop #4	3470	117
Hilltop #5	3470	115
Hilltop #6	3470	113
Hilltop #7	3470	111
Hilltop #8	3470	109
Hilltop #9	3470	107

Norman S. Weldon
Box 39, Trimmer Rt., Sanger, Calif.

Question 4

(a) Exploration of Hilltop #1 claim has been conducted on a minor scale by us as Weldon Bros., consisting of pioneering roads, blasting and bulldozing overburden away from out-cropping. We have found tactite bearing tungsten, (refer to attached contour sketch). Existing mine workings and production facilities - none on the property. Approximately 2 hr. drive from Fresno, Calif.

(d) Access roads approx. 7/8 mi. dirt road; approx. 65 mi. to concentrates shipping points and supply point; approx. 25 mi. to nearest possible residents.

Norman S. Weldon
Box 39, Trimmer Rt., Sanger, Calif.

Question 5

(b) Bench and face off for exploration tunnel, 50' to 75' below present workings on West slope of Hilltop #1. Portal of tunnel to be determined by uncovered facing. Tunnel will be approx. 120' long in an Easterly direction to terminate under existing drift, at which point there will be a Northerly cross cut to terminate under existing open cut, approx. 120' long, then in a Southerly direction for approx. 60' - making a total of approx. 300 ft. of tunnel. This work is to be completed under this contract, unless a body of ore, satisfactory to both parties, is discovered; in such case the remainder of the tunnel footage to be used on the Secondary Prospect designated on the General Layout drawings.

Bulldozing and pioneering work will be as follows: 1000 ft. of road from Hilltop #1 to Hilltop #2; 1/2 mi. road from Forest Service Rd. to proposed camp site on Hilltop #8 (refer to General Layout drawing).

(d) Norman Weldon, Superintendent

1936 - 1940	Construction & maintenance of roads and camps, U. S. Forest Service
1940 - 1942	Heavy equipment operator for various contractors
1942 - 1945	Job Superintendent for a general contractor
1945 - 1956	Self employed

Norman E. Weldon
Box 9, Trimmer Rt., Sanger, Calif.

Question 6 Estimate of costs

(a) Independent contracts: NONE

(b) Labor, supervision, consultants:

1 Miner	$2.25 per hr.	$ 90.00 per wk.	
1 Mucker	1.75 per hr.	70.00 per wk.	
1 Laborer	1.00 per hr.	40.00 per wk.	
1 Cook		50.00 per wk.	
1 Sup't.		100.00 per wk.	
Payroll contingencies		52.50 per wk.	
	TOTAL PER WEEK	$402.50	
	ESTIMATED TOTAL (15 WEEKS)		$ 6037.50

Engineering & geological consultants 1000.00

(c) Operating materials & supplies:

3 shovels	2 2-ft. steel	
3 picks	2 4-ft. steel	
2 crow-bars	2 6-ft. steel	
1 axe	3 bits, 1 3/4 carburandum	
1 florescent lamp	2 50 ft. air hoses	
1 blasting battery	APPROXIMATE TOTAL	250.00

(d) Operating equipment:

1 D-8 Caterpillar w/ bulldozer, 200 hrs. @ $15.00 per hr. operated & maintained	$3000.00	
1 Ingersoll Rand 125 CFM compressor w/ jack hammer & one jack drill, $301.00 per month rental	1806.00	
Powder, caps, steel, bits & misc. for ~~moving~~ tunnel	2670.00	
1 Mine car (used) $100.00 w/ 800 ft. 12-lb. rail $80.00 purchased	180.00	
1 1956 Chevrolet 1/2 ton pickup furnished by Weldon Bros.	2380.00	
TOTAL		10,036.00

(e) Rehabilitation and repairs: NONE

(f) New buildings, improvements, installations:

1 building 14' x 20' cookhouse & 1 bedroom, material cost	1680.00	
1 building 6' x 8' bath house, material cost	288.00	
1 building 12' x 16' bunk house, material cost	1159.00	
600' .01" galvanized pipe	186.00	
1 portable shower bath	54.00	
Spring development	150.00	
Labor on building	676.00	
Kitchen equipment	683.75	
TOTAL		4876.75

(g) Miscellaneous: Refer to 6-(b)

(h) Contingencies:

For over-all project 2200.00

ESTIMATED TOTAL COST OF PROJECT $24,400.25

Norman S. Weldon
Box 39, Trimmer Rt., Sanger, Calif.

