DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 696-x

DO NOT DETACH THIS SLIP

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

This document has been recorded as

Duke O. Whitt - Exploration

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

Routing Slip

To:	Tungsten Br.	Date	
To:	Case Com.	Date	8/22/51
To:	~~Reports & Records~~	Date	AUG 23 1951
To:	P.E. Div.	Date	11/21/51
To:	Hook	Date	12/4/51
To:	Gulson	Date	12/4/51
To:	Lemmon	Date	12/5-51
To:	Oper Com	Date	10-11-54
To:		Date	
To:		Date	
To:		Date	
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CONTROLLED DOCUMENT

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
Executive Officer
DMEA Field Team, Region III

Enclosures

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

FILE COPY
SURNAME:

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

Gentry
Selfridge
Geehan
Lowry
Hayes
Johnson
Lemmon

FEB 19 1952

S.P.

Mr. Duke O. Whitt
Dunlap,
California

Re: Docket No. DMA 696X - Tungsten
Dixie 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 (for) S.N. 2-19-52

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

FILE COPY
Surname:

Geehan
Ridgway

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

RWGeehan:elk

cc: Mr. Geehan
Ferrous M&A
Mr. Katlin
Files
Mr. Selfridge

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

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 one 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 loan.

8. The Commodity Division recommended denial.

G. C. Selfridge

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

Docket 400

FILE COPY
SURNAME:

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

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 one 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 loan.

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

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

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

Office of
Executive Officer
DMEA Field Team
Region III

January 28, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMA-696X - Tungsten - Dixie Ridge Mining Claim, Fresno County, California.

Reference is made to your subject letter dated January 25, requesting advice as to the progress of the investigation of subject property which was requested by your office on August 23, 1951.

The property was examined in October, and on November 6, I addressed a memorandum to Mr. Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration, Washington, D. C., subject: Docket DMA-696X - Tungsten - Duke O. Whitt, Fresno County, California, to which were attached four copies of a report, "DMA-696X, Whitt Tungsten Property, Fresno County, California", by Russell R. Trengove, mining engineer, U. S. Bureau of Mines, dated October 18, 1951.

The docket was returned at the same time.

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

Copy to E. H. Bailey, USGS

Field Report is to come from Mt Weather
via - Hedges - 2/6 -

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
FEB 4 8 07 AM '52

FILE COPY
SURNAME:

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

Gentry
Selfridge
Miller

JAN 25 1952

Mr. H. 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

J.N. 1-25-52

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:lm
1/24/52

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

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

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

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

Office of
Executive Officer
DMA Field Team
Region III

November 6, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Docket DMA-696X - Tungsten - Duke O. Whitt, Fresno County, California

Reference is made to your subject "Review of Application for Exploration Assistance", dated August 29.

Attached are four copies of a report, "DMA-696X, Whitt Tungsten Property, Fresno County, California", by Russell R. Trengove, mining engineer, U. S. Bureau of Mines, dated October 18, 1951.

According to the examining engineer, the deposit occurs in two nearly verticle tactite zones, known as the Dixie Queen and the Dixie Ridge. 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.

The Dixie Ridge zone, bearing E-W 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 long.

The ore showings on the property are not impressive. Although some additional tungsten might be indicated by further trenching, the engineer does not believe that an exploration project is warranted on the property.

Docket and correspondence relating to it are returned herewith.

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

Attachment

Copy to: E. H. Bailey, USGS

DMA Docket Files 340

FILE COPY
SURNAME:

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

Holderer
Ballard
Lyon
Thayer
Boggs
Moon

AUG 23 1951

Q.E.C.

Mr. Duke O. Whitt
Dunlap
Fresno County
California

In reply please refer to
DMA 696X Tungsten

Dear Mr. Whitt:

Your application has been referred to Mr. H. C. Miller, Executive Officer, DMA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco, California, for a field examination.

Mr. Miller's engineers will no doubt contact you as soon as they can arrange for the examination.

Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

J.F. 8/23

TJBallard:bl 8/14/51

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Field Team - Region III
Coordinating Committee
Files

August 10, 1951

Memorandum

To: Tungsten Branch, DMA

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

Subject: Exploration application of Duke O. Whitt Dunlap California

DMA 696 X -- Tungsten

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 $3,000 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

Dwight M. Lemmon

Sent copy to field 8/13/51

Dunlap, Calif
Aug 1/51

United States Dept of the Interior
Defense Minerals Administration
Mr. George Holder. Chief
Washington D.C.

