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DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3516

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400 Rutledge
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JAN 31 1955

Mr. Duke O. Whitt
Dunlap, California

Re: Docket No. DMEA 3516 - Tungsten
Dixie Ridge claim
Fresno County, California

Dear Mr. Whitt:

Reference is made to the above-docketed application for exploration assistance, your letter of December 1, 1954, and our reply of December 8. The Field Team report on its examination of the Dixie Ridge claim has now been received.

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

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

Careful study of all our information, although noting the occurrence of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
1-27-55
cc to: Docket
Code 400
Adm. Reading File
Operating Committee
FT. REG. II
W. McInnis, USBM
Thor H. Kiilsgaard, USGS

R.C.J.

400

DOCKET
SURNAME
Rutledge
McDonald

January 27, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $12,073.65
Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

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

1. A prior application for exploration assistance, that included the Dixie Ridge claim, by Mr. Whitt, (Docket No. DMEA 696), was denied by letter of February 19, 1951. The Field Team reports that no additional exploration work of consequence has been done since the property was examined in 1951.

2. Tungsten mineralization at the Dixie Ridge prospect appears to be localized in tactite that has been formed from the more calcareous layers in metamorphosed sedimentary rocks intruded by granitic rock. The tungsten occurs in the form of scheelite and powellite locally disseminated through the tactite. The tactite layers, ranging from six inches to six feet in thickness, parallel the schistosity of the metamorphosed sedimentary rocks.

Three separate tactite bands are exposed on the Dixie Ridge No. 1 claim. At the two more favorable occurrences, the tungsten mineralization is concentrated in two 6 to 12-inch bands along the edges of the zones separated by barren siliceous tactite.

The examining field team took two samples of the tactite exposed in the north zone and two specimen samples of the best grade of material present as follows:

Sample No.	% WO_3	Description
1	0.64	Chip sample across 2.7 feet of mineralized tactite exposed in upper cut, at site proposed for shaft and open-cut work.

P.C.G.

Sample No.	% WO_3	Description
2	2.38	Specimen sample of sorted ore from above site.
3	0.12	Chip sample across 0.7 foot of best mineralization shown in lower open cut.
4	0.28	Specimen sample of mineralized material sorted at lower cut.

The Field Team estimated approximately 60 tons of 0.64 percent WO_3 to be indicated at the prospect and concluded that it is unlikely that more than 500 tons of tactite containing less than 0.1 percent WO_3 may be inferred.

3. As the scheelite mineralization on the Dixie Ridge claim is low grade and occurs locally in narrow bands averaging one foot in thickness, and the reserves are quite small, the examining field team recommended that the applicant's request for a DMEA loan be denied.

4. The Field Team concur in the above recommendation.

5. The Commodity Division of the Geological Survey recommends denial.

6. The Commodity Division of the Bureau of Mines concurs.

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

FARUTLEDGE:foc
1-27-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

January 27, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $12,073.65
Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
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3. As the scheelite mineralization on the Dixie Ridge claim is low grade and occurs locally in narrow bands averaging one foot in thickness, and the reserves are quite small, the examining field team recommended that the applicant's request for a DMEA loan be denied.

4. The Field Team concur in the above recommendation.

5. The Commodity Division of the Geological Survey recommends denial.

6. The Commodity Division of the Bureau of Mines concurs.

W S Martin

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

Docket

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 25 1955

January 20, 1955

Re: DMEA-3516
Duke O. Whitt
(Dixie Ridge Claims)
Fresno Co., Calif.
$12,073.05 - Tungsten

WSM

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 Dixie Ridge claim was previously denied assistance in 1951 in connection with application DMA-696X.

The Field Team states that no extensive prospecting or exploration work has been done since the time of this earlier denial. As a result of their examination and sampling, the Field Team has estimated that reserves on the property may total about 584 tons with most of this tonnage averaging less than 0.1 percent WO_3.

I noted that the Field Team questioned the competency of the operator to carry out the proposed exploration and to participate financially in the work.

The tungsten mineralization exposed on the property is mainly low grade ore occurring in narrow bands. The chances are poor that a significant discovery would be made by the operator's proposed exploration work. I concur with the Field Team's recommendation and reaffirmation that the Dixie Ridge property be denied DMEA exploration assistance.

E. L. Newcomb

E. L. Newcomb

Copy retained 400

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
JAN 25 1955

January 20, 1955

Re: DMEA-3516
Duke O. Whitt
(Dixie Ridge Claims)
Fresno Co., Calif.
$12,073.05 - Tungsten

Memorandum

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E. L. Newcomb

ELNewcomb:hlm
G-1/20/55

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

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
JAN 25 1955

January 20, 1955

Re: DMEA-3516
Duke C. Whitt
(Dixie Ridge Claims)
Fresno Co., Calif.
$12,073.05 - Tungsten

Memorandum

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I noted that the Field Team questioned the competency of the operator to carry out the proposed exploration and to participate financially in the work.

The tungsten mineralization exposed on the property is mainly low grade ore occurring in narrow bands. The chances are poor that a significant discovery would be made by the operator's proposed exploration work. I concur with the Field Team's recommendation and reaffirmation that the Dixie Ridge property be denied DMEA exploration assistance.

E. L. Newcomb

ELNewcomb:hlm
G-1/20/55

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

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

Docket

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

January 4, 1955

Memorandum

W349

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3516 - Tungsten
Duke O. Whitt
Dixie Ridge Claim
Fresno County, California

Reference is made to your letter of October 11, 1954, requesting a field examination of the above-subject property.

Attached are four copies of a report entitled "DMEA-3516, Dixie Ridge No. 1 Claim, Fresno County, California, Tungsten," by John D. Warne, Mining Engineer, U. S. Bureau of Mines, and Earl H. Pampeyan, and Roscoe M. Smith, Geologists, U. S. Geological Survey, dated December 30, 1954.

According to the report, no additional exploration work of consequence has been done by the applicant since the property was examined for exploration loan (DMA-696X) in 1951. The tactite exposures are too low in scheelite content and too small to indicate the expectation of profitable production of tungsten. A denial of the application for exploration aid is again recommended.

Mr. Roscoe Smith and I concur in the recommendation set forth in the report.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
1-17-55
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 10 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3516, Dixie Ridge No. 1 Claim

Fresno County, California

Tungsten

John D. Warne, Mining Engineer
U. S. Bureau of Mines

Earl H. Pampeyan, Geologist
Roscoe M. Smith, Geologist
U. S. Geological Survey

December 30, 1954

Reviewed by
DMEA OPERATING COMMITTEE
1-17-55
(date)

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ILLUSTRATIONS

Fig. No.	Description
1	Location map
2	Sketch map and section of the Dixie Ridge workings, Fresno County, California
3	Map of Dixie Ridge Claims, Fresno County, California

EXAMINATION REPORT

Docket No.: DMEA-3516 (Tungsten)

Name and address of applicant: Duke O. Whitt
Dunlap, Calif.

Name and location of property: Dixie Ridge No. 1 Claim,
one mile west of Dunlap,
Fresno County, California.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An examination of the Dixie Ridge No. 1 claim, located one mile ~~east~~ west of Dunlap, Fresno County, California (fig. 1), was made by an engineer of the Bureau of Mines and two geologists of the Geological Survey on November 4, 1954. This examination was made pursuant to an application to explore for tungsten by Duke O. Whitt, who accompanied the field team on the examination of the property.

No extensive recent prospecting work appears to have been done on the claim since a previous examination was made by an engineer 1/ of the Bureau of Mines in connection with a previous loan application made by Mr. Whitt in August 1951. The applicant's ability to properly conduct an exploration project is questionable.

The final application proposes to explore two nearly parallel tactite zones with three shallow shafts and two short drifts, and a moder-

1/ Russell R. Trengove, mining engineer - Bureau of Mines - Docket No. DMA-696X, Whitt Tungsten Property, Fresno County, Calif. Oct. 18, 1951.

ate amount of bulldozing work (illustrated in fig. 2). The total estimated cost of the program would be $12,073.05. All of the work is planned to be done on the Dixie Ridge No. 1 unpatented claim (fig. 3).

The tungsten deposit is too low in grade, and too small to allow profitable mining. It is recommended that the application for Government aid be denied.

LOCATION AND PHYSICAL FEATURES

The Dixie Ridge claim is situated in the foothill region along the western slope of the Sierra Nevada range at an elevation of about 2,000 feet above sea level. It is located in sec. 3, T. 14 S., R. 26 E., one mile west of Dunlap, Fresno County, Calif. (fig. 1).

The immediate area is mountainous and is covered with white oak, underbrush and grass. Suitable mine timber is available within 10 miles from the property. Water is available from a creek on the property except from July to October, inclusive. A shallow well would provide adequate water supply for milling purposes throughout the year.

Mine supplies can be obtained in Fresno, Calif., 43 miles distant. The nearest shipping point is the Santa Fe Railroad at Orange Cove, 16 miles by paved road southwest of the property.

Electric power is available one half mile from the property.

ACCESSIBILITY

The property is reached by traveling one mile westward from Dunlap, California along a paved county road, which connects with Cali-

fornia State Highway No. 180, and then turning southward on a private dirt road leading several hundred feet to the mine. Access to the Dixie Ridge claim by automobile is possible throughout the year.

COMPETENCY OF APPLICANT

The applicant (Duke O. Whitt) stated that he has had several years experience in connection with gold and copper mining.

No extensive prospecting work appears to have been done on the Dixie Ridge prospects for many years, and most of the exposures are caved and in poor condition for sampling purposes.

The financial responsibility of the operator is not known; and he would not state definitely as to how he could furnish his share of the costs of the proposed exploration work; however, he would contribute his labor, supervision, and equipment to the project.

Previous prospecting work done by the applicant is not impressive and the type of work proposed by him indicates that his ability to properly conduct an exploration project is questionable.

APPLICANT'S PROPERTY RIGHTS

The proposed exploration work is planned on the Dixie Ridge No. 1, unpatented claim (fig. 3), recorded in Book 289, page 229 at the Fresno County, California courthouse.

DESCRIPTION OF PROPERTY

Surface facilities and equipment consist of two small shacks which would be unsuitable for use in connection with the proposed ex-

ploration project and a few old hand tools which have been exposed to the weather for many years.

Some milling equipment, which is now obsolete and would be of no further use, remains at the site of the Dixie Queen gold mill located near the mine.

Existing development on the Dixie Ridge No. 1 claim consists of four shallow cuts and trenches ranging from 1 foot to 12 feet in depth along the north tactite zone; and three shallow test pits from 1 foot to 8 feet in depth along the south tactite zone (fig. 2). No underground development or evidence of actual mining operations exist on the property.

GEOLOGY

The Dixie Ridge claims in eastern Fresno County, California are in the foothills of the Sierra Nevada mountains. The rocks underlying the claims include metamorphosed sedimentary rocks which have been intruded by Jurassic crystalline rocks.

Biotite-quartz schist, as a pendant more than one-half mile wide and reported to be three miles long, underlies most of the Dixie Ridge claims. The foliate structure of the schist strikes almost due east and dips 60-75 degrees south.

Some calcareous layers in the metamorphosed sedimentary rocks have been changed into fine-grained garnet-epidote-quartz tactite. These tactite layers, ranging from six inches to six feet in thickness, parallel the schistosity of the surrounding schist. Three separate tactite bands

are exposed on the Dixie Ridge No. 1 claim.

Two granite dikes which cut the tactite and schist are related to a large mass of granitic rock which lies 150 to 200 feet north of the exposed tactite and surrounds the schist pendant.

ORE DEPOSITS

Scheelite and some powellite occur locally disseminated through the tactite. They are confined to the tactite and do not extend into the schist hanging wall or foot wall.

The north tactite zone is exposed along its strike for a horizontal distance of 120 feet, a vertical distance of 45 feet, and ranges in width from 2 to 6 feet. In the trenches at the west end and in the middle of the north zone (see fig. 2), where lamping showed the most scheelite, the tactite band is about 3 feet thick. At these localities, however, scheelite is concentrated in two 8 to 12 inch bands along the edges of the zone and separated by 10 to 18 inches of barren siliceous tactite. In both trenches, the scheelite mineralization was stronger just under the hanging wall of schist.

The south tactite zone is exposed in the trench near the stream bottom (fig. 2). Here the tactite is 3 feet thick but cannot be traced beyond the limits of the trench. As in the north tactite, scheelite is concentrated along the edges of the tactite in two one-foot bands separated by one foot of barren rock. In this zone, as in the north zone, the mineralization was stronger just under the schist hanging wall. Lamping in

this trench did not disclose sufficient mineralization to warrant sampling.

Two small prospect pits along a third (?) narrow tactite zone were examined and found to contain traces of scheelite; traces of powellite were found in the small pit nearest the south tactite trench. Although the tactite exposed in both of the small pits might be connected, there appeared to be no connection between this narrow zone and either the north or south tactite zones.

Traces of scheelite in tactite were seen in the stream bottom about one-fourth mile west of the proposed contract area. There are no outcrops of tactite between these localities so it is difficult to say whether or not this cropping is related to those in the proposed contract area.

There is no scheelite production record from the Dixie Ridge (or Dixie Queen) claims. The size of the workings indicate that not more than a few thousand pounds of rock could have been mined--if any.

ORE RESERVES

There are no measured reserves on the Dixie Ridge claims. Indicated reserves at the west end of the north zone, in a block 20 feet long, 12 feet down the dip from the floor of the trench, and almost one foot thick, equal almost 24 tons of tactite with an average grade of 0.12 percent WO_3 or about three units of WO_3. Indicated reserves near the prospect shaft in a block 20 feet long, 15 feet down the dip, and 2 feet thick equals 60 tons of ore averaging 0.64 percent WO_3 or about 38 units of WO_3. Judging from the exposures seen, it is unlikely that more

than 500 tons of tactite assaying less than 0.1 percent WO_3 exists as inferred ore on this property. In estimating reserves, a factor of 10 cubic feet per ton of rock was used for the volumetric equivalent of tactite in place.

SAMPLING

Four samples were taken in connection with this examination as shown in fig. 2. Descriptions and analysis by the Bureau of Mines Hydrometallurgical and Ore Dressing Branch are as follows:

Sample No.	%, WO_3	Description
1	0.64	Chip sample across 2.7 feet of mineralized tactite exposed in upper cut, at site proposed for shaft and open-cut work by applicant.
2	2.38	Specimen sample of sorted ore from above site.
3	0.12	Chip sample across 0.7-foot of best mineralization shown in lower open cut.
4	0.28	Specimen sample of mineralized material sorted at lower cut.

PAST OPERATION

According to the applicant, the tungsten deposit was discovered about 1946; prospecting work has been done by him since 1948.

There is no record of production or ore shipments from this property.

APPLICANT'S PROPOSAL

The applicant has suggested a program of exploration listing seven separate items. These items are located on fig. 2 and are listed below with their estimated costs:

Item 1.	Sink 12 feet and drift 10 feet east to explore the north tactite zone under the granite dike	$1,083.00
Item 2.	Excavate an area 30 x 40 x 9 feet to expose the tactite, and to make a shaft collar for item 3 shaft sinking	2,260.00
Item 3.	Sink 35 feet to explore the tactite at depth	2,992.50
Item 4.	Sink 15 feet to explore tactite at the easternmost surface exposure	891.00
Item 5.	Excavate an area 32 x 14 x 4 feet for the portal site of item 6 drift	268.80
Item 6.	Drift 35 feet east to explore the south tactite zone	1,748.25
Item 7.	Build 900 feet of road for access from existing road to workings	450.00
	Total	$9,693.55

All of this work would be done within the boundaries of the Dixie Ridge No. 1 claim. No work is contemplated for the Dixie Ridge No. 2 claim.

The above costs are the total estimated amounts, including labor and supervision to perform the actual exploration work. Additional estimated costs listed by him are as follows:

Miscellaneous hand tools (to be purchased)	$ 297.00
Operating equipment (to be purchased)	1,118.50
Miscellaneous materials and supplies	320.00
Insurance	125.00
Mine store house	224.00
Dining and kitchen building	295.00
	$ 2,379.50

Total cost of the proposed project would be:

Exploration work	$ 9,693.55
Other	2,379.50
Total	$12,073.05*

*Total corrected from estimated costs included in application.

The applicant's proposed exploration for the Dixie Ridge claim presents one way of prospecting a small mineral deposit. With this program the best showings would be explored and mined but the majority of the ground in between these showings would remain untouched.

At the time of the examination, other methods of exploration were discussed with the applicant. A small diamond drilling program was considered and rejected because of the lack of information on which to base a small number of holes. An adequate drilling program for this type of deposit would cost nearly as much as the underground work. The applicant would rather use diamond drilling underground to determine the limits of any known ore bodies. Another method of underground exploration was discussed at the time of the examination in which a long(160- to 180-foot) adit would be driven along the north tactite zone under the pro-

posed workings. With a long drift instead of three short shafts, the best showings still would be explored, more convenient access for working the deposit would be gained, and more exploratory work could be done for an equal amount of money. Bulldozing to determine the structural relations and extent of these tactite zones should be done before any underground work is attempted. The applicant was not interested in any exploration program but his own.

As the scheelite mineralization on the Dixie Ridge claim is low grade and occurs locally in narrow bands averaging one foot in thickness, and the reserves are quite small, it is recommended that the applicant's request for a DMEA loan be denied.

OTHER INFORMATION

A previous application for Government assistance was made by Mr. D. O. Whitt in August 1951 (Docket No. DMA-696X). This application was for a loan of $10,000.00 to perform exploration work on both the Dixie Ridge and Dixie Queen claims. The location and type of work proposed in this original application was essentially the same as that later proposed and considered in this report. An examination report by Russell R. Trengove, dated October 18, 1951, recommended denial of a loan as requested in the original application.

Apparently very little additional work has been done on the property since the original examination; and present exposures are too low in tungsten content to warrant participation by the Government in the proposed exploration program.