Question 7

(a) Yes

(b) Estimated cost of project $24,400.25

Money:			
$1000.00 cash		$1000.00	
Use of equip. owned by us:			
1 1956 pickup	$2380.00		
Operating supplies listed in 6-c	250.00		
TOTAL		2630.00	
Other:			
Building materials:			
1 building 14' x 20'	$1680.00		
1 building 6' x 8'	288.00		
1 building 12' x 16'	1159.00		
TOTAL		3127.00	
OUR COST TOTAL			6,757.00
DMEA LOAN COST			$17,643.25

Norman S. Weldon
Box 39, Trimmer Rt., Sanger, Calif.

REMARKS:

Our estimates of contract costs by unit:

Tunnel 4' x 7' x 300', $29.00 per ft.	$8700.00
Roads and pioneering	3000.00
Building improvements and installation	4876.75
Mine car & track	180.00
Compressor rent	1806.00
1956 pickup	2380.00
Small tools	250.00
Contingencies	2200.00
TOTAL	$23,392.75

Mining Lease

This Indenture *made the* 24th *day of* April *one thousand nine hundred and* fifty-six

Between JACK McHALEY and ROWENA McHALEY, husband and wife,

*lessor*s

and NORMAN S. WELDON and JOHN C. WELDON

*lessee*s

Witnesseth: *That the lessor*s*, in consideration of the rents, royalties, covenants, and agreements hereinafter reserved, let unto the lessee*s*, the* ~~following described~~ *mines and mining property, situated in* the Dinkey Creek Mining District, ~~Mining District~~, *County of* Fresno, *State of* California, ~~to wit:~~ described in Exhibit "A" attached hereto and by this reference made a part hereof.

Together *with the appurtenances*

To Have and to Hold *unto the said lessee*s *for the term of* one (1) year

from the date hereof, expiring on the 24th *day of* April, *19* 56

And the lessee covenant with the lessor as follows, to wit:

To enter upon said mine or premises and work the same in manner necessary to good and economical mining, so as to properly mine and produce tungsten and other ores which may be produced from said claims *with due regard to the safety, development, and preservation of the said premises as a workable mine;*

To work and mine said premises as aforesaid steadily and continuously from the date of this lease; ~~and that failure to work said premises with at least ... persons employed ... ground for the space of ... consecutive days may by the lessor be considered a violation of this covenant.~~

To sufficiently timber said mine and to repair all old timbering wherever necessary;

*To allow the lessor*s *and* their *agents to enter into all parts of said mine to inspect it;* and to post such notices for their protection as they may deem advisable.

*Not to assign this lease, or any interest thereunder, and not to sublet said premises or any part thereof, without the written assent of the lessor*s, *and not to allow any other person to take possession of said premises or any part thereof under any pretense whatever;*

To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices, or mineral deposits of any kind which may be discovered in working under this lease, or in any tunnel run to intersect said ...... lode, or by the lessee...... or any person or persons under them *in any manner at any point within* three hundred (300) *feet of the center line of said lode, as the property of said lessor*s*; with privilege to the lessee*s *of working the same, as an appurtenance of said premises, during the term of this lease; and not to locate or record the same, or allow the same to be located or recorded, except in the name of the lessor*s*;*

To keep at all times the drifts, shafts, tunnels, and other passages and workings of said premises thoroughly drained and clear of loose rock and rubbish of all kinds;

EXHIBIT "A"