Subject DMA-696X
TUNGSTEN - EXPLORATION

Dear Mr. Holder.

Just in response to letter July 2/51 by Mr. Landon F. Strobell Secretary, stating my applacation of June 15/51 for an exploration loan, and assigned Docket Number DMA-696X had been referred to you.

Just wish to say I'm still much interested in the application. And feel rather certain with the assistance can produce an appreciable amount of tungsten concentrates and could get into production within a reasonable short period.

In closeing thanking you. I remain

Sincerely yours,
Luke O. Whitt

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

Mr. H. C. Miller, Exec. Officer
DMA Field Team
1012 Flood Bldg.
870 Mkt. St.
San Francisco 2, California

AUG 23 1951

Dear Sir:

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

Docket No. 696-X

Commodity Tungsten

Applicant Duke O. Hitt

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

Very truly yours,

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

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.

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.

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 1½ 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 green tactite zone, and 50 feet south of the Dixie Ridge.

ORE RESERVE

Dixie Queen:

Assuming that the 10-inch thick scheelite-bearing tactite extends 25 feet east and west from Sample 2 at Station 0+-5? 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 warranted.

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.

Answers to questions in Review of Application for Exploration Assistance.

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

5. 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 Gregory Hill gold Mine near Boneta, 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 30 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 summer 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.