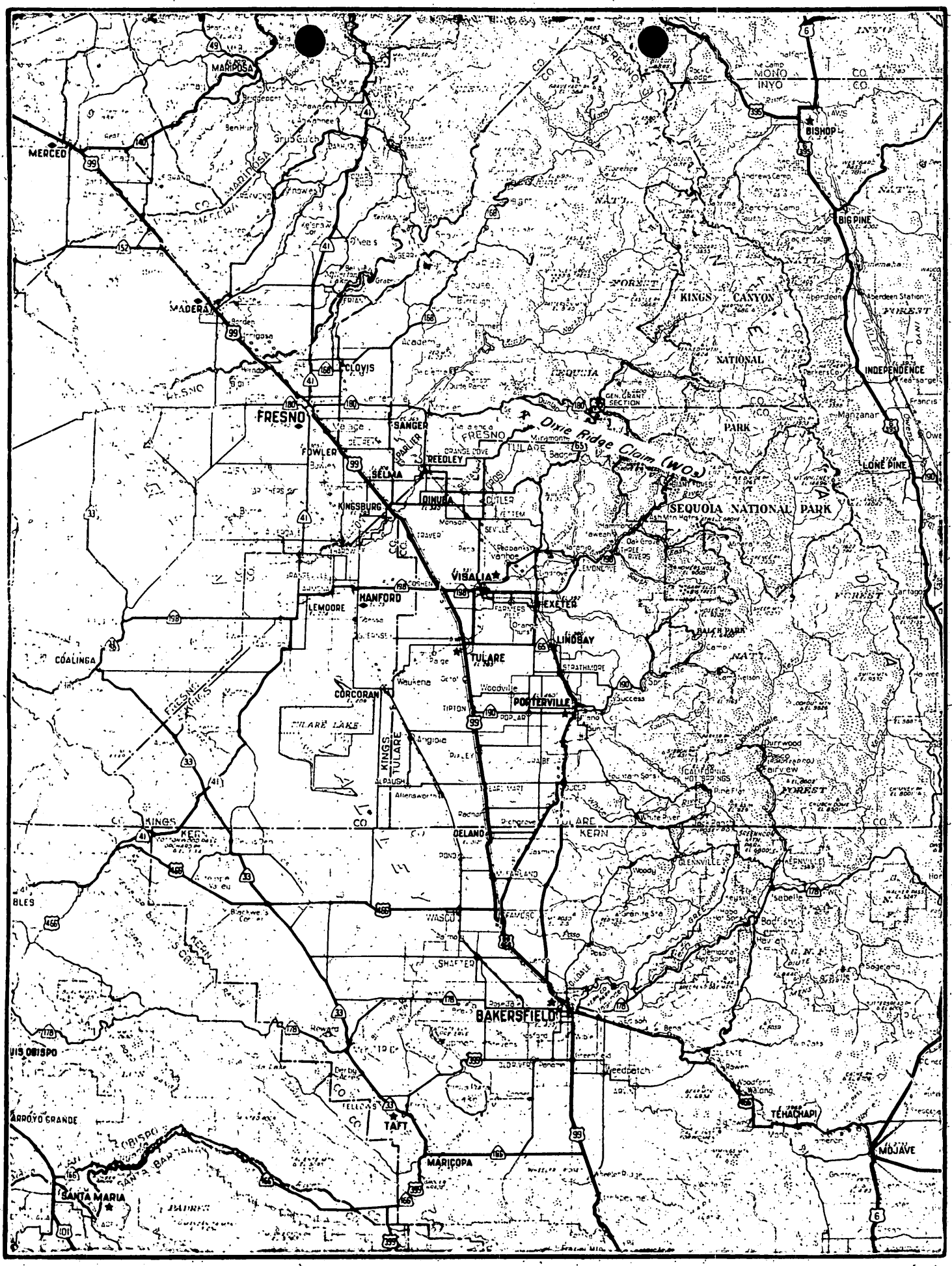
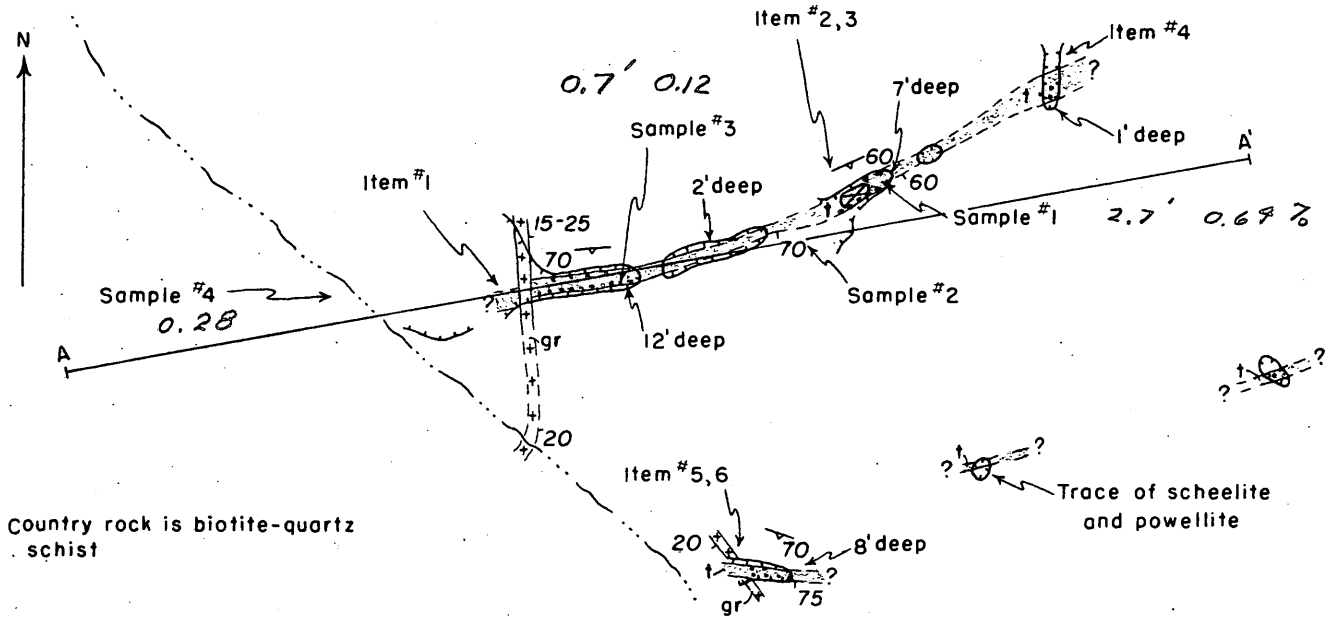


FIG. 1 LOCATION MAP

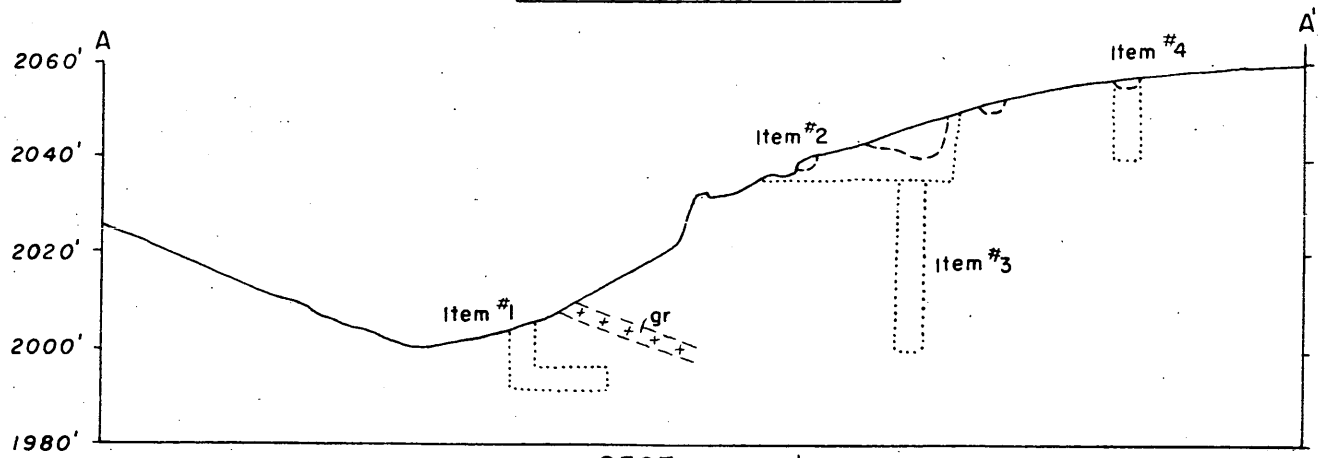
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3516
(TUNGSTEN)



GEOLOGIC SKETCH MAP

0 40 80 Feet



SECTION A-A'

Brunton-Tape survey by E.H. Pampeyan
and R.M. Smith, November 1954

EXPLANATION

gr
Granite dike

t
Tactite

60
Contact, showing dip
Dashed where approximately located

70
Strike and dip of schistosity

Trench or pit

Collar of prospect shaft

Scheelite mineralization

Item #3
Site for proposed exploration work

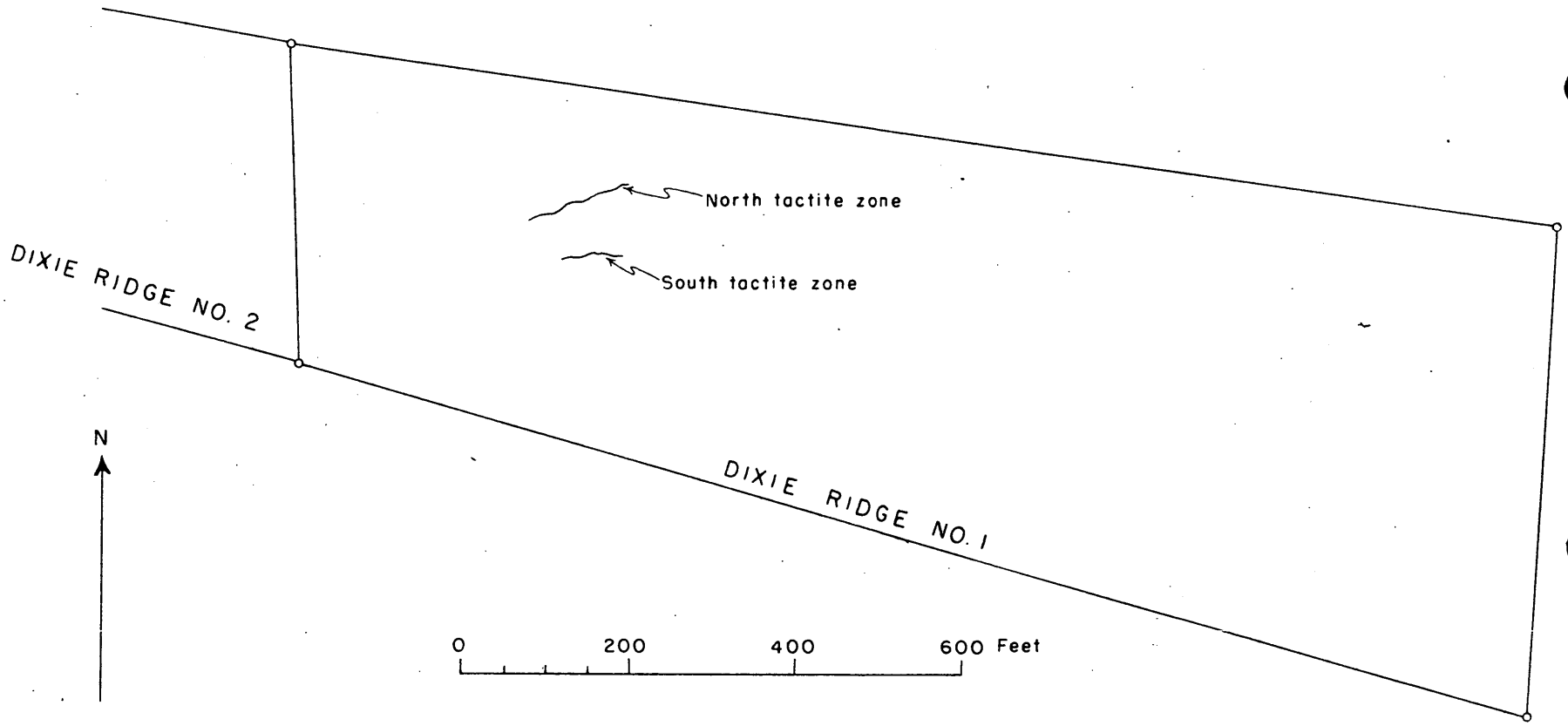
Workings projected to plane of section

Proposed workings projected to plane of section

SKETCH MAP AND SECTION OF THE DIXIE RIDGE WORKINGS, FRESNO COUNTY, CALIFORNIA
Figure 2

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3516
(TUNGSTEN)



MAP OF DIXIE RIDGE CLAIMS, FRESNO COUNTY, CALIFORNIA

Figure 3

400

DOCKET
SURNAME
Rutledge
Martin
Selfridge
Fehlman
Wartendorf

JAN - 6 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

Dear M. Richer:

Reference is made to the subject docket, our teletype of December 7, 1954, and your reply of December 8.

Because a reply to the applicant is being held in abeyance until we have the Field Team report, it would be appreciated if you could expedite our receiving the necessary data.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

FARutledge:foc
1-4-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

R.C.R.

400

DOCKET
Surname:
Rutledge
Martin

DEC - 8 1954

Mr. Duke O.Whitt

Dunlap, California

Re: Docket No. DMEA 3516 - Tungsten
Dixie Ridge claim
Fresno County, California

Dear Mr.Whitt:

This will acknowledge your letter of December 1, 1954, inquiring as to the status of the above-docketed application for exploration assistance on the Dixie Ridge claim.

Our Field Team examined the subject claim, as we understand, on November 4. When we have had an opportunity to review their complete report, which is expected toward the end of December, you will be promptly advised of our decision.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge/ls
12-8-54
cc: Docket
Field Team, Reg. 3
Code 400
Adm. Read. File
R. W. Geehan, USBM
Thor Kiilsgaard, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1954

XDMXXXXX-036K SW050-WAF SFF 18 I-BOM

SAN FRANCISCO CALIF 12-7-54 1247P

GEORGE C SELFRIDGE, CHAIRMAN,

OPERATING COMMITTEE, DEFENSE MINERALS EXPLORATION ADMINISTRATION

INTERIOR BLDG WA

Re: Duke O. Whitt

W304

REURTT DECEMBER 7. EXAMINATION ON DOCKET DMEA-3516 MADE NOVEMBER 4 AND REPORT WHICH SHOULD BE TRANSMITTED WITHIN A WEEK WILL RECOMMEND DENIAL

S RICKER EXECUTIVE OFFICER DMEA FIELD TEAM, REGION III

7 DMEA-3516 4

LM 1255PM

DEC 7 4 34 PM '54
BUREAU OF MINES
MAIL ROOM
WASHINGTON D. C.

DOCKET
Surname:

Martin
Selfridge
Johnson
Mattenberg

Interior Department
Defense Minerals Exploration Administration
14X4401(01) Revolving Fund, Defense Production Act, Interior
(Allocated Working Fund to the Office of the Secretary)

T E L E T Y P E

DEC - 7 1954

To: Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region 3
San Francisco, California

Re Docket DMEA 3516, Duke O. Whitt, Dixie Ridge claim, Fresno County, California.

Please wire date of scheduled examination or summary of your recommendations if examination and review are completed.

George C. Selfridge

Chairman, Operating Committee

cc: Docket
Code 400
Adm. Reading File
Oper. Committee
Field Team, Region 3
R. W. Geehan, USBM
Thor Kiilsgaard, USGS

WSMartin/ls
12/6/54

Department of the Interior
Defense Minerals Administration
RECEIVED
DEC 6 1954

Dunlap, Calif
Dec 1/54

Department of Interior
Defense Minerals Exploration Administration
Mr. C. O. Mittendorf Administrator
Washington 25/DC.

WBM

Re Docket No DMEA 3516 Tungsten
Dixie Ridge Claim
Fresno County Calif.

Dear Mr. Mittendorf

This is just an inquiry as to the status of my application for exploration assistance, which examination of the tungsten property was made Nov 5/1954 by field team sent by Mr. H. C. Miller Region III San Francisco, Calif

Do not wish to hurry any decision as perhaps a little early for complete reviewing

However wish to say at this time, trusting you will give application careful consideration as would appreciate some kind of working agreement, as believe an appreciable tungsten deposit will be found, and I'm prepared to do the work if an agreement can be made.

Will have any final decisions as to suggestions of altering of plans and costs presented and will try to co-operate; however in hopes they may be considered somewhere around as prepared, or near as can be worked out.

In closing wish to thank you for your attention

Respectfully yours
Luke O. Whitt

400
DOCKET
SURNAME
Martin

Selfridge
Johnson
Rutledge

OCT 21 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Customhouse Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

Dear Mr. Miller:

Reference is made to the above-docketed application for exploration assistance that was referred to your office on October 11, 1954, for a field examination of the property.

Two copies of a relevant memorandum dated October 14, 1954, by L. L. Newcomb, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (246)

Enclosure

APPROVED:

J. H. Hedges
Member, Bureau of Mines (246)

Thor H. Kiilsgaard
Member, Geological Survey (246)

FARutledge:foc
10-19-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

Docket

IN REPLY REFER TO:

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

October 14, 1954

Re: DMEA-3516
Duke O. Whitt
(Dixie Ridge Claim)
Fresno Co., Calif.
$12,062 - Tungsten

Memorandum

WSM

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

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

Subject: Review of application

The applicant proposes a project which apparently involves trenching, shaft sinking, and drifting to explore for tungsten mineralization beneath a granite dike or sill.

We do not have any information in our files on this property.

There is not sufficient data presented to judge whether exploration is warranted. The applicant states his ore averaged around 1% WO_3, but I do not find any assay certificates in the docket material. Although more complete data would be desirable, I doubt that correspondence with the applicant will provide enough information to make a firm recommendation.

I recommend the application be referred to the Field Team for an examination and report.