EXHIBIT "A" MINING CLAIMS

NAME OF MINING CLAIM AND LOCATION	RECORDING DATA
1. Ridge Mine Fence Meadow Lookout Station is 3/4 mile north of center location, Twp. 11 S., Sec. 19, Rge. 26 E. 500 feet west and 1000 feet east Dinkey Creek Mining District, Fresno County	Book 3329 Page 36 Fresno County Records 7/13/53
2. Hill Top Mine Fence Meadow Lookout Station is 1/2 mile North of point of discovery, Sec. 19, Twp. 11 S., Rge. 26 E. 300 feet west and 1200 feet east Dinkey Creek Mining District, Fresno County	Book 3329 Page 37 Fresno County Records 7/13/53
3. Hill Top Mine No. 2 Fence Meadow Lookout is 1/2 mile north of point of discovery Sec. 19, Twp. 11 S., Rge. 26 E. 1500 ft. southwesterly direction Dinkey Creek Mining District, Fresno County	Book 3377 Page 481 Fresno County Records 12/8/53
4. Hill Top Mine No. 3 Lookout Station (Fence Meadow) is 1/4 mile north of point of discovery 1500 feet north from point of discovery Sec. 19, Twp. 11 S., Rge. 26 E. Dinkey Creek Mining District, Fresno County.	Book 3377 Page 482 Fresno County Records 12/8/53
5. Hill Top Mine No. 4 Fence Meadow Road approximately 1/2 mile southwest of Fence Meadow Lookout Station, Sec. 19, Twp. 11 S., Rge. 26 E. 100 ft. east to boundary on Hill Top Claim #2 and 1400 ft. westerly Dinkey Creek Mining District, Fresno County	Book 3470 Page 117 Fresno County Records 7/14/54
6. Hill Top Mine No. 5 On Dinkey to Fence Meadow Road, approx. 1/2 mile south of Fence Meadow Lookout Station 100 feet East to Boundary of Hill Top No. 6, and 1400 ft. westerly	Book 3470 Page 115 Fresno County Records 7/14/54
7. Hill Top Mine No. 6 Approximately 3/4 mile south of Fence Meadow Lookout Station, Sec. 11 S., Rge. 26 E. Dinkey Creek Mining Dst.	Book 3470 Page 113, Fresno County Records 7/14/54
8. Hill Top Mine No. 7 Approximately 3/4 mile south of Fence Meadow Lookout Station, Sec. 19, Twp. 11 S., Rge. 26 E. West 300 feet to boundary of Hill Top No. 9, East 300 feet, Dinkey Creek Mining District.	Book 3470 Page 111 7/14/54
9. Hill Top Mine No. 8 Approximately 1 mile south of Fence Meadow Lookout Station, Sec. 19, Twp. 11 S., Rge. 26 E. 400 feet north to Boundary of Hill Top No. 6, 1100 feet south to Boundary of Hill Top No. 9 Dinkey Creek Mining Dst.	Book 3470 Page 109 7/14/54
10. Hill Top Mine No. 9 Approximately 1½ miles south of Fence Meadow Lookout Station, Sec. 19, Twp. 11S., Rge. 26E. 900 feet northerly to boundary of Hill Top. No. 8 600 feet south, Dinkey Creek Mining District	Book 3470 page 107 7/14/54

Lessors reserve a rental or royalty equal to thirty-three and one-third per cent (33-1/3%) of ten per cent (10%) of all ores extracted from said premises during the period of this lease, and lessees covenant and agree to pay and allow lessors as royalties upon all ores mined, shipped or sold from said leased premises in any manner during the life of this lease, ten per cent (10%) of all such ores shipped, sold or mined;

To deliver up to the lessors the premises, with the appurtenances and all improvements, in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing) without demand or further notice, on said 24th *day of* April, *19*57, *at noon, or at any time previous upon demand for forfeiture;*

And upon the violation by the lessees, or any other person under him, of any covenant herein reserved, the term of this lease shall, at the option of the lessors, expire and the lease and premises with the appurtenances shall become forfeited to the lessors and the lessors or their *agent may, after demand of possession enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of the lessors, or in any other manner.*

This lease shall be binding upon and enure to the benefit of the heirs, executors, administrators, and assigns of the respective parties.

In Witness Wherreof *the parties hereto have executed these presents the day and year first above written.*

Jack Jackie Haley	Norman L. Weldon Jr.
Rowena McHaley	John C. Weldon

State of California, } ss.

County of FRESNO

On this 24th day of April in the year of our Lord one thousand nine hundred and fifty-six, before me, WM. C. CROSSLAND a Notary Public in and for the said County of Fresno, State of California, residing therein, duly commissioned and sworn, personally appeared JACK McHALEY, ROWENA McHALEY, NORMAN S. WELDON and JOHN C. WELDON

known to me to be the persons described in and whose names subscribed to the within instrument, and acknowledged to me that they executed the same.

In Witness Whereof I have hereunto set my hand and affixed my official seal in said County the day and year in this certificate first above written.

Wm C Crossland

Notary Public in and for the County of Fresno, State of California.

My commission expires February 1, 1958

Mining Lease

TO

Dated, 19

Recorded at the Request of

, 19

at min. past o'clock M.,

in Volume of

page

County Records.

Recorder

By Deputy Recorder

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

ANALYTICAL & INDUSTRIAL CHEMISTS
CONSULTING ENGINEERS
TESTING & INSPECTION

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BRANCH OFFICES
1635 W GAYLORD ST
P O BOX 1228
LONG BEACH
HEMLOCK 5-7493
NEVADA 6-5176

3185 N 6TH EAST
P O BOX 978
PALMDALE

April 30, 1[illegible]

[illegible] - Mr. [illegible]man [illegible]elion
[illegible]
Inlmman St.
[illegible], California

[illegible]
Received April 1[illegible], 1[illegible]

Report [illegible]

Purchase Inlerlie, [illegible] - - - - - - - [illegible]

[illegible]

[illegible]

The Hillton and connected claims were staked for the purpose of mining the mineral Scheelite. The Scheelite occurs in Tactite of various forms. The garnet rich variety of Tactite dominates.