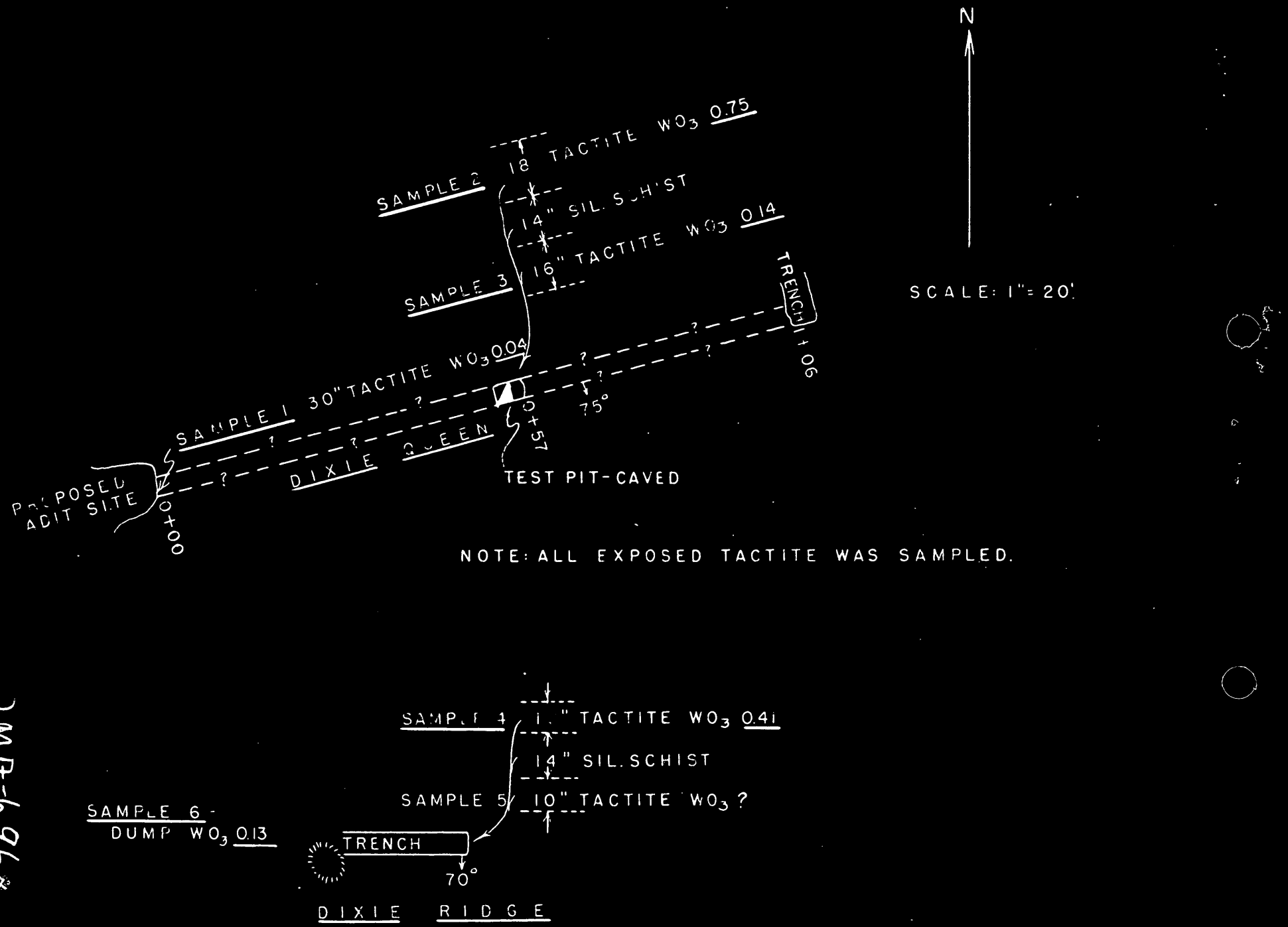

FIG. I. WHITT TUNGSTEN PROPERTY, FRESNO COUNTY, CALIF.

JMH-696

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 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 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 0.13% 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 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 warranted.