E. L. Newcomb

E. L. Newcomb

Copy returned 2[illegible]

400

DOCKET
SURNAME
Rutledge
Martin
Geehan
Kiilsgaard
Selfridge
Kipkinson

OCT 11 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Customhouse Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

Dear Mr. Miller:

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

An earlier request by the Applicant for exploration assistance at the same property under Docket No. DMEA 696 was denied February 19, 1952. Review of the sampling data available at that time suggests that further sampling should be an important part of the next examination.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GHB)

APPROVED:

J. H. Hedges
Member, Bureau of Mines (GHB)

Thor H. Kiilsgaard
Member, Geological Survey (GHB)

FARUTLEDGE:foc
10-6-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

R.C.S.

Docket
Surname

400

Rutledge
Martin
Geehan
Kiilsgaard
Hedges
Bedford
Johnson

OCT 11 1954

Mr. Duke O. Whitt
Dunlap
California

Re: Docket No. DMEA 3516 - Tungsten
Dixie Ridge claim
Fresno County, California

Dear Mr. Whitt:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 420 Customhouse Building, 555 Battery Street, San Francisco 11, California, for a field examination of the property.

Any assistance that you can render the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARUTIEDGE:foc
10-6-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

R.G.S.

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

October 5, 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 -3516 Duke O. Whitt

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

October 5, 1954

Subject: DMEA-3516
Re: Exploration Assistance
Dixie Ridge

Mr. Duke O. Whitt
Dunlap
California

Dear Sir:

The receipt of your application dated (undated) for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3516 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

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

Defense Minerals Administration
RECEIVED
OCT 4 1954

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

September 28, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Loan - Tungsten
Duke O. Whitt
Dunlap, California

Attached are three sets of MF-103 forms received in our mail from Duke O. Whitt, making application for a loan on the Dixie Ridge Mining Claim in Fresno County, California. The fourth set has been retained for our records.

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

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 42-R638.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 4 1954

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. ~~3416~~ 3516
Metal or Mineral TUNGSTEN
Date Received
Estimated Cost $12,062
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:

Duke O. Whitt
Dunlap
California

(*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

Dixie Ridge Mining Claim-unpatented Recorded Book 289 Official Page 229 Records County of Fresno, Calif.

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

(*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

(*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 Tungsten.

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

(*c*) The work will start within 10 days and be completed within 24 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated _____, 195__

_____
(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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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OCT 4 1954

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
1951 SEP 27 PM 2:00
SAN FRANCISCO, CALIFORNIA

CONTRACT BY OWNER (Unit Cost Basis)

Total Amount for Project

54.50

Cost of Equipment to Purchase-------	$2242.50
Exploration Work----------	9694.15
Insurance Cost	125.00
Total----------	$12061.65

275.00

Deposit-------$250.00 Monthly Premium $94.35

4
(a)

Surface work along 135 feet strike on mineralized structure has been made including open cuts 4 feet to 20 ft. depth at fan with shaft started to depth of 14 ft. from surface ore outcrop.

All work has been performed unassisted by owner.

Dirt road leading in 1/4 mile from surfaced highway is accessible by automobile, and leads within 600 ft of mine working.

(b) Mine working is considered in development stage. No production as yet, other than recently a mill test run of four ton of average ore bearing material was removed in surface at different points along No. 1 Structure.

This ore material was hauled by truck and reduced in a small straub Ball Mill using one table, resulting in recovery of 10 lbs of Scheelite Concentrates to one ton of ore, concentrates averaging around 70% tungstic acid just as it came off table.

Believe if two or more tables had been used it could have no doubt averaged a little larger percentage, as assays of the ore material previous to milling averaged around 1% WO_3.

(c) No. 1. Structure

A definite structure of tungsten mineralization exposed along 135 ft. surface strike by outcrop and surface workings.

Structure is a bedded type lime alteration varying in thickness around 4 ft. to 8 ft., and arranged in a Schist composed principally of (Biotite and Quartz), with an intrusive granite dipping in the hill at low angle, underlying the structure, cutting the schist and probably the structure as some evidence of the structure existing below this granite.

Structure conforms in dip with the schist which has been tilted to it's present angle about 75°. Refer to sketch No. I.

The tungsten a scheelite is found associated in a material composed of a lime garnet, epidote, Calcite, and quartz with a manganese stain rather persistent along in the structure, the latter occuring infrequently in small lense like in state of (Wad) ~~Mangonesive~~ manganese Oxide, noticable along foot wall at Surface shaft No. 3.

Scheelite has a fair dissemination in the ore material mostly in small granular state with some courser present, flourses white and blue white, with mineralization appearing rather persistent along the 135 ft. surface exposer, still showing good tungsten mineralization at 40 ft. depth below uppermost outcrop.

(c) No. 2

A mineralized structure lying parallel to No. I structure, at a distance of about 60 ft. is a bedded type, showing 3½ ft. thickness slightly steeper dip than No. I, also strikes a few degrees greater easterly, following trend and dip of ~~endasening~~ endasening schist.

The structure is rather hard and definitely a tactite, scheelite present with good dissemination in the ore material.

As noted on ~~Sketch~~ sketch No. 2, structure occurs underlying intrusive granite, showing better tungsten mineralization than in the immediate overlying ore material. Structure strikes easterly into a hill that rises from a present workings to height of around 350 ft. in 900 ft. distance.

(C) Reasons that we wish to explore:

At different times few persons of mining knowledge have made brief examination of the deposit and seem to be in accord that surface conditions appeared favorable for further development.

Besides personally doing all the surface development, with close observation of all conditions so far found, firmly believe an appreciable tungsten deposit exists and is willing to assume the responsibility of the proposed work, believing the proposed work should reveal considerable evidence as to the extent and possible future.

Further realizing tungsten is much needed in our National Defense, willing to assist in any way possible in the production from the property

4 (d)

The property is easily accessible by automobile and located about one mile west of small town of Dunlap, Fresno County, Calif.

Dirt road 1/4 mile-leads in from a surfaced road that leads on to King's Canyon National Park about 20 miles above.

Property in question is located at 2000 feet elevation.

Nearest railroad shipping point Orange Cove, 18 miles distance, over good Highway.

Nearest general store and Post Office small town of Dunlap one mile.

City of Fresno located 42 miles west would be main point of supply, where a Maine Supply Company is located, as well as the various larger stores and plants, where everything needed could be readily obtained.

(4)(e)

Man power, materials, supplies and equipment can be obtained.

Nearby creek known as Mill Creek with ~~material~~ natural flow of around 9 months a year, with reserve water held back, can supply sufficient water thought out the year at no cost other than pumping.

P.G. & E. power line (110) v extending in 1/2 mile from main line reaches within less than four hundred feet from mine workings.

(5) (a) Tungsten

(b) Refer to No. I and No. 2 Sketch.

(d) Supervision of operations would be under the applicant, sole owner of the property. Applicant has had several years mining experience. Also experience with men working under his supervision. Operated a small gold property, envolving mining and milling. Also at one time

employed at the Carson Hill gold propertynear Melongs Calif. also the Old Dominion Copper Mine of Globe Arizona. With the desire and more of practical experience, in mining, applicant believes he is capable of carrying out the proposed exploration work, appreciating any advice and consultations that could be had from any representatives on the work to be carried out.

No. 6.

Estimate of (Unit Cost Contract) by owner to perform proposed work (basis) including No. I-2-3-4-5-6.

In following estimates of proposed work consideration has been taken there is no heavy ~~known~~ equipment on the property. All will have to be brought in and practically all material to be removed is in place with consideration of hardness, favorable and less favorable in removing.

(No I)
Sinking and Drifting
$49.25 per foot

1083.50

Shaft 12 ft. depth	5 x 6	362 cu. ft.	360
Drift 10 ft.	6 x 4	240 " "	1080.00

602 total Cu. Ft. (602 x $1.80= $1083.60) total cost

This work to determine the believed existence of the mineralized structure, underlying granite intrusion. Shows evidence of mineralization and believed to exist. Appears may be faulted or shifted a few feet at this point.

Refer to sketch.

No. 2 (Excavation)

No 6. (Continued) (20¢ a cu. ft.

Surface removal requiring some drilling and blasting with bull dozer assistance.

40 ft. length - 30 ft. width 9 ft. avg. depth (900 ton)

40 ft. x 30 ft. x 9 ft. depth 10800 cu. ft. @ 20¢ cu ft. ~~$22.60~~ total $2260 cost

This work to remove surface overburden, to contact ore structure, at same time to make station for sinking No. 3 shaft.

No. 3

Sinking

$85.50 per foot

Double Compartment Shaft

35 ft. depth 6ftx 7½ ft. = 1575 cu ft. @ $1.90 cu ft. $2992.50 total cost

This shaft work to determine the depth persistence of structure and tungsten mineralization from surface to at least 35 ft. depth, with the expectation of contacting the underlying granite intrusion likely to exist, as appears strong, and here determine the conditions of structure immediately overlying and existence of any underlying structure, believe to exist.

This shaft to be well timbered, safe and in good condition perhaps deepened and used for whatever conditions call for as air-circulation and safety, in any underground workings.

No. 4

Sinking $59.40 per foot

Shaft:

15 ft. depth x 6 x 5½ ft 495 cu ft. @ $1.80 - $891.00 total cost

This work for determination of the structure and mineralization or any evidence of termination at this last point of surface workings along the course.

No. 5

Excavation for tunnel site
(.15¢ cu ft.)

Will require some blasting with assistance of bull dozer.

32 ft. length - 14 ft. width - 4 ft. depth

32 x 14 x 4 - 1792 cu. ft. @ 15¢ cu ft. - $268.80

No. 6

Drifting

$49.37 per foot

35 foot tunnel on No. 2 Parallel Structure

35 ft. length 6 ft. x 4½ 945 cu. ft. @ $1.85 cu ft.-- $1748.25

The tunnel to be driven on the structure to determine the conditions and ore values. There is good tungsten mineralization showing at the 3½ ft. face of this parallel structure. Structure is rather hard and will have to all be removed by drilling and blasting.

No. ~~6~~ 7

Road

50¢ per linear foot

900 ft. Proposed Road to Mine workings will require some blasting with Bull dozer work.

900 ft. 7 cu ft. to 1 linear ft 6300 cu ft. to remove

900 ft. @ 50 ¢ per linear ft $450.00

This road will lead to the Mine Workings and connect with 1/4 mile road leading in from highway.

All proposed work No (1-2-3-4-5-6-7

Total amount of Material to be removed approximately 25509 cu ft.

or 1867 ton

Cost for actual removal----------	$9694.15
Average cost per cu. ft. ----------	.43
Average cost per ton	5.16

6 (a)None

(b)Common labor $1.00 to 1.25 per hour

Experienced Miner 2.25 per hour

Experienced Miner and

Air Drill work $2.50 to 2.75 p

Mechanic & Machinest $2.25 to $3.00 per hour

(c)

1 Blacksmith forge and blower	40.00
1 Machinist's Vice	15.00
Valves and Pipe Fittings	40.00
1 Pipe Die Set 1/2" to 1½"	18.50
1 Pipe cutter	11.00
1 Pipe Wrench 18"	4.50
1 Pipe Wrench 10"	2.75
1 Post Drill and bits	40.00
1 Bit brace and bits	10.00

1 Carpenter's Level	5.00
1 Hand Saw Cross Cut	6.00
1 Hand Saw - Rip	6.00
1 Cross Cut Saw - 4 ft	7.50
1 Blow torch	10.75
1 Emery wheel sharpener	6.00
1 Hack saw	2.35
1 6" belt - 20 ft.	30.00
1 6" belt - 15 ft.	20.00
2 Claw Hammers	5.00
1 Hatchet	2.95
2 shovels	6.00
3 Picks	8.00
	$297.00

Cost

Electric Power	$1.40	5.6 per kwtt
" "	1.60	3.6 " "
" "	1.00	2.6 " "
		All other 1.2

Fuel gasoline (26½¢ per gal.)(Quantity)

Water Creek near by with natural flow

No costs for water other than for placing water at mine workings thru pumping. After installation of pump costs of water would be comparatively.low.

			Da	Wk.	Mo.
(d)	Cost of Equipment to Rent	Air Compressor, gasoline 125 cu.ft	$15.00	$60.00	160.00
		Air Drill	4.50	18.00	40.00
		Hoist	8.50	27.00	81.00

Bull dozer (to operate) $10.00 per hour

Cost of Equipment to Purchase	One 3 h.p. Electric Motor	$ 169.00
	One 10 H. P. Gas Engine	292.00
	One Ore dump car 1500 capacity	90.00
	One Pump	295.00
	950 ft. - 1 in pipe	218.50
	300 ft. -3/4 in pipe	54.00
	Total	1118.50

Pump Installation

1 - 300 gal. Water tank	120.00
1 - 200 gal. " "	80.00
5- 3 ft. joint Cement pipe-24 inch diameter	25.00
8 Sacks Cement	10.00
Labor for Installation	85.00
	$320.00

Note: This pump installation not needed immediately and could be installed after work ~~programs~~ programs. Same would then be much needed.

Equipment owned by operator or owner
to be used with no charges

1 Blasting Detonater

400 ft. 8 lb. Rail Track

1 Anvil (large)

Blacksmith tools

1 Wheel Barrow

1 - 6 ft. Cross Cut Saw

2-- 30 gal. Water Pressure tanks

1 8 ~~ft.~~ sledge hammer

2 picks and shovels

F. New Buildings

1 - 12 ft. x 26 ft. building at Mine Workings for Storehouse at shop.

Lumber Rough - 1500 ft.	$98.00
Roofing - 6 rolls	21.00
Windows (2)	4.00
Doors (2)	8.00
Miscellaneous	8.00
Labor	85.00
	$224.00

1 - 12 ft. x 24 ft. Building-dining hall and kitchen

Lumber - 2000 ft.	140.00
Roofing Rolls (6)	21.00
Windows (3)	9.00
Doors (3)	18.00
Miscellaneous	10.00
Labor	95.00
	295.00

6 (G) Insurance for (Workman's Compensation
Employees Liability)

(Surface) Minimum without shaft, tunnel
or drift---------- $107.00

(Underground Mining) with shaft,
tunnels and drifts $168.00

7 (a) Yes

(b)

Applicant has income from small herd of beef cattle, besides this would be able to do mining work on the project which would also assist some in his portion of payment obligation

In Conclusion applicant would use any equipment owned and anything that would be of benefit without charges in the proposed exploration work.

L. D. White
(Applicant)

U. S. Bureau of Mines
~~60 Custom House~~
55 Battery Street
San Francisco 11, California

OFFICIAL BUSINESS

CALIF. METER NO. 139445

FIRST CLASS

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

FIRST CLASS

JAN 31 1955

Mr. Duke O. Whitt
Dunlap, California

Re: Docket No. DMEA 3516 - Tungsten
Dixie Ridge claim
Fresno County, California

Dear Mr. Whitt:

Reference is made to the above-designated application for exploration assistance, your letter of December 1, 1954, and our reply of December 8. The Field Team report on its examination of the Dixie Ridge claim has now been received.

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

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

Careful study of all our information, although noting the occurrence of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

FAButledge:foc
1-27-55
cc to: Docket
Code 400
Adm. Reading File
Operating Committee
FT. REG. II
W. McInnis, USBM
Thor H. Kiilsgaard, USGS

Sincerely yours,

K. O. Mittendorf

Administrator

January 27, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $12,073.65
Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

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

1. A prior application for exploration assistance, which included the Dixie Ridge claim, by Mr. Whitt, (Docket No. DMEA 696), was denied by letter of February 19, 1952. The Field Team reports that no additional exploration work of consequence has been done since the property was examined in 1952.

2. Tungsten mineralization at the Dixie Ridge prospect appears to be localized in tactite that has been formed from the more calcareous layers in metamorphosed sedimentary rocks intruded by granitic rock. The tungsten occurs in the form of scheelite and powellite heavily disseminated through the tactite. The tactite layers, ranging from six inches to six feet in thickness, parallel the schistosity of the metamorphosed sedimentary rocks.

Three separate tactite bands are exposed on the Dixie Ridge No. 1 claim. At the two more favorable occurrences, the tungsten mineralization is concentrated in two 8 to 18-inch bands along the edges of the zones separated by barren siliceous tactite.

The examining field team took two samples of the tactite exposed in the north zone and two specimen samples of the best grade of material present as follows:

Sample No.	% WO_3	Description
1	0.64	Chip sample across 2.7 feet of mineralized tactite exposed in upper cut, at site proposed for shaft and open-cut work.

Sample No.	% WO_3	Description
2	2.38	Specimen sample of sorted ore from shown site.
3	0.12	Chip sample across 0.7 feet of best mineralization shown in lower open cut.
4	0.28	Specimen sample of mineralized material sorted at lower cut.

The Field Team estimated approximately 60 tons of 0.64 percent WO_3 to be indicated at the prospect and concluded that it is unlikely that more than 500 tons of tactite containing less than 0.1 percent WO_3 may be inferred.

3. As the scheelite mineralization on the Dixie Ridge claim is low grade and occurs locally in narrow bands averaging one foot in thickness, and the reserves are quite small, the examining field team recommended that the applicant's request for a DMEA loan be denied.

4. The Field Team concur in the above recommendation.

5. The Commodity Division of the Geological Survey recommends denial.

6. The Commodity Division of the Bureau of Mines concurs.

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

FARUTLEDGE:fee
1-27-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

IN REPLY REFER TO:

400

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

Defense Minerals Administration
RECEIVED
JAN 25 1955

January 20, 1955

Re: DMEA-3516
Duke O. Whitt
(Dixie Ridge Claims)
Fresno Co., Calif.
412,073.05 - 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 Dixie Ridge claim was previously denied assistance in 1951 in connection with application DMA-696X.

The Field Team states that no extensive prospecting or exploration work has been done since the time of this earlier denial. As a result of their examination and sampling, the Field Team has estimated that reserves on the property may total about 584 tons with most of this tonnage averaging less than 0.1 percent WO_3.

I noted that the Field Team questioned the competency of the operator to carry out the proposed exploration and to participate financially in the work.

The tungsten mineralization exposed on the property is mainly low grade ore occurring in narrow bands. The chances are poor that a significant discovery would be made by the operator's proposed exploration work. I concur with the Field Team's recommendation and reaffirmation that the Dixie Ridge property be denied DMEA exploration assistance.