On the Hillton claims #1, 2 & 4, the Tactite occurs with mica schist and granite. None of the roof remnent is in evidence. Indications of contortion during the metasomatic process are quite marked. All of the areas between outcrops on the worked portion of Hilltop # 1 (see sketch) have not as yet been striped of mantle but it is felt some of the outcrops connect.

The outcrop in the roadcut on Hillton claim # 3 shows a vein of Tactite approximately 8 feet wide standing nearly vertical. It's plane follows that of the surrounding hornfels which crop out over an area of several acres. Granite outcrops to the south about 70 yards down slope. No contact has been uncovered.

None of the other claims are here described as the exploratation work contemplated covers only the areas mentioned.

W. M. Abell
Consulting Geologist

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

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2. Void previous block.
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~~Mr. Kilsgaard~~	RUN / STOP		RUN / STOP
Mr. Martin Room 3538, Interior	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
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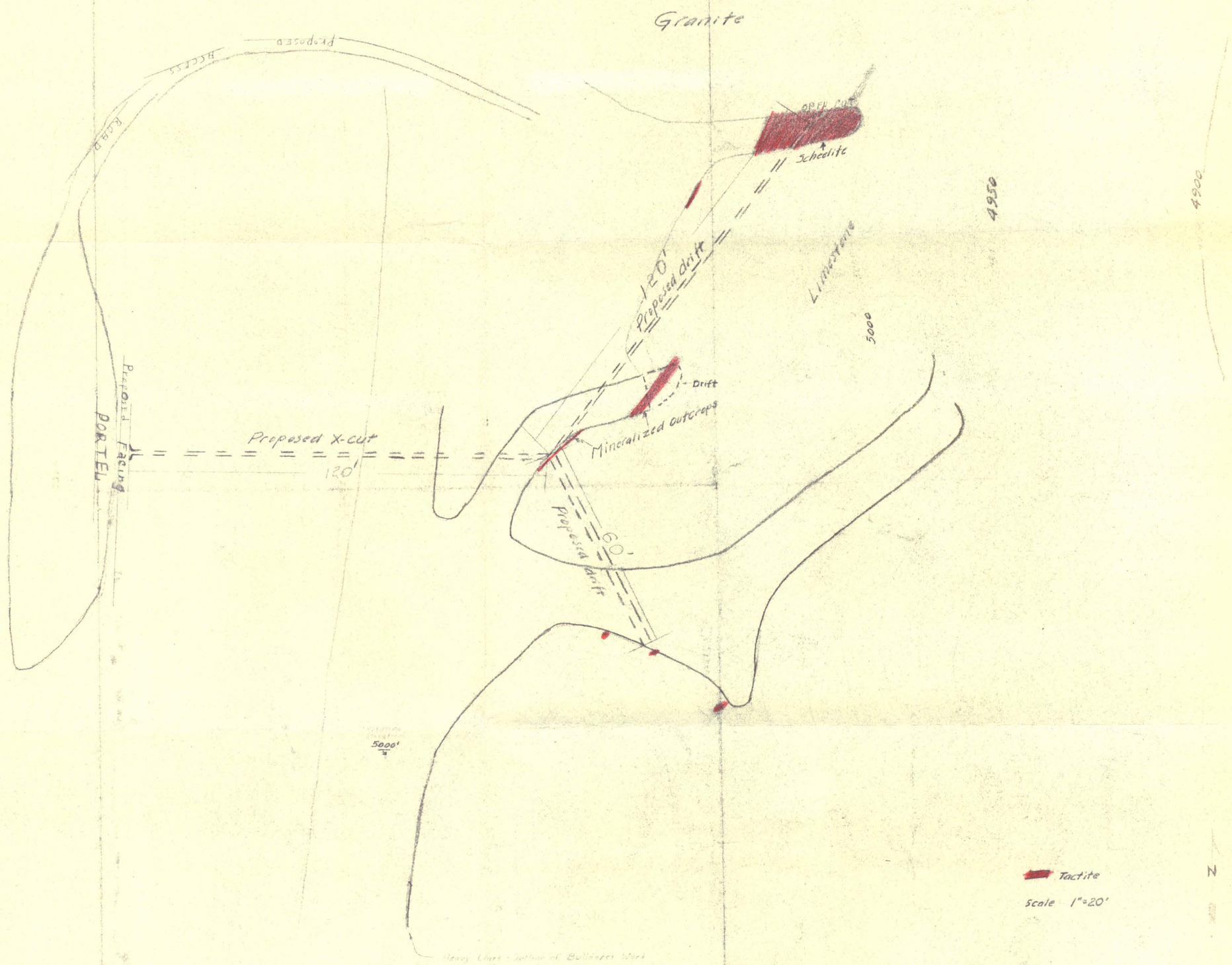
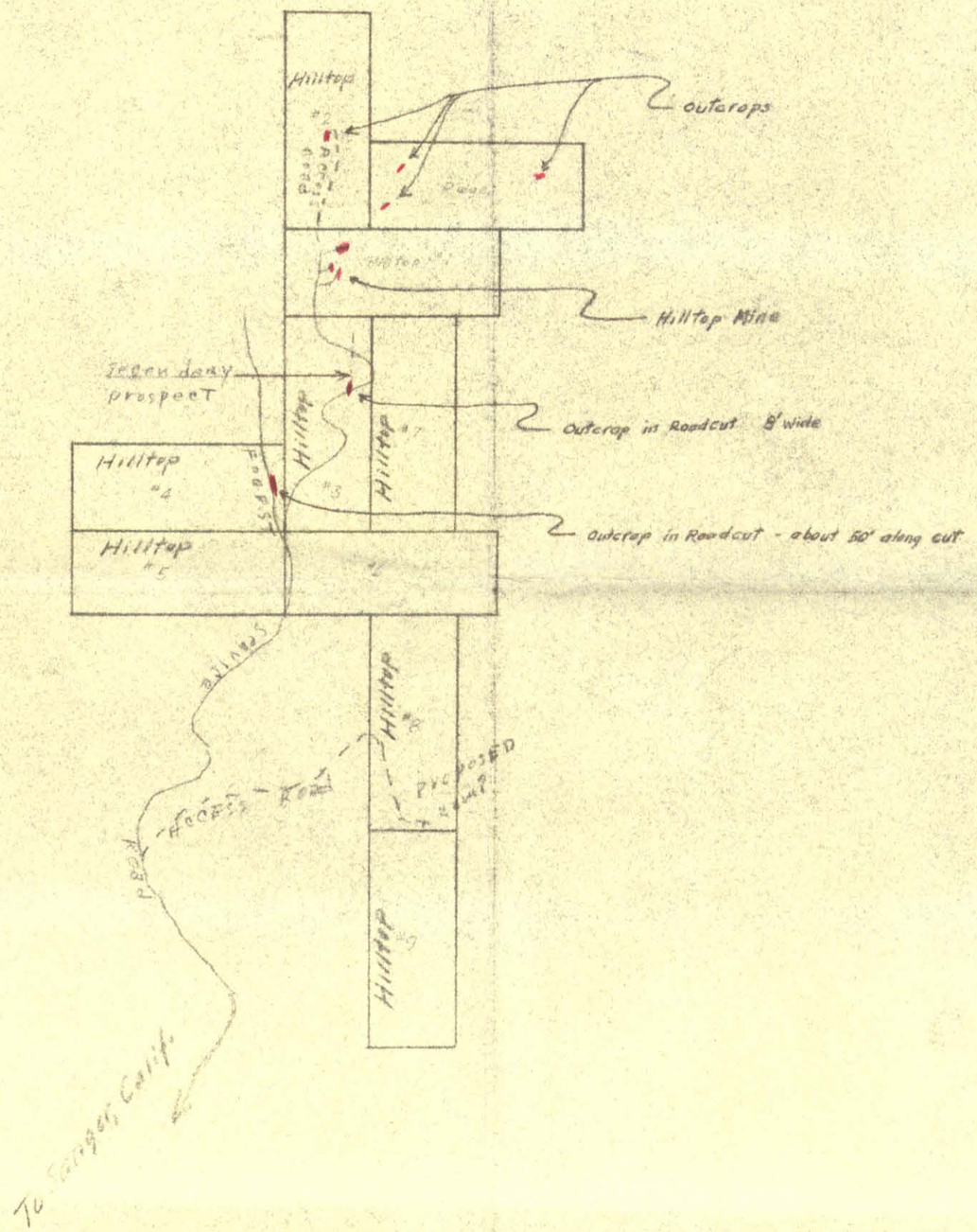


HILLTOP MINE
WELDON-McHALEY OWNERS
CONTOUR SKETCH
APRIL 1956
K.M. ABELL GEOLOGIST



GENERAL LAYOUT
HILLTOP + RIDGE CLAIMS
SEC. 19 T11S R26E
Held by Weldon - McHaley
April, 1956
Scale 1" = 1000'