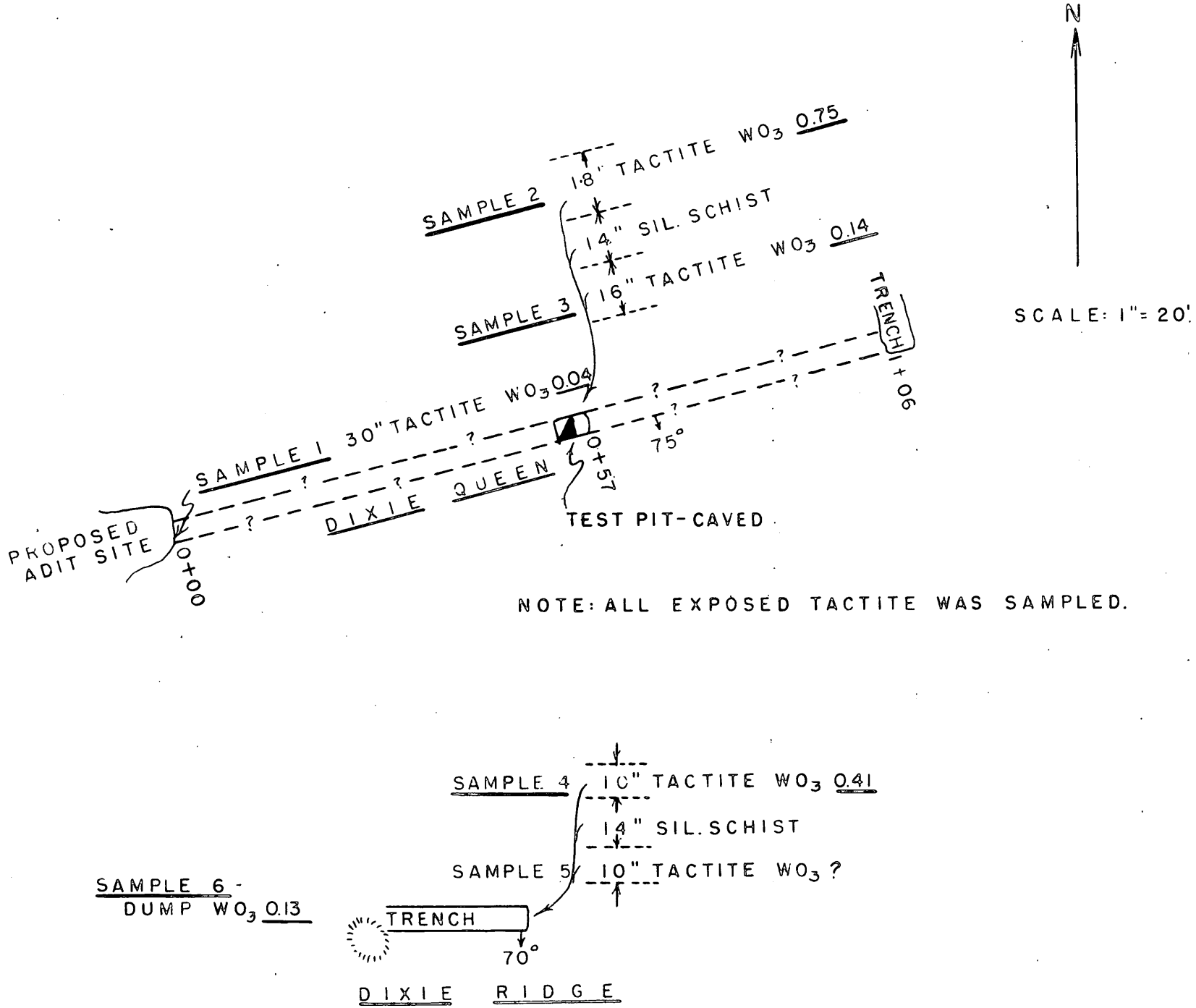

FIG. 1. WHITT TUNGSTEN PROPERTY, FRESNO COUNTY, CA...F.

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: 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.

8/11/51

List of File to Field Team
DMA 696X Tungsten
Duke Whitt, Dunlap, California

1 - MF 103 with attached answers
1 - MF 100 with attached answers
1 - Penciled sketch
1 - Letter Whitt to Holderer 8/1/51
1 - Copy letter Bradley to Whitt 5/14/51
1 - Referral sheet
1 - 8 pages information and sketches 1/15/51
1 - Copy Lemmon Memo

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

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
AUG 27 1951
SAN FRANCISCO, CALIFORNIA

AUG 23 1951

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

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Coordinating Committee

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

Lowell B. Moon
For Bureau of Mines

Leo G. Rose
For Geological Survey

6/5/51

8/4/51

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. 14S Range 26E, 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 %. The reserve of ore estimated by owner at 1,500 tons. Content WO_3 not known because of insufficient sampling.

Reviewed by: J. M. Mallard
Fred B. Holden
Dwight M. Lemmon

Date 8/11/51

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

List of File to Field Team
DMA 696X Tungsten
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FILE COPY
SURNAME:

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

July 2, 1951

Mr. Duke O. Whitt
Dunlap
California

Subject: DMA-696X
Re: Exploration Loan

My dear Mr. Whitt:

Receipt is acknowledged of your application and attachments of June 15, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-696X and referred to Mr. George Holderer, Chief, Tungsten Branch on June 26, 1951.

In any future correspondence relating to your application, kindly refer to DMA-696X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
✓ File
Holderer
Lyon

DMA 696

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
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

D.O. Whitt
Dunlap, Cal.

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

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 Tungsten

Percentage of Government participation 75%

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

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. J. 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

EXA-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 claim in 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 Dunley. Nearest railroad shipping point at Orange Cove, about 15 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. Installed engine power.

A recent electric power line has been brought to the immediately [illegible] property, however, not connected yet.

Estimate: [illegible]

14. [illegible] (1) - Hall [illegible] 2[illegible] ft. - [illegible] 3/4" to 1½" - [illegible] ft-drill-tools - pipe - shovels - [illegible] lamp - [illegible]

Drilling & Core Crew

[illegible] available drilling equipment not on property, [illegible] that equipment would be [illegible] varied to a condition unusable for recovery of [illegible] dollars.

15. With the installation of additional drilling equipment, all drilling crew [illegible] be [illegible] to [illegible] property.

16. (a) [illegible] exploration. All surface development has been done by owner.

16. (b) [illegible] with [illegible] rec. [illegible] about 5 miles [illegible] at [illegible] Valley has been rather heavy producer, [illegible] [illegible] involved in [illegible] [illegible] [illegible] 1[illegible] to 17 [illegible] [illegible] [illegible] after.

16. (c) [illegible] on [illegible] and [illegible] crew [illegible] priority.

[illegible] although comparatively small [illegible] of [illegible] [illegible] to be in [illegible], appeared favorable for further development as a [illegible] surface shaft, driving [illegible] on vein, with view [illegible] development.

[illegible] of the [illegible] [illegible] in [illegible], [illegible] be [illegible] of use [illegible] of drilling crew, while [illegible] development.

17. Production

[illegible] yet.

18. Grades [illegible] (i.e. 0)

[illegible]

19.

20.