E. L. Newcomb

ELNewcomb:hlm
G-1/20/55

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

Copy retained 400

400

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

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

January 4, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3516 - Tungsten
Duke O. Whitt
Dixie Ridge Claim
Fresno County, California

Reference is made to your letter of October 11, 1954, requesting a field examination of the above-subject property.

Attached are four copies of a report entitled "DMEA-3516, Dixie Ridge No. 1 Claim, Fresno County, California, Tungsten," by John D. Warne, Mining Engineer, U. S. Bureau of Mines, and Earl H. Pampeyan and Roscoe M. Smith, Geologists, U. S. Geological Survey, dated December 30, 1954.

According to the report, no additional exploration work of consequence has been done by the applicant since the property was examined for exploration loan (DMA-696X) in 1951. The tactite exposures are too low in scheelite content and too small to indicate the expectation of profitable production of tungsten. A denial of the application for exploration aid is again recommended.

Mr. Roscoe Smith and I concur in the recommendation set forth in the report.

S. RICKER

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
1-17-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3516, Dixie Ridge No. 1 Claim

Fresno County, California

Tungsten

John D. Warne, Mining Engineer
U. S. Bureau of Mines

Earl H. Pampeyan, Geologist
Roscoe M. Smith, Geologist
U. S. Geological Survey

December 30, 1954

Reviewed by
DMEA OPERATING COMMITTEE
1-17-55
(date)

CONTENTS

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Sampling	7
Applicant's proposal	8
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ILLUSTRATIONS

Fig. No.	Description
1	Location map
2	Sketch map and section of the Dixie Ridge workings, Fresno County, California
3	Map of Dixie Ridge Claims, Fresno County, California

EXAMINATION REPORT

Docket No.: DMEA-3516 (Tungsten)

Name and address of applicant: Duke O. Whitt
Dunlap, Calif.

Name and location of property: Dixie Ridge No. 1 Claim,
one mile west of Dunlap,
Fresno County, California.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An examination of the Dixie Ridge No. 1 claim, located one mile ~~east~~ west of Dunlap, Fresno County, California (fig. 1), was made by an engineer of the Bureau of Mines and two geologists of the Geological Survey on November 4, 1954. This examination was made pursuant to an application to explore for tungsten by Duke O. Whitt, who accompanied the field team on the examination of the property.

No extensive recent prospecting work appears to have been done on the claim since a previous examination was made by an engineer [1/] of the Bureau of Mines in connection with a previous loan application made by Mr. Whitt in August 1951. The applicant's ability to properly conduct an exploration project is questionable.

The final application proposes to explore two nearly parallel tactite zones with three shallow shafts and two short drifts, and a moder-

1/ Russell R. Trengove, mining engineer - Bureau of Mines - Docket No. DMA-696X, Whitt Tungsten Property, Fresno County, Calif. Oct. 18, 1951.

ate amount of bulldozing work (illustrated in fig. 2). The total estimated cost of the program would be $12,073.05. All of the work is planned to be done on the Dixie Ridge No. 1 unpatented claim (fig. 3).

The tungsten deposit is too low in grade, and too small to allow profitable mining. It is recommended that the application for Government aid be denied.

LOCATION AND PHYSICAL FEATURES

The Dixie Ridge claim is situated in the foothill region along the western slope of the Sierra Nevada range at an elevation of about 2,000 feet above sea level. It is located in sec. 3, T. 14 S., R. 26 E., one mile west of Dunlap, Fresno County, Calif. (fig. 1).

The immediate area is mountainous and is covered with white oak, underbrush and grass. Suitable mine timber is available within 10 miles from the property. Water is available from a creek on the property except from July to October, inclusive. A shallow well would provide adequate water supply for milling purposes throughout the year.

Mine supplies can be obtained in Fresno, Calif., 43 miles distant. The nearest shipping point is the Santa Fe Railroad at Orange Cove, 16 miles by paved road southwest of the property.

Electric power is available one half mile from the property.

ACCESSIBILITY

The property is reached by traveling one mile westward from Dunlap, California along a paved county road, which connects with Cali-

fornia State Highway No. 180, and then turning southward on a private dirt road leading several hundred feet to the mine. Access to the Dixie Ridge claim by automobile is possible throughout the year.

COMPETENCY OF APPLICANT

The applicant (Duke O. Whitt) stated that he has had several years experience in connection with gold and copper mining.

No extensive prospecting work appears to have been done on the Dixie Ridge prospects for many years, and most of the exposures are caved and in poor condition for sampling purposes.

The financial responsibility of the operator is not known; and he would not state definitely as to how he could furnish his share of the costs of the proposed exploration work; however, he would contribute his labor, supervision, and equipment to the project.

Previous prospecting work done by the applicant is not impressive and the type of work proposed by him indicates that his ability to properly conduct an exploration project is questionable.

APPLICANT S PROPERTY RIGHTS

The proposed exploration work is planned on the Dixie Ridge No. 1, unpatented claim (fig. 3), recorded in Book 289, page 229 at the Fresno County, California courthouse.

DESCRIPTION OF PROPERTY

Surface facilities and equipment consist of two small shacks which would be unsuitable for use in connection with the proposed ex-

ploration project and a few old hand tools which have been exposed to the weather for many years.

Some milling equipment, which is now obsolete and would be of no further use, remains at the site of the Dixie Queen gold mill located near the mine.

Existing development on the Dixie Ridge No. 1 claim consists of four shallow cuts and trenches ranging from 1 feet to 12 feet in depth along the north tactite zone; and three shallow test pits from 1 foot to 8 feet in depth along the south tactite zone (fig. 2). No underground development or evidence of actual mining operations exist on the property.

GEOLOGY

The Dixie Ridge claims in eastern Fresno County, California are in the foothills of the Sierra Nevada mountains. The rocks underlying the claims include metamorphosed sedimentary rocks which have been intruded by Jurassic crystalline rocks.

Biotite-quartz schist, as a pendant more than one-half mile wide and reported to be three miles long, underlies most of the Dixie Ridge claims. The foliate structure of the schist strikes almost due east and dips 60-75 degrees south.

Some calcareous layers in the metamorphosed sedimentary rocks have been changed into fine-grained garnet-epidote-quartz tactite. These tactite layers, ranging from six inches to six feet in thickness, parallel the schistosity of the surrounding schist. Three separate tactite bands

are exposed on the Dixie Ridge No. 1 claim.

Two granite dikes which cut the tactite and schist are related to a large mass of granitic rock which lies 150 to 200 feet north of the exposed tactite and surrounds the schist pendant.

ORE DEPOSITS

Scheelite and some powellite occur locally disseminated through the tactite. They are confined to the tactite and do not extend into the schist hanging wall or foot wall.

The north tactite zone is exposed along its strike for a horizontal distance of 120 feet, a vertical distance of 45 feet, and ranges in width from 2 to 6 feet. In the trenches at the west end and in the middle of the north zone (see fig. 2), where lamping showed the most scheelite, the tactite band is about 3 feet thick. At these localities, however, scheelite is concentrated in two 8 to 12 inch bands along the edges of the zone and separated by 10 to 18 inches of barren siliceous tactite. In both trenches, the scheelite mineralization was stronger just under the hanging wall of schist.

The south tactite zone is exposed in the trench near the stream bottom (fig. 2). Here the tactite is 3 feet thick but cannot be traced beyond the limits of the trench. As in the north tactite, scheelite is concentrated along the edges of the tactite in two one-foot bands separated by one foot of barren rock. In this zone, as in the north zone, the mineralization was stronger just under the schist hanging wall. Lamping in

this trench did not disclose sufficient mineralization to warrant sampling.

Two small prospect pits along a third (?) narrow tactite zone were examined and found to contain traces of scheelite; traces of powellite were found in the small pit nearest the south tactite trench. Although the tactite exposed in both of the small pits might be connected, there appeared to be no connection between this narrow zone and either the north or south tactite zones.

Traces of scheelite in tactite were seen in the stream bottom about one-fourth mile west of the proposed contract area. There are no outcrops of tactite between these localities so it is difficult to say whether or not this cropping is related to those in the proposed contract area.

There is no scheelite production record from the Dixie Ridge (or Dixie Queen) claims. The size of the workings indicate that not more than a few thousand pounds of rock could have been mined--if any.

ORE RESERVES

There are no measured reserves on the Dixie Ridge claims. Indicated reserves at the west end of the north zone, in a block 20 feet long, 12 feet down the dip from the floor of the trench, and almost one foot thick, equal almost 24 tons of tactite with an average grade of 0.12 percent WO_3 or about three units of WO_3. Indicated reserves near the prospect shaft in a block 20 feet long, 15 feet down the dip, and 2 feet thick equals 60 tons of ore averaging 0.64 percent WO_3 or about 38 units of WO_3. Judging from the exposures seen, it is unlikely that more

than 500 tons of tactite assaying less than 0.1 percent WO_3 exists as inferred ore on this property. In estimating reserves, a factor of 10 cubic feet per ton of rock was used for the volumetric equivalent of tactite in place.

SAMPLING

Four samples were taken in connection with this examination as shown in fig. 2. Descriptions and analysis by the Bureau of Mines Hydrometallurgical and Ore Dressing Branch are as follows:

Sample No.	%, WO_3	Description
1	0.64	Chip sample across 2.7 feet of mineralized tactite exposed in upper cut, at site proposed for shaft and open-cut work by applicant.
2	2.38	Specimen sample of sorted ore from above site.
3	0.12	Chip sample across 0.7-foot of best mineralization shown in lower open cut.
4	0.28	Specimen sample of mineralized material sorted at lower cut.

PAST OPERATION

According to the applicant, the tungsten deposit was discovered about 1946; prospecting work has been done by him since 1948.

There is no record of production or ore shipments from this property.

APPLICANT'S PROPOSAL

The applicant has suggested a program of exploration listing seven separate items. These items are located on fig. 2 and are listed below with their estimated costs:

Item 1.	Sink 12 feet and drift 10 feet east to explore the north tactite zone under the granite dike	$1,083.00
Item 2.	Excavate an area 30 x 40 x 9 feet to expose the tactite, and to make a shaft collar for item 3 shaft sinking	2,260.00
Item 3.	Sink 35 feet to explore the tactite at depth	2,992.50
Item 4.	Sink 15 feet to explore tactite at the easternmost surface exposure	891.00
Item 5.	Excavate an area 32 x 14 x 4 feet for the portal site of item 6 drift	268.80
Item 6.	Drift 35 feet east to explore the south tactite zone.	1,748.25
Item 7.	Build 900 feet of road for access from existing road to workings	450.00
	Total	$9,693.55

All of this work would be done within the boundaries of the Dixie Ridge No. 1 claim. No work is contemplated for the Dixie Ridge No. 2 claim.

The above costs are the total estimated amounts, including labor and supervision to perform the actual exploration work. Additional estimated costs listed by him are as follows:

Miscellaneous hand tools (to be purchased)	$ 297.00
Operating equipment (to be purchased)	1,118.50
Miscellaneous materials and supplies	320.00
Insurance	125.00
Mine store house	224.00
Dining and kitchen building	295.00
	$ 2,379.50

Total cost of the proposed project would be:

Exploration work	$ 9,693.55
Other	2,379.50
Total	$12,073.05*

*Total corrected from estimated costs included in application.

The applicant's proposed exploration for the Dixie Ridge claim presents one way of prospecting a small mineral deposit. With this program the best showings would be explored and mined but the majority of the ground in between those showings would remain untouched.

At the time of the examination, other methods of exploration were discussed with the applicant. A small diamond drilling program was considered and rejected because of the lack of information on which to base a small number of holes. An adequate drilling program for this type of deposit would cost nearly as much as the underground work. The applicant would rather use diamond drilling underground to determine the limits of any known ore bodies. Another method of underground exploration was discussed at the time of the examination in which a long (160- to 180-foot) adit would be driven along the north tactite zone under the pro-

posed workings. With a long drift instead of three short shafts, the best showings still would be explored, more convenient access for working the deposit would be gained, and more exploratory work could be done for an equal amount of money. Bulldozing to determine the structural relations and extent of these tactite zones should be done before any underground work is attempted. The applicant was not interested in any exploration program but his own.

As the scheelite mineralization on the Dixie Ridge claim is low grade and occurs locally in narrow bands averaging one foot in thickness, and the reserves are quite small, it is recommended that the applicant's request for a DMEA loan be denied.

OTHER INFORMATION

A previous application for Government assistance was made by Mr. D. O. Whitt in August 1951 (Docket No. DMA-696X). This application was for a loan of $10,000.00 to perform exploration work on both the Dixie Ridge and Dixie Queen claims. The location and type of work proposed in this original application was essentially the same as that later proposed and considered in this report. An examination report by Russell R. Trengove, dated October 18, 1951, recommended denial of a loan as requested in the original application.

Apparently very little additional work has been done on the property since the original examination; and present exposures are too low in tungsten content to warrant participation by the Government in the proposed exploration program.

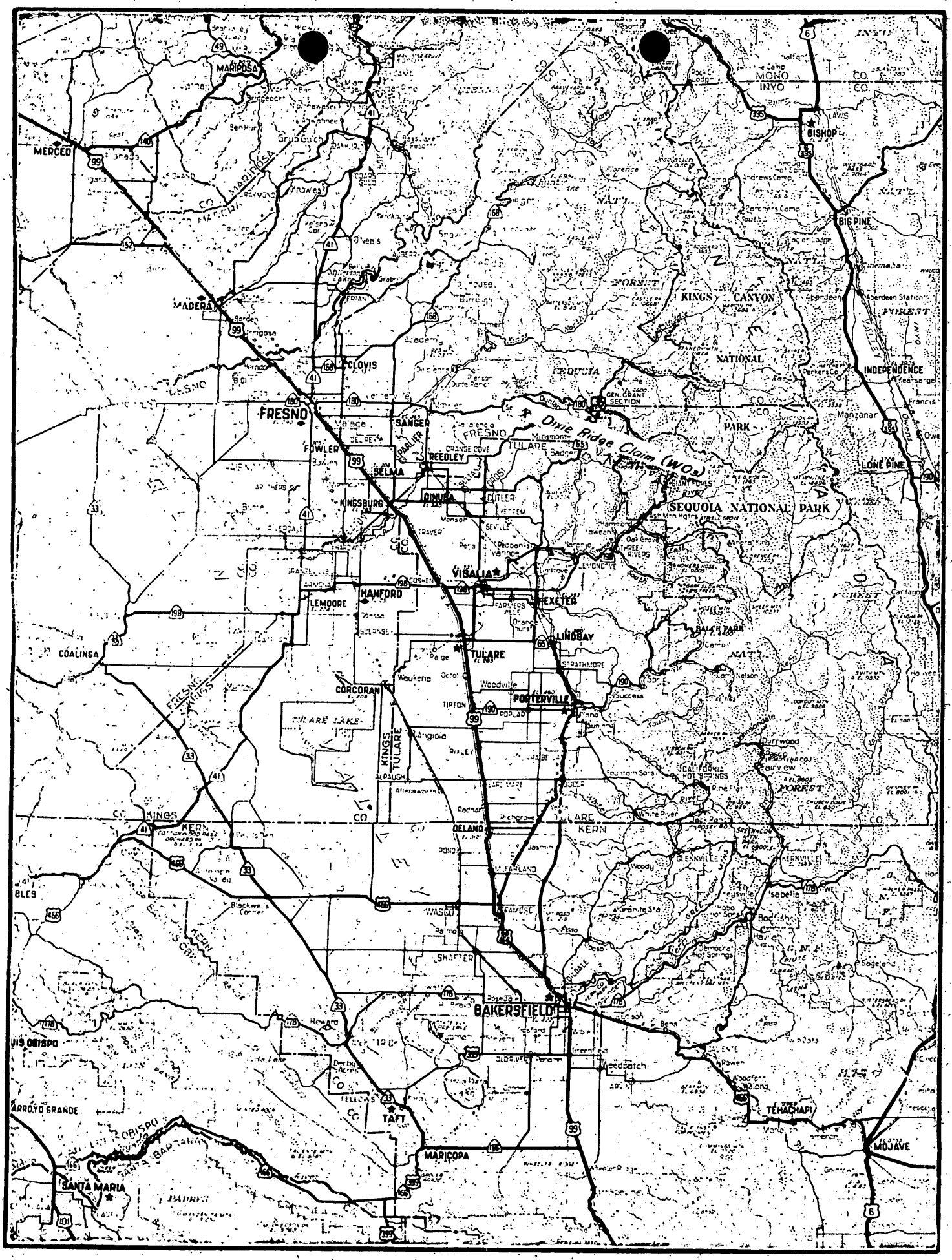
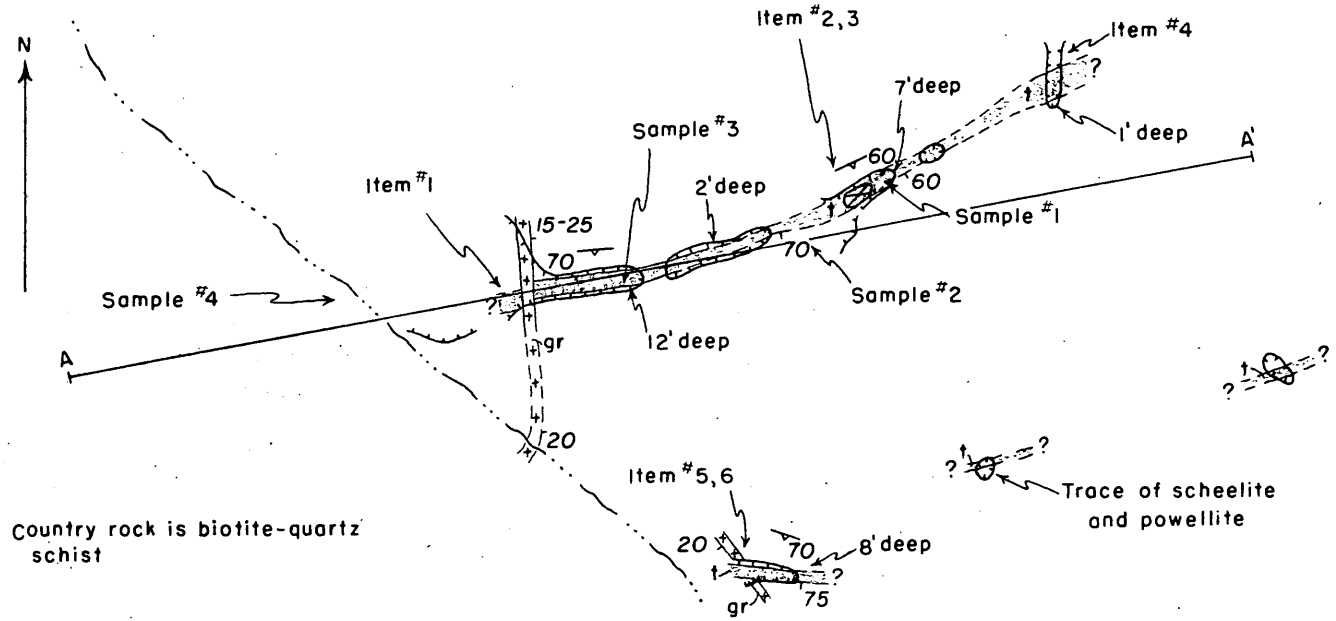
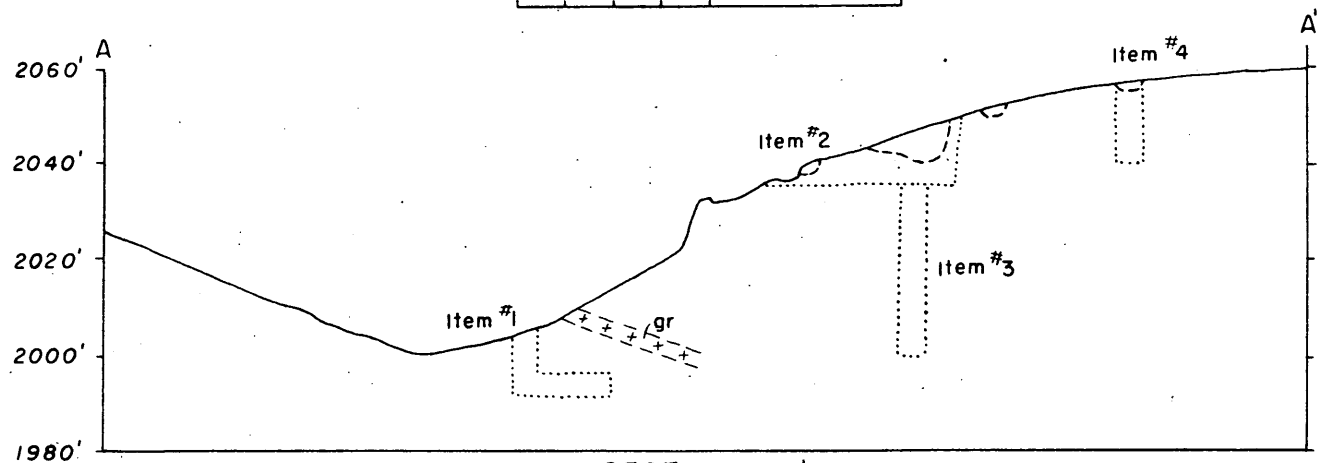


FIG. 1 LOCATION MAP



GEOLOGIC SKETCH MAP

0 40 80 Feet



SECTION A-A'

Brunton-Tape survey by E.H. Pampeyan
and R.M. Smith, November 1954

EXPLANATION

gr
Granite dike

Tactite

60
Contact, showing dip
Dashed where approximately located

70
Strike and dip of schistosity

Trench or pit

Collar of prospect shaft

Scheelite mineralization

Item #3
Site for proposed exploration work

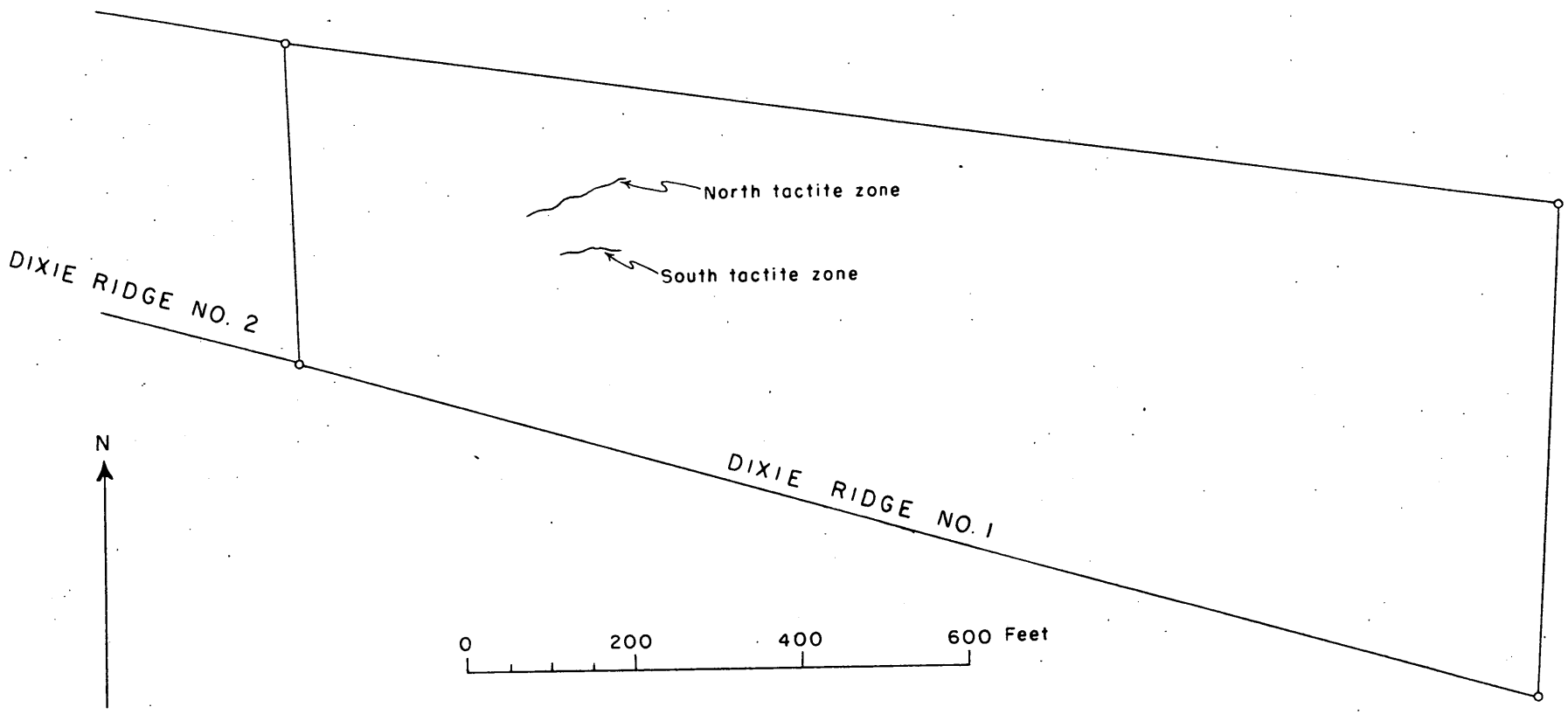
Workings projected to plane of section

Proposed workings projected to plane of section

SKETCH MAP AND SECTION OF THE DIXIE RIDGE WORKINGS, FRESNO COUNTY, CALIFORNIA
Figure 2

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3516
(TUNGSTEN)



MAP OF DIXIE RIDGE CLAIMS, FRESNO COUNTY, CALIFORNIA

Figure 3

JAN - 6 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

Dear M. Richer:

Reference is made to the subject docket, our teletype of December 7, 1954, and your reply of December 8.

Because a reply to the applicant is being held in abeyance until we have the Field Team report, it would be appreciated if you could expedite our receiving the necessary data.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FARutledge:foc
1-4-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

DEC - 8 1954

Mr. Duke O.Whitt

Dunlap, California

Re: Docket No. DMEA 3516 - Tungsten
Dixie Ridge claim
Fresno County, California

Dear Mr.Whitt:

This will acknowledge your letter of December 1, 1954, inquiring as to the status of the above-docketed application for exploration assistance on the Dixie Ridge claim.

Our Field Team examined the subject claim, as we understand, on November 4. When we have had an opportunity to review their complete report, which is expected toward the end of December, you will be promptly advised of our decision.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge/ls
12-8-54
cc: Docket
Field Team, Reg. 3
Code 400
Adm. Read. File
R. W. Geehan, USBM
Thor Kiilsgaard, USGS

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM S. Ricker

BUREAU Bureau of Mines

CHG. APPROPRIATION 400

U. S. GOVERNMENT PRINTING OFFICE 10—1723

TELETYPE December 7, 1954 11:30 a.m.

To: George C. Selfridge, Chairman, Operating Committee, Defense Minerals Exploration Administration, Interior Building Washington 25, D. C.

Reurtt December 7. Examination on Docket DMEA-3516 made November 4 and report which should be transmitted within a week will recommend denial.

S. Ricker
Executive Officer
DMEA Field Team, Region III

Approved by: S. RICKER
S. Ricker

CONFIRMATION

400

Interior Department
Defense Minerals Exploration Administration
14X4401(01) Revolving Fund, Defense Production Act, Interior
(Allocated Working Fund to the Office of the Secretary)

DEC - 7 1954

T E L E T Y P E

To: Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region 3
San Francisco, California

Re Docket DMEA 3516, Duke O. Whitt, Dixie Ridge claim, Fresno County, California.

Please wire date of scheduled examination or summary of your recommendations if examination and review are completed.

George C. Selfridge
Chairman, Operating Committee

cc: Docket
Code 400
Adm. Reading File
Oper. Committee
Field Team, Region 3
R. W. Geehan, USBM
Thor Kiilsgaard, USGS

WSMartin/ls
12/6/54

OCT 21 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Customhouse Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

Dear Mr. Miller:

Reference is made to the above-docketed application for exploration assistance that was referred to your office on October 11, 1954, for a field examination of the property.

Two copies of a relevant memorandum dated October 14, 1954, by L. L. Hawcomb, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosure

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

FARutledge:foc
10-19-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

OCT 11 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Customhouse Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3516 - Tungsten
Duke O. Whitt
Dixie Ridge claim
Fresno County, California

Dear Mr. Miller:

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

An earlier request by the Applicant for exploration assistance at the same property under Docket No. DMEA 696 was denied February 19, 1952. Review of the sampling data available at that time suggests that further sampling should be an important part of the next examination.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FARUTLEDGE:foc
10-6-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

OCT 11 1954

Mr. Duke O. Whitt
Dunlap
California

Re: Docket No. DMEA 3516 - Tungsten
Dixie Ridge claim
Fresno County, California

Dear Mr. Whitt:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 420 Customhouse Building, 555 Battery Street, San Francisco 11, California, for a field examination of the property.

Any assistance that you can render the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARUTIEDGE:fec
10-6-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

IN REPLY REFER TO:

1400

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

October 14, 1954

Re: DMEA-3516
Duke O. Whitt
(Dixie Ridge Claim)
Fresno Co., Calif.
$12,062 - Tungsten

Memorandum

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

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

Subject: Review of application

The applicant proposes a project which apparently involves trenching, shaft sinking, and drifting to explore for tungsten mineralization beneath a granite dike or sill.

We do not have any information in our files on this property.

There is not sufficient data presented to judge whether exploration is warranted. The applicant states his ore averaged around 1% WO_3, but I do not find any assay certificates in the docket material. Although more complete data would be desirable, I doubt that correspondence with the applicant will provide enough information to make a firm recommendation.

I recommend the application be referred to the Field Team for an examination and report.

E. L. Newcomb

ELNewcomb:hlm
G-10/14/54

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 4 1954

400

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

September 28, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Loan - Tungsten
Duke O. Whitt
Dunlap, California

3516

Attached are three sets of MF-105 forms received in our mail from Duke O. Whitt, making application for a loan on the Dixie Ridge Mining Claim in Fresno County, California. The fourth set has been retained for our records.

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

Enclosures

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

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

May 20, 1954

Mr. D. O. Whitt
Dunlap
California

Dear Mr. Whitt:

We acknowledge your letter dated May 16, 1954, informing us that as a result of work done on your tungsten property during the past two years, you now believe you can qualify for a DMEA loan.

Our files show that your original application for a loan was made in August 1951, that it was assigned Docket No. DMA-696X, and that following an examination of the property, the Administrator of DMEA informed you by letter dated February 19, 1952, that your application had been denied.

Inasmuch as you have done considerable work on your property since then and, as you write, have opened up some good tungsten mineralization, I suggest, since you have expressed a desire to have your application reopened, that you make a new application for a DMEA loan on the forms supplied you herewith.

Enclosed also is a copy of DMEA Order-1, and of the booklet entitled "The Defense Minerals Exploration Administration Program."

Should you need any additional information, please do not hesitate to call on us at any time.

Sincerely yours,

H. C. Miller

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

Enclosures

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

February 11, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Denial of exploration project in the amount of $10,000.00
Docket No. DMA 696X - Tungsten
Dixie Ridge Mining Claim
Fresno County, California

The subject application was denied by this Division for the following reasons:

1. Narrow bands and poor scheelite mineralization in tactite varying from 10 inches to 30 inches in width, indicate that, geologically, there is little probability of making a significant mineral discovery.

2. Four samples taken by an engineer of the U.S. Bureau of Mines assayed from 0.01 percent WO_3 to 0.30 percent WO_3. A sample of the dump assayed 0.13 percent WO_3.

3. The tactite bands are separated by a layer of silicified schist which would dilute the ore and would make hand sorting a necessity.

4. The strike length of the surface exposures of tactite are short and the inferred ore reserves are estimated to amount to only 243 tons of 0.63 percent WO_3.

5. The mine is a prospect and has had no development nor operation.

6. The mill building on the property was equipped for milling gold ores and the building is about to collapse, and the ore concentrating table is not in usable condition.

7. The applicant's experience does not qualify him as a mine

operator and he stated to the examining engineer that unless he secured outside capital he would be unable to participate in the lease.

8. The Commodity Division recommended denial.

George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

GGGentry'lm
2/11/52

cc: Admn. Reading File
Docket
G. C. Selfridge
G. G. Gentry

FEB 19 1952

Mr. Duke O. Whitt
Dunlap,
California

Re: Docket No. DMA 696X - Tungsten
White Ridge Mining Claim
Fresno County, California

Dear Mr. Whitt:

Your application for aid for an exploration project and other data relating to your application available to us in Washington have been carefully reviewed.

This information, while noting a small amount of marginal ore on your property, indicates that, geologically, there is little probability of making a significant mineral discovery. We regret, therefore, to inform you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:lm
2/11/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

Denied 2/5

JAN 28 1952

Mr. N. C. Miller
Executive Officer, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMA 696X - Tungsten
Dixie Ridge Mining Claim
Fresno County, California

Dear Mr. Miller:

A field examination of the above noted property was requested of your office by letter dated August 23, 1951.

Please advise us as to the progress of your investigation at this time.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry'lm
1/24/52

cc: Adm. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

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

February 14, 1952

Memorandum

To: George C. Selfridge, D.M.E.A.

From: Robt. W. Geehan, U. S. Bureau of Mines

Subject: Exploration Application DMA-696X
Dixie Ridge Mining Claim Tungsten
Fresno County, California

I agree that the application should be rejected, and have surnamed the letter to the applicant.

However, I do not agree with the memo to the Acting Administrator and have not surnamed it for the following reasons:-

(A) Point 2 does not mention the good samples and implies that nothing better than 0.3% WO3 was sampled. How did you then come up with 243 tons of 0.63% ore in point 4? There were 2 samples that ran 0.75 and 0.41 respectively.

(B) Points 5 and 6 are worth mention but have no real bearing on the rejection.

(C) Although I agree with the statement in point 7, it would seem that the applicant has enough experience to conduct an exploration program. In most of the other DMEA projects in the $10,000 and under class, the applicant lists his time, etc. to cover his share of the cost. If the other factors had been favorable I do not believe that the lack of experience and money would have justified the rejection.

Robert W. Geehan

Robert W. Geehan

August 10, 1951

Memorandum

To: Tungsten Branch, DMA

From: D.M.Lemmon, U. S. G. S.

Subject: Exploration application of DMA 696 X -- Tungsten
Duke O. Whitt
Dunlap
California

Whitt applied for an exploration application costing $10,000 on the Dixie Ridge Mining Claim, Sec. 3, T. 14 S., R. 26 E., Dinuba quadrangle, Fresno County, California, 1 mile west from Dunlap. He previously applied for a production loan of $10,000 which was denied May 14 (see my memo of March 15 for summary of proposal).

It is proposed to sink a shaft an additional 65 feet to the 80 foot level, and to drive a connecting 100-foot adit at the 40-foot level. In addition, costs of $5,000 are included for mill equipment and installation. If the non-allowable items which are not exploration are deducted, the project cost would be about $7,000.

The work would bedone in a tactite layer 140 feet long and 3 to 8 feet wide, and would partially block out 3,000 to 5,000 tons of tactite, the grade of which is unknown. An examination of the workings in 1943 by the Geological Survey resulted in an estimate that the rock contained only about 0.2% of WO_3. Apparently no samples were assayed. If the rock exposed is of this grade, the further exploration exposed is not warranted.

It is recommended that the field team be requested to sample the deposit to determine the expectable grade of the ore. Unless sampling bears out the contention of the applicant that the ore contains 0.5 to 3.0% of WO_3, the proposal should be rejected.

Dwight M. Lemmon

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-696X, Whitt Tungsten Property

Fresno County, Calif.

Russell R. Trengove, Mining Engineer
U. S. Bureau of Mines

October 18, 1951

DOCKET DMA-696X

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

WHITT TUNGSTEN PROPERTY
Fresno County, Calif.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The U. S. Bureau of Mines examined the Whitt Tungsten property situated one mile east of Dunlap, Calif., in September 1951. The purpose of the examination was to determine the justification of a proposed Government loan of $10,000 for explorationwork.

Four samples (fig. 1) of mineralized tactite in place, taken by the U. S. Bureau of Mines engineer[1/], averaged 0.30% WO_3 and 0.01 Mo. A sample of a small dump analyzed 0.13% WO_3.

Ore showings on the property are not impressive. The narrow bands of shheelite on the property cannot be mined economically and the showing on the property is not impressive enough to warrant an exploration loan.

Drifting, shaft sinking or any other exploratory work is not recommended for the following reasons:

1. The mineralization is very poor.

2. The scheelite bearing tactite bands vary from 10 to 30 inches in width and are separated by a layer of silicified schist which would necessitate sorting. Therefore, it could not be mined economically.

3. Mr. Whitt's experience does not qualify him as a mine operator and unless he secured outside capital he is unable to participate in the proposed loan.

4. The possible ore reserve is not impressive.

1/ Russell R. Trengove.

The Whitt tungsten property should receive no further consideration from the Defense Minerals Administration.

INTRODUCTION

An application for a Government loan under sec. 302 of the Defense Production Act of 1950 was made by D. O. Whitt, owner, June 15, 1951. The owner requested the loan for building 800 feet of road to the deposit, sinking a shaft 65 feet to the 80-foot level, clearing debris for adit site and driving about 100 feet of adit. The property was examined by an engineer of the Bureau of Mines on September 11, 1951. He was accompanied by the owner.

LOCATION AND PHYSICAL FEATURES

The Whitt tungsten property, situated about 20 miles west of the Sequoia National Park, consists of 1 unpatented mining claim, the Dixie Ridge, staked in 1938 or 1939. It is located in sec. 3, T. 14 S., R. 26 E., Dinuba quadrangle, 1 mile west of Dunlap, Fresno County, Calif. It is several hundred feet south of the hard-surfaced highway. The claim lies on the western slope of the Sierra Nevada range at an altitude of about 2,000 feet. The immediate area is mountainous with a heavy growth of white oak and natural grass covering. Mine timber is available 10 miles from the property.

Water is available in a creek on the property except for the months of July to October, inclusive. A well would have to be drilled to provide water for a continuous mining and milling operation.

Mine supplies can be obtained in Fresno, Calif., 42 miles distant. The nearest railroad shipping point is the Santa Fe railroad at Orange Cove, 16 miles by road southwest of Dunlap, Calif.

Structures on the property consists of two small shacks and the remains of the Dixie Queen gold mill which is about to collapse.

Transmitted power is available one half mile from the property. This is a low voltage line at present.

The equipment on the property is as follows:

1 25-horsepower engine, Fairbanks-Morse (distillate)
1 8-inch by 10-inch jaw crusher
1 Ore feeder with hopper
2 Centrifugal pumps, $1\frac{1}{4}$ inch, $1\frac{1}{2}$ inch, with line shafts, pulleys
1 Chilean type mill
1 Rod mill
1 Overstrom table (has been exposed to weather for years) (and is of no value except for the (steel base)
150 feet of $1\frac{1}{2}$ inch pipe
90 feet of $1\frac{1}{4}$ inch pipe

DESCRIPTION OF THE DEPOSIT

The deposit occurs in two nearly vertical tactite zones, known as the Dixie Queen and the Dixie Ridge (fig. 1).

The Dixie Queen zone, bearing N. 75° E. and dipping 75° S., is exposed only in two places but some scheelite was in the trench according to the owner. This trench has sloughed in and no effort has been made by the owner to clean this trench or any other excavations on the property. Assuming some scheelite bearing tactite exists in the trench, the Dixie Queen has a known length of 106 feet along the strike and varies in width from 20 inches to 2 feet. At Sta. 0 + 57 (fig. 1), the two bands of tactite, 18 inches and 16 inches in width are separated by a 14-inch band of silicified schist.

The Dixie Ridge zone bearing east-west and dipping 70° S., and separated from the Dixie Queen by about 60 feet of schist intruded with

granite dikes, is exposed at one point in a trench 22 feet in length. Here, also, we have two 10-inch bands of scheelite-bearing tactite, separated by 14 inches of silicified schist. A chip sample of probably sorted material found on the dump assayed 0.13% WO_3.

Massive granite is found 150 feet north of the Dixie Queen tactite zone, and 50 feet south of the Dixie Ridge.

ORE RESERVE

Dixie Queen:

Assuming that the 18-inch thick scheelite-bearing tactite extends 25 feet east and west from Sample 2 at Station 0+57 and is 25 feet in depth, the computation of the ore reserve would be as follows:

50 x 25 x 1-1/2 = 1,875 cu. ft. ÷ factor 12 = 156 tons 0.75% WO_3

Dixie Ridge:

Using the same assumptions on the 10-inch thick scheelite-bearing tactite, the computation of the ore reserve would be as follows:

50 x 25 x 5/6 = 1,042 cu. ft. ÷ factor 12 = 87 tons 0.41% WO_3

Total 243 tons 0.63% WO_3

CONCLUSIONS

Ore showings on the property are not impressive. A small amount of hand trenching at intervals along the strike would disclose the strike length. Although such work may increase the ore reserves considerably, the narrow bands of scheelite could not be mined economically because of dilution by blasting.

Further exploration is not warrented.

Answers to questions in Review of Application for Exploration Assistance.

4. (e) There is no other alternative and favorable project. Not sufficient diamond drill footage to get a diamond drill contractor interested in a contract.

9. Experience of the applicant.

Worked as a miner and later leasing at the White Cross gold mine, Calif. at various periods for 8 years. Was assistant foreman for 1 year at the Carson Hill gold Mine near Sonora, Calif. Was also employed as a timberman and miner at the Old Globe mine, Globe, Ariz. for less than a year.

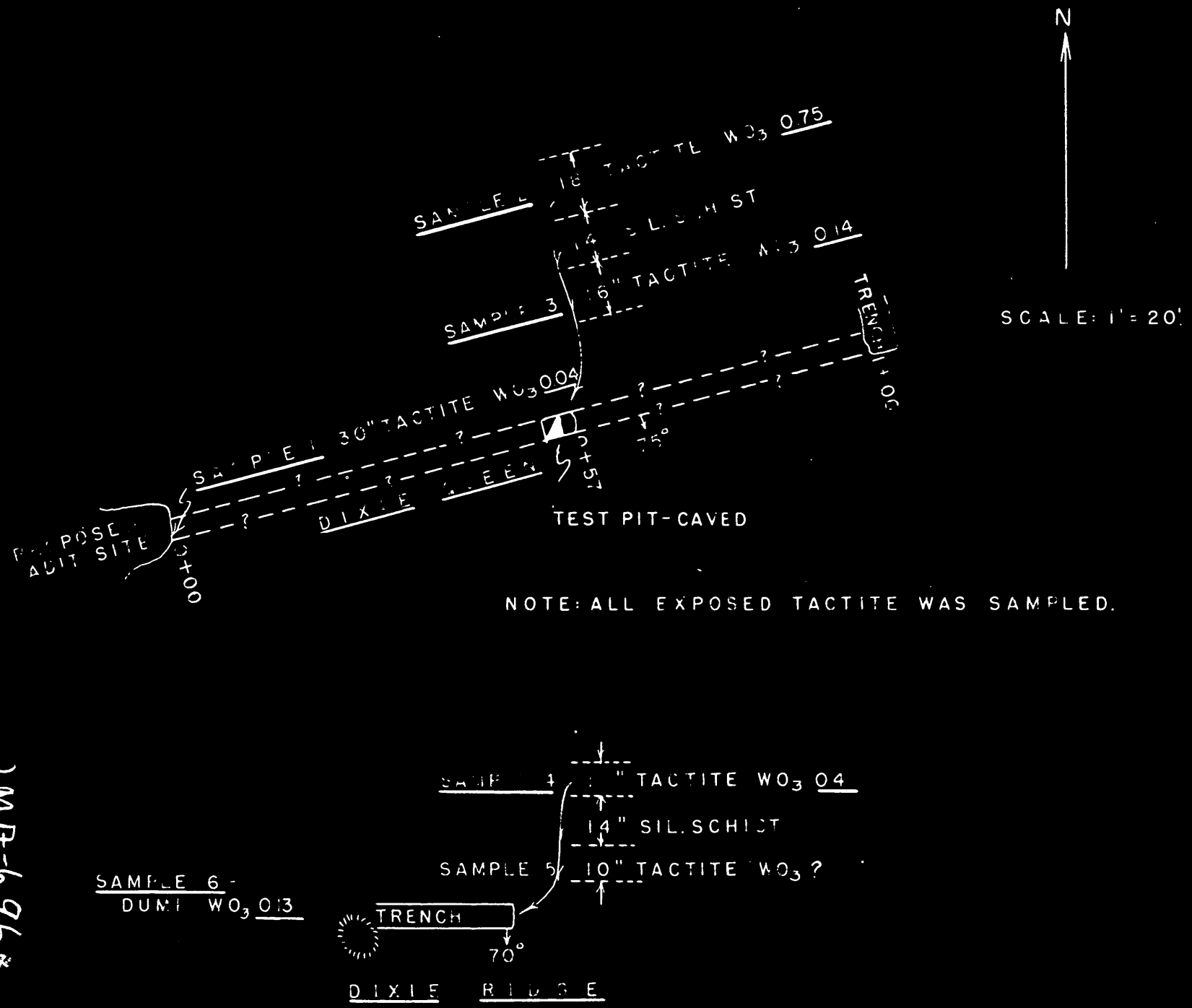
His milling experience is as follows: Exployed as a helper in various gold mills and operated the Dixie Queen gold mill for several years.

At present he is living in a shack on the property, taking care of 14 head of cattle, repairing fencing, and does a little prospecting. It doesn't appear that he has done any work whatsoever on either the Dixie Queen or Dixie Ridge prospects for several years. Present exposures were made many years ago.

His ability as mine operator is questionable. He stated that his lack of finances would prohibit him from spending much money on exploration work until he received his first Government check.

The Dixie Queen gold mill is worthless and should never be considered for use as a tungsten mill. The structure is about ready to collapse.

When questioned about the proposed exploration work, the applicant was unable to furnish a statement of his immediate requirements for mining equipment and supplies. He had no definite knowledge of where he could secure miners or what he would have to pay them.



JMR-6 96 x

FIG. 1 WHITT TUNGSTEN PROPERTY, FRESNO COUNTY, CALIF.

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
NOV 13 3 14 PM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-696X, Whitt Tungsten Property

Fresno County, Calif.

Russell R. Trengove, Mining Engineer
U. S. Bureau of Mines

October 18, 1951

DOCKET DSA-696X

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

WHITT TUNGSTEN PROPERTY
Fresno County, Calif.

SUMMARY, CONCLUSIONS, and RECOMMENDATIONS

The U. S. Bureau of Mines examined the Whitt Tungsten property situated one mile east of Dunlap, Calif., in September 1951. The purpose of the examination was to determine the justification of a proposed Government loan of $10,000 for exploration work.

Four samples (fig. 1) of mineralized tactite in place, taken by the U. S. Bureau of Mines engineer[1], averaged 0.30% WO_3 and 0.01 Mo. A sample of a small dump analyzed 0.15% WO_3.

Ore showings on the property are not impressive. The narrow bands of scheelite on the property cannot be mined economically and the showing on the property is not impressive enough to warrant an exploration loan.

Drifting, shaft sinking or any other exploratory work is not recommended for the following reasons:

1. The mineralization is very poor.

2. The scheelite bearing tactite bands vary from 10 to 30 inches in width and are separated by a layer of silicified schist which would necessitate sorting. Therefore, it could not be mined economically.

3. Mr. Whitt's experience does not qualify him as a mine operator and unless he secured outside capital he is unable to participate in the proposed loan.

4. The possible ore reserve is not impressive.

1/ Russell H. Trengove.

The Whitt tungsten property should receive no further consideration from the Defense Minerals Administration.

INTRODUCTION

An application for a Government loan under sec. 302 of the Defense Production Act of 1950 was made by D. O. Whitt, owner, June 15, 1951. The owner requested the loan for building 800 feet of road to the deposit, sinking a shaft 65 feet to the 50-foot level, clearing debris for adit site and driving about 100 feet of adit. The property was examined by an engineer of the Bureau of Mines on September 11, 1951. He was accompanied by the owner.

LOCATION AND PHYSICAL FEATURES

The Whitt tungsten property, situated about 20 miles west of the Sequoia National Park, consists of 1 unpatented mining claim, the Dixie Ridge, staked in 1948 or 1949. It is located in sec. 5, T. 14 S., R. 26 E., Dinuba quadrangle, 1 mile west of Dunlap, Fresno County, Calif. It is several hundred feet south of the hard-surfaced highway. The claim lies on the western slope of the Sierra Nevada range at an altitude of about 2,000 feet. The immediate area is mountainous with a heavy growth of white oak and natural grass covering. Mine timber is available 10 miles from the property.

Water is available in a creek on the property except for the months of July to October, inclusive. A well would have to be drilled to provide water for a continuous mining and milling operation.

Mine supplies can be obtained in Fresno, Calif., 42 miles distant. The nearest railroad shipping point is the Santa Fe railroad at Orange Cove, 16 miles by road southwest of Dunlap, Calif.

Structures on the property consists of two small shacks and the remains of the Dixie Queen gold mill which is about to collapse.

Transmitted power is available one half mile from the property. This is a low voltage line at present.

The equipment on the property is as follows:

1 25-horsepower engine, Fairbanks-Morse (distillate)
1 8-inch by 10-inch jaw crusher
1 Ore feeder with hopper
2 Centrifugal pumps, 1½ inch, 1½ inch, with line shafts, pulleys
1 Chilean type mill
1 Rod mill
1 Overstrom table (has been exposed to weather for years) (and is of no value except for the) (steel base)
180 feet of 1½ inch pipe
90 feet of 1½ inch pipe

DESCRIPTION OF THE DEPOSIT

The deposit occurs in two nearly vertical tactite zones, known as the Dixie Queen and the Dixie Ridge (fig. 1).

The Dixie Queen zone, bearing N. 75° E. and dipping 75° S., is exposed only in two places but some scheelite was in the trench according to the owner. This trench has sloughed in and no effort has been made by the owner to clean this trench or any other excavations on the property. Assuming some scheelite bearing tactite exists in the trench, the Dixie Queen has a known length of 105 feet along the strike and varies in width from 20 inches to 2 feet. At Sta. 0 + 57 (fig. 1), the two bands of tactite, 18 inches and 16 inches in width are separated by a 14-inch band of silicified schist.

The Dixie Ridge zone bearing east-west and dipping 70° S., and separated from the Dixie Queen by about 60 feet of schist intruded with

granite dikes, is exposed at one point in a trench 22 feet in length. Here, also, we have two 10-inch bands of scheelite-bearing tactite, separated by 14 inches of silicified schist. A chip sample of probably sorted material found on the dump assayed 0.18% WO_3.

Massive granite is found 150 feet north of the Dixie Queen tactite zone, and 50 feet south of the Dixie Ridge.

ORE RESERVE

Dixie Queen:

Assuming that the 18-inch thick scheelite-bearing tactite extends 25 feet east and west from Sample 2 at Station 0 + 87 and is 25 feet in depth, the computation of the ore reserve would be as follows:

50 x 25 x 1-1/2 = 1,875 cu. ft. ÷ factor 12 = 156 tons 0.78% WO_3

Dixie Ridge:

Using the same assumptions on the 10-inch thick scheelite-bearing tactite, the computation of the ore reserve would be as follows:

50 x 25 x 5/6 = 1,042 cu. ft. ÷ factor 12 =		87 tons 0.41% WO_3
	Total	243 tons 0.65% WO_3

CONCLUSIONS

Ore showings on the property are not impressive. A small amount of hand trenching at intervals along the strike would disclose the strike length. Although such work may increase the ore reserves considerably, the narrow bands of scheelite could not be mined economically because of dilution by blasting.

Further exploration is not warranted.

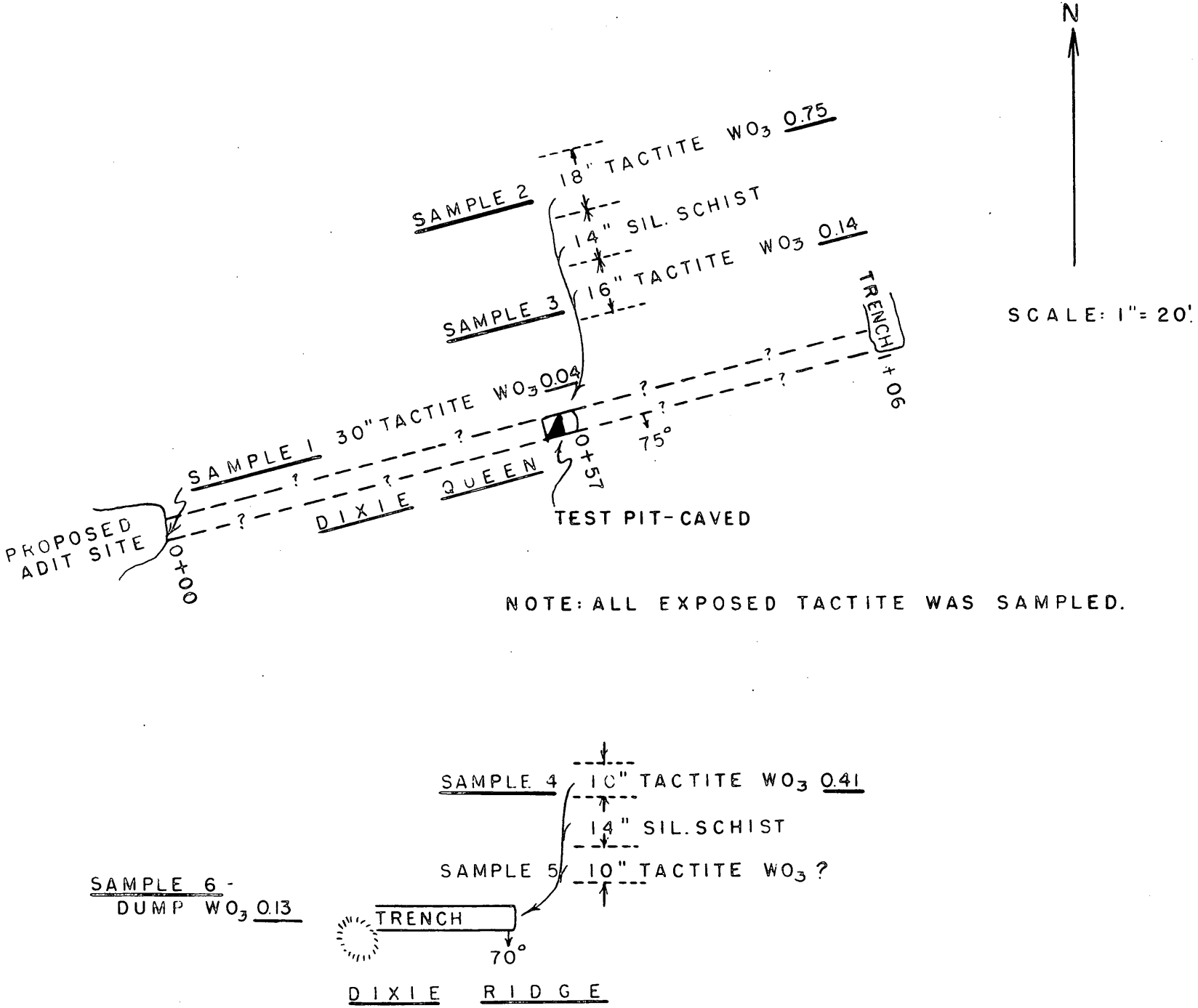


FIG. 1. WHITT TUNGSTEN PROPERTY, FRESNO COUNTY, CALIF.

Answers to questions in Review of Application for Exploration Assistance.

4. (e) There is no other alternative and favorable project. Not sufficient diamond drill footage to get a diamond drill contractor interested in a contract.

9. Experience of the applicant.

Worked as a miner and later leading at the White Cross gold mine, Calif. at various periods for 8 years. Was assistant foreman for 1 year at the Carson Hill gold mine near Sonora, Calif. Was also employed as a timberman and miner at the Old Globe mine, Globe, Ariz. for less than a year.

His milling experience is as follows: Employed as a helper in various gold mills and operated the Dixie Queen gold mill for several years.

At present he is living in a shack on the property, taking care of 14 head of cattle, repairing fencing, and does a little prospecting. It doesn't appear that he has done any work whatsoever on either the Dixie Queen or Dixie Ridge prospects for several years. Present exposures were made many years ago.

His ability as mine operator is questionable. He stated that his lack of finances would prohibit him from spending much money on exploration work until he received his first Government check.

The Dixie Queen gold mill is worthless and should never be considered for use as a tungsten mill. The structure is about ready to collapse.

When questioned about the proposed exploration work, the applicant was unable to furnish a statement of his immediate requirements for mining equipment and supplies. He had no definite knowledge of where he could secure miners or what he would have to pay them.

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

8/11/51

Mr. H.C. Miller, Executive Officer
DMA Field Team Region III
1012 Flood Bldg.
870 Market St.
San Francisco 2, California

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 696-X
Commodity Tungsten
Applicant Duke O. Whitt

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

8/11/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 696-X

Commodity Tungsten

Total Amount $10,000

Govt. Participation

1. Name and Address of Applicant Duke O. Whitt, Dunlap, Fresno County, California

2. Location of Property Sec. 3, Twp. 14 Range 26 E, Fresno Co., California, 1 mile west of Dunlap

3. Mineral or metal Tungsten Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project? Determine
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes, Owner
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future

productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? NO

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? Check

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Fair

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? Sketch of section showing proposed work

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? No

If not, what part of it is? About 2/3 of the proposal is for exploration, the balance is for milling. Please assist applicant on his cost estimates.

Is this part a worthwhile exploration project? Appears reasonable

d) Are the cost estimates detailed? Poorly

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? No

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Check

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable?

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed?

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? NO

c) Reasonable?

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Applicants cost estimates are erratic and should be straightened out. Applicant should rent the needed equipment if available. The mill equipment can not be allowed. If deposit merits exploration, please determine if applicants proposed exploration is satisfactory, and if funds requested are adequate.

U.S.G.S. notes indicate the following:
Scheelite in 2 steep layers of tactite 60' apart. One layer is 140 ft. long and 3-8' wide, and the other is 20 ft. long, width not stated. Content of WO_3 estimated by owner at 0.5 - 3.0 %, by U.S.G.S. (1943) at 0.2 %. Reserve of ore estimated by owner at 1,500 tons. Content WO_3 not known because of insufficient sampling.

Reviewed by: J. J. Mallard
Dwight M. Lemmon

Date 8/4/51

INT.-DUP. SEC., WASH., D.C. 99009

8/13/51

List of File to Field Team

DMA-696 X Tungsten

Duke Whitt, Dunlap, Calif.

1- MF-103 with attached answers
1- " 100 " " "
1- Penciled sketch
1- letter Whitt to Holderer 8/1/51
1- copy " Bradley " Whitt 5/14/51
1- referral sheet
1- 8 pages information & sketches 1/15/51

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. Dma-696 X

Date received 6/25/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LANDON F. STROBEL
Executive Secretary

D.O. Whitt
Dunlap, Calif

Name and address of applicant

Date June 15/51

FILL IN THIS BLOCK

Date of application June 13/51

Estimated cost 10,000

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Dunlap Calif in Sec. 3-Tws 14-Range 26E Fresno County Calif

Date of filing MF-100 June 15/51

DMA Docket Number, if available 696

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

    (*b*) State briefly the known history and production of adjoining and neighboring properties.

    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

    (*a*) Describe the ore or mineral deposits briefly.

    (*b*) Submit available maps and assay data.

    (*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

    (*b*) Supervisors, by numbers and positions, with salaries of each.

    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

    (*f*) Cost of rental for equipment which the operator proposes to rent.

    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By L. B. Whitt (Signature of authorized official)
June 15/51 (Date)	owner (Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

The Applicant

DMA-696

1. Individual.

2. No.

3. No.

4. Applicant is owner - will manage project - Has several years of mining experience, having been involved in actual mining operation with business experience.

5. Owner.

6. None.

7. No.

8. No Financial Statement available. Have other mining properties in vicinity - Tungsten and Gold.

9. 25% of Total Estimate cost $10,000.

10. Property involved is a mining claimin Fresno County with tungsten deposit
a. in a mineralized zone, and located in Tungsten belt extending along in lower mountains on Western Slope of Sierra Nevada Range, from Kern to Madera County. The immediate area is mountainous not rugged - about 2000 ft. elevation with rather heavy growth of White Oak Timber, and natural grass covering.

10 b. Mining Claim consisting of 20 acres situated in Section 3 Township 14, Range 26 E, County of Fresno, California

11. Dixie Ridge Mining Claim.

12. Property is located about 42 miles in easterly direction from City of Fresno and about 1 mile west of small Village of Dunlap. Nearest railroad shipping point at Orange Cove, about 18 miles in Westerly direction over surfaced highway.

A passable dirt road leads in from highway to property.

13. Water
Available and sufficient water in nearby creek, known as Mill Creek. There is considerable more than sufficient amount needed for mining and milling through nine months of continuous natural flow.

Sufficient water available for operation through all seasons. Pump installed in creek bed can be resorted to during short cessation of natural flow, ton insure continuous mining operations.

Power available: 25 H. P. Distilate engine power.

A recent electric power line has been brought in to immediately near property, however, not connected yet.

Estimate: 40 H. P.

14. Ore Car (1) - Rail Track 200 ft. - pipe 3/4" to 1½" - 200 ft-Anvil-tools - picks - shovels - tungsten lamp - Detonator

Building 3 Room House

Some nearby available Gold Milling equipment not on property, and with some additional equipment could be converted to condition useable for recovery of tungsten concentrates.

15. With the installation of additional milling equipment, all milling ores mined can be reduced to concentrates at property.

16. (a) No previous exploration. All surface development has been done by owner.

16. (b) Nearest tungsten mine with production record, located about 5 miles in southerly direction at Drum Valley has been rather heavy producer, the exact production record not known, however. At one time involved in law suit for extention of Lease. Has revealed had paid out at that time around $10000.00 in Royalties. 10% to 17% operations carried on for couple of years thereafter.

16. (c) At different occasions an engineer and geologist went over property in question briefly.

Their conviction was although comparatively small amount of development completed, seemed to be in accord, appeared favorable for further development as continuing surface shaft, driving tunnel on vein, with winze as first development.

In this development if ore body continues which is apparent favorable, there can be expected removal of some tonnage of milling ores, while carrying out proposed development.

17. Production

No production as yet.

18. Answered in IF 100 (No. 7)
A.
B.
C.

19.

20.

Tungsten (Scheelite)

Tactite Layer

21. Short Road - easily built to mine workings
Continuing surface shaft around 25 linear ft.
Clearing for Tunnel Site
Driving Tunnel on deposit around 100 linear feet
Winze about 40 linear ft. - Surface shaft 25 feet.

Allowing for preliminary work, installation and labor conditions, believe all exploration development can be completed less than five months, and in production of tungsten concentrates, with conditions favorable.

22. Believe favorable for ores for the following Reasons:
Deposit is situated in an immediate mineralized area and along a tungsten belt.

The tactite layer over 5 ft to 7 ft thickness appears vein like about 75° dip, has definite foot and hanging wall and definite mineralized structure over 150 linear feet to 50 ft. below out crop, so far determined with structure continuing.

Scheelite present appears persistent and throughout the structure from wall to wall, however at some points along strike showing less rich, other places considerably more enriched.

23. Requirements and Cost

						Total per day
(a)					For man	
	Miner	1	$1.75 per hr.	(7) hr shift	$12.25	$12.25
	Mucker	2	1.00 " "	(8) "	8.00	16.00
	Mill Man	1	1.75	(8) "	14.00	14.00
(b)						
	Foreman	1	1.75	(8) "	14.00	14.00
						56.25

165 Linear ft. Development Work - Total Labor $3000.00

(c)
Repairs - Machinery Equipment 200.00

(d)
Construction and Installation

Mining - 200.00
Milling - 600.00
Buildings - 200.00

Mining Equipment

(e)

Blasting Power - Caps- - - - - - - - - - - - - - - - - - -400.00
Pump - Pipe Fittings - - - - - - - - - - - - - - - - - - -400.00
Air Compressor (over 100 cu. ft. - - - - - - - - - - - 1000.00
Air Hammer- 400.00
Colum-Mountings - Steel Bits- - - - - - - - - - - - - - 400.00
Air Hoist (Small Lugger) - Cable - - - - - - - - - - - - 250.00
Pick up Truck Auto- - - - - - - - - - - - - - - - - - - 500.00
Lumber (Mining - Building)- - - - - - - - - - - - - - - 200.00

Milling Equipment

Rolls- 350.00
Ball Mill- 800.00
Electric Motor (40 H. P.)- - - - - - - - - - - - - - - - 200.00
Belting- 225.00
Concentrating Table- - - - - - - - - - - - - - - - - - - 300.00

(f) Not over $40.00 per month- - - - - - - - - - - - - - - 200.00

(g) No Charge - 00.00

(h) Cement-Nails - Tools - Coal-Tungsten Lamp batteries
Gasoline - Oil - and Incidentals- - - - - - - - - - - - 175.00

Cost
(i) Water - - - - - - - - - - no cost
Gasoline - - - - - - - - 22¢ per gal
Electric Power

24.

Would start on project soon as approved.
(First) Preparing Camp and Housing conditions for Labor
Initial work in preparation for mine development will include short road to mine openings.
Installation of pump in creek bed with pipe line for pumping water short distance to mine workings.
Surface clearing for mining equipment installed.
Surface excavation for Tunnel Site to be driven in ore body.
Preparing for Continuing surface shaft in ore body.

This preliminary work will take around 30 days to complete.

Cost:
For hiring Bulldozer- - - - - - - - - - - - - - - - - -$150.00
For Camp and Housing Conditions - - - - - - - - - - - 200.00
Installation of Pump and Pipe Line- - - - - - - - - - 400.00
Tools-Saws-Hammers-Pick-Shovels-Incidentals - - - - 200.00
Labor - 800.00

24

(2nd) After completion of this preliminary work purchase and installation of

Air Compressor - Drilling Equipment estimate - - - - - - -	$1000.00 1900
Blasting powder caps -	400.00
Air Hoist (Lugger) -	250.00
Lumber- -	200.00
Pickup (Auto) -	500.00

(3rd) Mine

Start Mine development
25 Linear Ft. Shaft
100 Linear Ft. Tunnel
40 Linear Ft. Winze

Estimate 90 days to complete

Labor Cost- - - - - - - 3000.00

(4th) Milling

Construction-Purchase of Additional Equipment and Installation to workable condition for reduction capacity of not less than 1 ton milling ore per hour

Estimate time to complete about 30 days

Total Cost- - - - - - - 2000.00

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-696 X

Date received 6/25/51

Addenum to MF-100

D.O. Whitt
Dunlap, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SECRETARY
JUN 25 1951
LARSON F. STROBEL
Executive Secretary

Name and address of applicant

Date June 15/51

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production .....

   If not in production or operation, estimated date when production will begin Within 5 mo after starting project
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

General Technical Data

1.
(a) Tungsten (Scheelite)
(b) None at Present

2. Dixie Ridge Mining Claim

(Loca) - a tactite layer in place about 75' dip.

Surface development.
(a) Shaft 24 linear feet
(b) Cross Cuts 10 feet
(c) Tunnel site started
(d) Surface open cuts 20 feet length - width 7 feet depth 20 feet
productive capacity not known at present.
Tactite layer varies in thickness from over 3 feet to 7 feet along about 130 linear feet in surface strike, so far determined to 50 feet depth below uppermost outcrop with ore in place continuing on in depth.
Workings not flooded - No indications.

3.
(a) 1 mile in westerly direction from small village of Dunlap
18 miles in Easterly direction from nearest shipping point
(Orange Cove)

(b) Mill Creek Mining District
Section (3) Twn. 14 S Range 26 E
County of Fresno, Calif.

4.
(a) Not in operation other than limited development by owner

(b) Owner

5.
It never been in production.
Believed could be in production of tungsten concentrates less than ~~6~~ 5 months after starting project.

6. Applicant has had several years experience in hard rock mining, being envolved in actual mine operation and business experience.

7.
(a) No previous exploration project other than limited surface development by owner and not having sufficient equipment to properly develop.

(b) Nearest property with production of tungsten situated in about five miles in southerly direction in same tungsten belt. Mine was worked during second world war.

Exact production not known other than involved in a suit for extention of lease was brought out over $10000.00 had been paid out in Royalties ranging from 10% to 17%

(c) At different occasions an engineer and geologist went over property in question briefly, and seemed to be in accord surface conditions seemed tobe favorable for further development.

Assays made in surface workings have been less than 5 to around 3% WO_3.
Concentrates have been pronounced as very good quality.
Known as a tactite layer arranged in a schist lime and granite layer, varying in thickness from around 3 feet to 7 feet with about 75' dip. Exposed by surface workings along 180 linear ft. strike so far determined to 50 ft depth below upper most outcrop, with conservative estimate of 1800 ton in place.

There is also a parallel tactite layer about 60 feet distance, carrying scheelite which may or may not have connection undeveloped. 4 ft. thickness.

12 Answered in No. 7.

13. Located 18 miles in easterly direction from nearest shipping point, small town Orange Cove.

Supplies can be obtained from this poi t - also City of Fresno, with small General store at Dunlop- 1 mile in easterly direction.

Surfaced highway comes within less than one half mile from property.

Dirt road passable leading off highway to property.

14. Available water in nearby Creek. Heads twenty miles above in highest mountains. More than sufficient quantity through natural continuous flow about 9 months.
There will be sufficient water for operations for all seasons of year.

15. Contemplate 30 to 40 H. P.

Recent Electric power line brought in 1/2 mile to immediately near mine workings as yet not connected up.

16. Contemplate
Miner 1
Shaker 2
Mill Men 1
Foreman 1

17. Ore car (1) - Rail track (12) lb. 600 feet (Good Condition)
Tools -vPicks-Shovels - 200 foot pipe - 3/4" to 1½".
House - 3 Room (Fair condition) tungsten Lamp
Available Major Equipment can be used includes - 8 x 10 inch Rock Crusher
Ore Feeder, (Line Shaft), (Pulleys)(Centrifugal Pump 1 hp.)
500 Gal Galvinized tank. (25 H. P. Distilate engine.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

D.O. Whitt
(Name of company)

By L.O. Whitt
(Signature of authorized official)

June 15/51
(Date)

owner
(Title)

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—63792-1

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER R
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. Dma-696X

Date received 6/25/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LANDON F. STROBEL
Executive Secretary

D.O. Whitt
Dunlap, Cali

Name and address of applicant

Date June 15/51

FILL IN THIS BLOCK

Date of application June 15 51

Estimated cost 10,000

Mineral or metal Turgsten

Percentage of Government participation 75%

Location of mine Dunlap Cali in
Sec 3-Twp 14-Range 26E (Fresno County Cali)

Date of filing MF-100 June 15/51

DMA Docket Number, if available 696

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By (Signature of authorized official)
June 15/51 (Date)	owner (Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

The Applicant

MAA-696

1. Individual.

2. No.

3. No.

4. Applicant is owner - will manage project - Has several years of mining experience, having been involved in actual mining operation with business experience.

5. Owner.

6. None.

7. No.

8. No Financial Statement available. Have other mining properties in vicinity - Tungsten and Gold.

9. 25% of Total Estimate cost $10,000.

10. Property involved is a mining claimin Fresno County with tungsten deposit
a. in a mineralized zone, and located in Tungsten belt extending along in lower mountains on Western Slope of Sierra Nevada Range, from Kern to Madera County. The immediate area is mountainous not rugged - about 2000 ft. elevation with rather heavy growth of White Oak Timber, and natural grass covering.

10 b. Mining Claim consisting of 20 acres situated in Section 3 Township 14, Range 26 E, County of Fresno, California

11. Dixie Ridge Mining Claim.

12. Property is located about 42 miles in easterly direction from City of Fresno and about 1 mile west of small Village of Dunlap. Nearest railroad shipping point at Orange Cove, about 18 miles in Westerly direction over surfaced highway.

A passable dirt road leads in from highway to property.

13. Water
Available and sufficient water in nearby creek, known as Mill Creek. There is considerable more than sufficient amount needed for mining and milling through nine months of continuous natural flow.

Sufficient water available for operation through all seasons. Pump installed in creek bed can be resorted to during short cessation of natural flow, ton insure continuous mining operations.

Power available: [illegible] H. P. Estimate entire power.

A recent electric power line has been brought in to immediately near property, however, not connected yet.

Estimate: 40 H. P.

14. Ore Car (1) - Mill Crew 200 ft. - pipe 3/4" to 1½" - 300 ft-drill-tools - picks - shovels - tungsten lamp - detonator

Building & Equipment

One nearby available Gold Milling equipment not on property, and with some additional equipment could be converted to a mill to recover of tungsten concentrates.

15. With the installation of additional milling equipment, all milling ores mined can be reduced to concentrates on property.

16. (a) No previous exploration. All surface development has been done by owner.

16. (b) Nearest tungsten mine with production record, located about 3 miles in southerly direction at Iron Valley has been rather heavy producer, the exact production record not known, however. At the time involved in law suit the extention of lease. Has recently had mill set at that time around [illegible] in Royalties. 10% to 17% operations carried on for couple of years thereafter.

18. (a) At different occasions an engineer and geologist came over property in question briefly.

Their correlation was although comparatively small amount of development completed, seemed to be in secret, appeared favorable for further development as continuing surface shaft, driving tunnel on vein, with view of first development.

In this development is no body continuous which is apparent favorable, there can be a small amount of some tonnage of milling ores, while carrying out pre-coal development.

17. Production

No production as yet.

17. Answers to 17 100 (No. 9)
A.
B.
C.

19.

20.

Tungsten (Scheelite)

Quartzite Layer

21. Short Cut - easily built to mine surface
Continuing surface shaft around 25 linear ft.
Starting for tunnel site
Driving tunnel on deposit around 120 linear feet
Line about 40 linear ft. - Surface shaft 25 feet.

Allowing for preliminary work, installation of labor conditions, believe all exploration development can be completed less than five months, and in production of concentrates, with conditions favorable.

22. Believe favorable for area for the following reasons
Deposit is situated in an irregular mineralized area and along a tungsten belt.

The textite layer over 3 ft to 7 ft thickness appears vein like about 70° dip. Has definite foot and hanging wall and definite mineralized structure over 150 linear feet to 60 ft. below out crop, so far intersected with structure continuing.

Scheelite present appears persistent and throughout the structure from wall to wall, however at some points along strike showing less rich, other places considerably more enriched.

23. Requirements and Cost

						Total per day
(a)					per man	
Miner	1	(1.75 per hr.	(7) hr shift		(12.25	(12.25)
Tucker	2	1.00 "	"	(8) "	8.00	16.00
Drill Jam	1	1.75		(8) "	14.00	14.00
(b)						
Foreman	1	1.75		(8) "	14.00	14.00
						56.25

160 linear ft. Development Work - Total Labor (9000.00)

(c)
Repairs - Machinery Equipment 500.00

(d)
Construction and Installation

Mining - 800.00
Milling - 800.00
Equipment - - - - - - - - - - - - - - - - - - - 500.00

Mining Equipment

(e)

Blasting Power - Caps- - - - - - - - - - - - - - - - - - -400.00
Pump - Pipe Fittings - - - - - - - - - - - - - - - - - - -400.00
Air Compressor (over 100 cu. ft. - - - - - - - - - - - 1000.00
Air Hammer- 400.00
Colum-Mountings - Steel Bits- - - - - - - - - - - - - - 400.00
Air Hoist (Small Lugger) - Cable - - - - - - - - - - - 250.00
Pick up Truck Auto- - - - - - - - - - - - - - - - - - 500.00
Lumber (Mining - Building)- - - - - - - - - - - - - - 200.00

Milling Equipment

Rolls- 350.00
Ball Mill- 800.00
Electric Motor (40 H. P.)- - - - - - - - - - - - - - - 200. 00
Bolti g- 225.00
Concentrating Table- - - - - - - - - - - - - - - - - - 300.00

(f) Not over $40.00 per month- - - - - - - - - - - - - - 200.00

(g) No Charge - 00.00

(h) Cement-Nails - Tools - Coal-Tungsten Lamp batteries
Gasoline - Oil - and Incidentals- - - - - - - - - - - 175.00

Cost
(i) Water - - - - - - - - - no cost
Gasoline - - - - - - - 22¢ per gal
Electric Power

24.

Would start on project soon as approval.
(First) Preparing Camp and Housing conditions for Labor
Initial work in preparation for mine development will include short road to mine openings.
Installation of pump in creek bed with pipe line for pumping water short distance to mine workings.
Surface clearing for mining equipment installed.
Surface excavation for Tunnel Site to be driven in ore body.
Preparing for Continuing surface shaft in ore body.

This preliminary work will take around 30 days to complete.

Cost:
For hiring Bulldozer- - - - - - - - - - - - - - - -$150.00
For Camp and Housing Conditions - - - - - - - - - 200.00
Installation of Pump and Pipe Line- - - - - - - - 400.00
Tools-Saws-Hammers-Pick-Shovels-Incidentals - - - 200.00
Labor - 800.00

84

(End) After completion of the preliminary work purchase and installation of

Air Compressor - Drilling Equipment estimate - - - - - - - -	$1000.00 $1900.
Blasting powder caps -	400.00
Air Hoist (Vacuum) -	200.00
Lumber -	300.00
Vicory (Auto) -	000.00

(End) Tim

Start Mine Development
20 Linear Ft. Shaft
100 Linear Ft. Tunnel
40 Linear Ft. Stope

Estimate 90 days to complete

Labor Costs - - - - - - - 3000.00

(end) Milling

Construction-Purchase of Additional Equipment and Installation to estimate capacity for extracting capacity of not less than 1 ton milling ore per hour

Estimate time to complete about 60 days

Total Cost - - - - - - - 2300.00

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-696X

Date received 6/25/51

Addendum to MF-100

D.O. Whitt
Dunlap, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LANDON F. STROBEL
Executive Secretary

Date June 15/51

Name and address of applicant

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production .....

   If not in production or operation, estimated date when production will begin Within 5 mo after starting project
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

General Technical Data

1.
   (a) Tungsten (Scheelite)
   (b) None at Present

2. Dixie Ridge Mining Claim

(Lode) - a tactite layer in place about 75' dip deep.

Surface development.
   (a) Shaft 24 linear feet
   (b) Cross Cuts 10 feet
   (c) Tunnel site started
   (d) Surfac open cuts 20 feet length - width 7 feet depth 20 feet
   productive capacity not known at present.
   Tactite layer varies in thickness from over 3 feet to 7 feet along about 130 linear feet in surface strike, so far determined to 50 feet depth below uppermost outcrop with ore in place continuing on in depth.
   Workings not flooded - No indications.

3.
   (a) 1 mile in westerly direction from small village of Dunlap
   18 miles in Easterly direction from nearest shipping point (Orange Cove)

   (b) Mill Creek Mining District
   Section (3) Tws. 14 S Range 26 E
   County of Fresno, Calif.

4.
   (a) Not in operation other than limited development by owner

   (b) Owner

5.
   Has never been in production.
   Believed could be in production of tungsten concentrates less than ~~4~~ 6 months after starting project.

6. Applicant has had several years experience in hard rock mining, being envolved in actual mine operation and business experience.

7.
   (a) No previous exploration project other than Limited Surface development by owner and not having sufficient equipment to properly develop.

   (b) Nearest property with production of tungsten situated in about five miles in southerly direction in same tungsten belt. Mine was worked during second world war.

   Exact production not known other than involved in a suit for extention of lease was brought out over $10000.00 had been paid out in Royalties ranging from 10% to 17%

(c) At different occasions an engineer and geologist went over property in question briefly, and seemed to be in accord surface conditions seemed tobe favorable for further development.

Assays made in surface workings have been less than 5 to around 3% WO_3.
Concentrates have been pronounced as very good quality.
Known as a tactite layer arranged in a schist lime and granite layer, varying in thickness from around 3 feet to 7 feet with about 75° dip. Exposed by surface workings along 130 linear ft. strike so far determined to 50 ft depth below upper most outcrop, with conservative estimate of 1200 ton in place.

There is also a parallel tactite layer about 60 feet distance, carrying scheelite which may or may not have connection undeveloped. 4 ft. thickness.

12 Ahswered in No. 7.

13. Located 18 miles in easterly direction from nearest shipping point, small town Orange Cove.

Supplies can be obtained from this point - also City of Fresno, with small General store at Dunlap- 1 mile in easterly direction.

Surfaced highway comes within less than one half mile from property.

Dirt road passable leading off highway to property.

14. Available water in nearby Creek. Heads twenty miles above in highest mountains. More than sufficient quantity through natural continuous flow about 9 months.
There will be sufficient water for operations for all seasons of year.

15. Contemplate 30 to 40 H. P.

Recent Electric power line brought in 1/2 mile to immediately near mine workings as yet not connected up.

16. Contemplate
Miner 1
Mucker 2
Mill Men 1
Foreman 1

17. Ore car (1) - Rail track (12) Lb. 600 feet (Good Condition)
Tools -picks-Shovels - 200 feet pipe - 3/4" to 1½".
House - 3 Room (Fair condition) tungsten Lamp
Available Major Equipment can be used includes - 8 x 10 inch Rock Crusher
Ore Feeder, (Line Shaft), (Pulleys)(Cnetrifugal Pump 1 hp.)
500 Gal Galvinazed tank. (25 H. P. Distilate engine.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

D.O. Whitt
(Name of company)

By L.D. Whitt
(Signature of authorized official)

June 15/51
(Date)

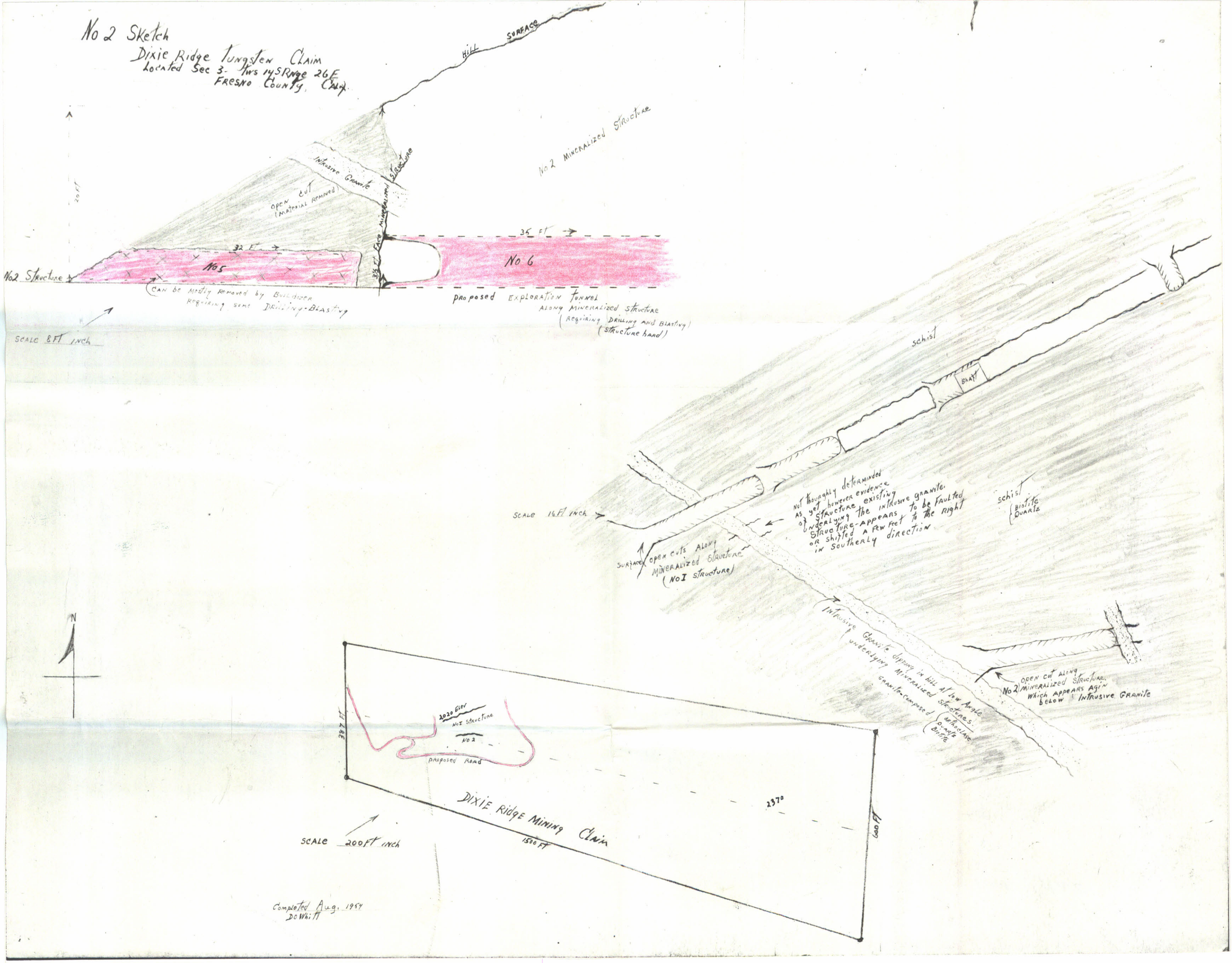
owner
(Title)

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—63792-1

No 2 Sketch

Dixie Ridge Tungsten Claim
Located Sec 3- Twp 14S Range 26E
Fresno County, Calif.

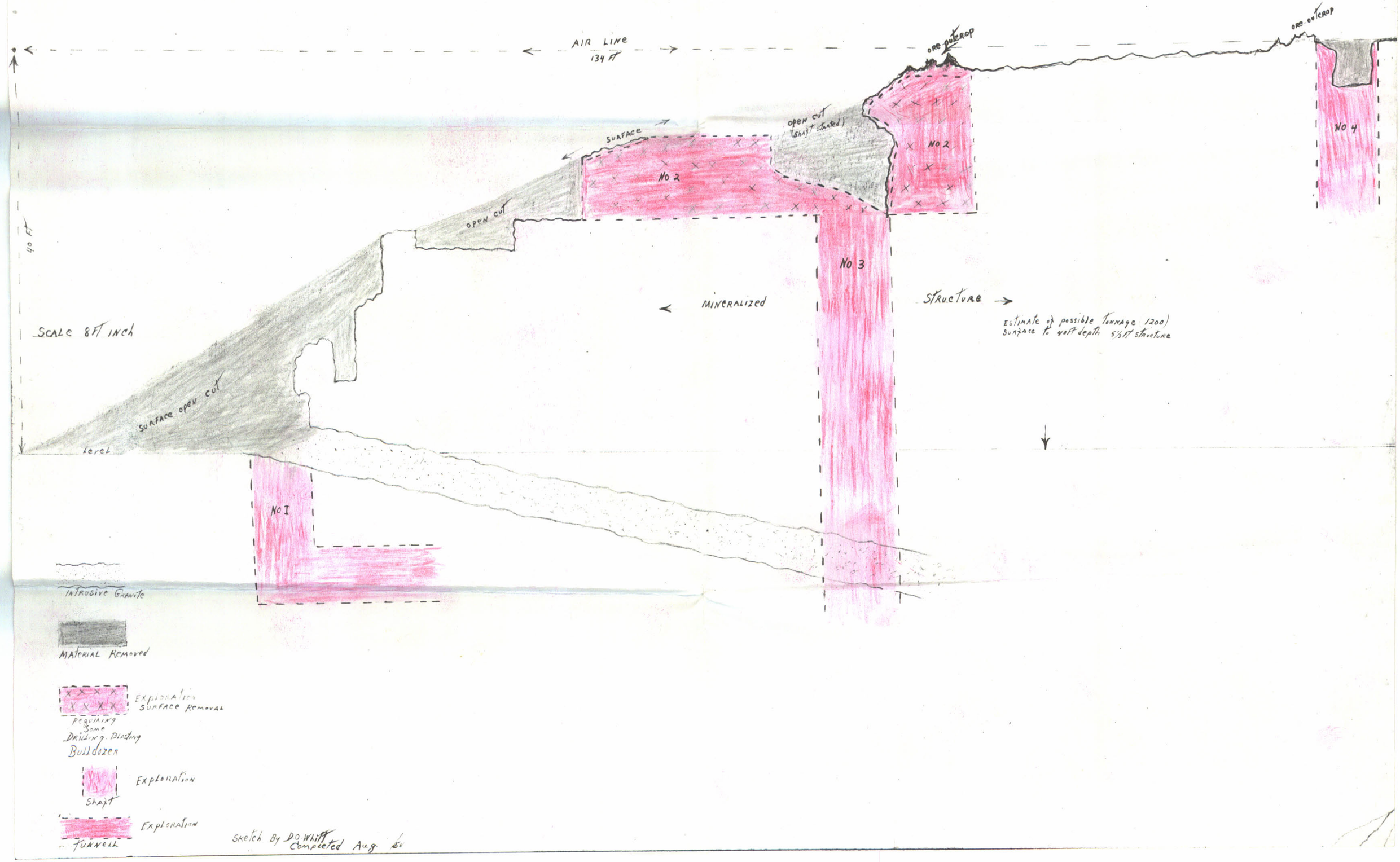


Completed Aug. 1954
D.O. Whitt

NO I Sketch

Dixie Ridge Tungsten Property

Located (2000 ft elev.) Sec 3 Thrs 14 S Range 26 E, Fresno County, Calif.



Sketch By D.O. Whiff Completed Aug. 80