Junction (Lacolite)

Lactite layer

21. [illegible] - [illegible] to [illegible]
[illegible] [illegible] a [illegible] [illegible] 25 linear ft.
[illegible] [illegible] tunnel [illegible]
[illegible] [illegible] deposit around 100 linear feet
[illegible] about 47 linear ft. - [illegible] [illegible] 25 feet.

[illegible] [illegible], [illegible] [illegible] [illegible], believe
all [illegible] [illegible] [illegible] [illegible] less than five months,
and is [illegible] [illegible] [illegible], [illegible] [illegible] [illegible].

22. Believe [illegible] [illegible] for [illegible] [illegible]
[illegible] is situated in an [illegible] [illegible] [illegible] [illegible]
[illegible] well.

[illegible] trolite layer [illegible] 3 ft. to 7 ft. [illegible] [illegible] [illegible] [illegible] about
75° dip. [illegible] [illegible] [illegible] well [illegible] definite [illegible]
[illegible] [illegible] 150 linear feet to 60 ft. [illegible] [illegible], [illegible]
determined [illegible] structure continuity.

Copolite [illegible] appears consistent and through [illegible] structure
from shaft to well, however at some points also strike [illegible] [illegible]
rich, other [illegible] [illegible] [illegible] [illegible].

23. [illegible]

					Total per day
(a)					
[illegible]	1	(1.75) per hr.	(7) hr	(10.25)	(17.25)
[illegible]	2	1.00 " "	(8) "	8.00	16.00
[illegible]	1	1.75	(8) "	14.00	14.00
(b)					
[illegible]	1	1.75	(8) "	14.00	14.00
					62.25

100 linear ft. [illegible] [illegible] - total labor (300.00)

(c)

Repairs - [illegible] [illegible] 200.00

(d)

Construction [illegible] [illegible]

[illegible] - 200.00
[illegible] - (75.00)
[illegible] - 125.00

Mining Equipment

(c)

Blasting Power - [illegible] - - - - - - - - - - - - - - - - - 400.00
Pump - Pipe Fittings - - - - - - - - - - - - - - - - - 400.00
Air Compressor (over 100) cu. ft. - - - - - - - - - - - 1000.00
Air [illegible] - 400.00
Column Mounting - Steel [illegible] - - - - - - - - - - - - [illegible]
Air Hoist (small size) - Cable - - - - - - - - - - - [illegible]
Pick up [illegible] - - - - - - - - - - - - - - - - [illegible].00
[illegible] - [illegible]

Milling Equipment

[illegible] - [illegible]
Ball Mill - [illegible]
Electric Motor (40 H.P.) - - - - - - - - - - - - - - [illegible]
[illegible] - [illegible]
Concentrating Table - - - - - - - - - - - - - - - - - [illegible]

(2) Labor (40.00 per month) - - - - - - - - - - - - - - 200.00

(e) No Charge - 00.00

(d) [illegible] - [illegible] - [illegible] [illegible]
[illegible] - [illegible] - Incidentals - - - - - - - - - 175.00

Cost
(f) Labor - - - - - - - - No cost
Gasoline - - - - - - - .22 per gal
Electric Power

2.

[illegible] start of project [illegible] approval.
(First) Repairing Camp and Housing conditions for labor
Initial work is proposed so that mine development will enable
start toward mine operations.
Installation of pump in creek and with pipe line for pumping water
short distance to mine workings.
Surface electric [illegible] equipment installed.
Surface excavation for tunnel site to be driven in ore body.
Preparing for constructing surface shaft in ore body.

This preliminary work will take around 60 days to complete.

Costs:

For Mining Buildings - - - - - - - - - - - - - - - - [illegible]
For Camp and Housing Conditions - - - - - - - - - - - [illegible]
Installation of Pump and Pipe Line - - - - - - - - - 400.00
Tools-Hammers-Drills-Picks-Shovels-Incidentals - - - - 200.00
Labor - 500.00

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

Air Compressor - Drilling Equipment estimate - - - - - - -	$1900.00
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-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

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

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

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) Twp. 14 S Range 28 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 ~~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 130 linear ft. strike so far determined to 50 ft depth below upper most outcrop, with conservative estimate of 1000 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 point - also City of Fresno, with small General store at Dunlap- 1 mile in westerly 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. Made 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 Man 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 Equip ent 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. Distillate 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 D. O. Whitt
(Signature of authorized official)

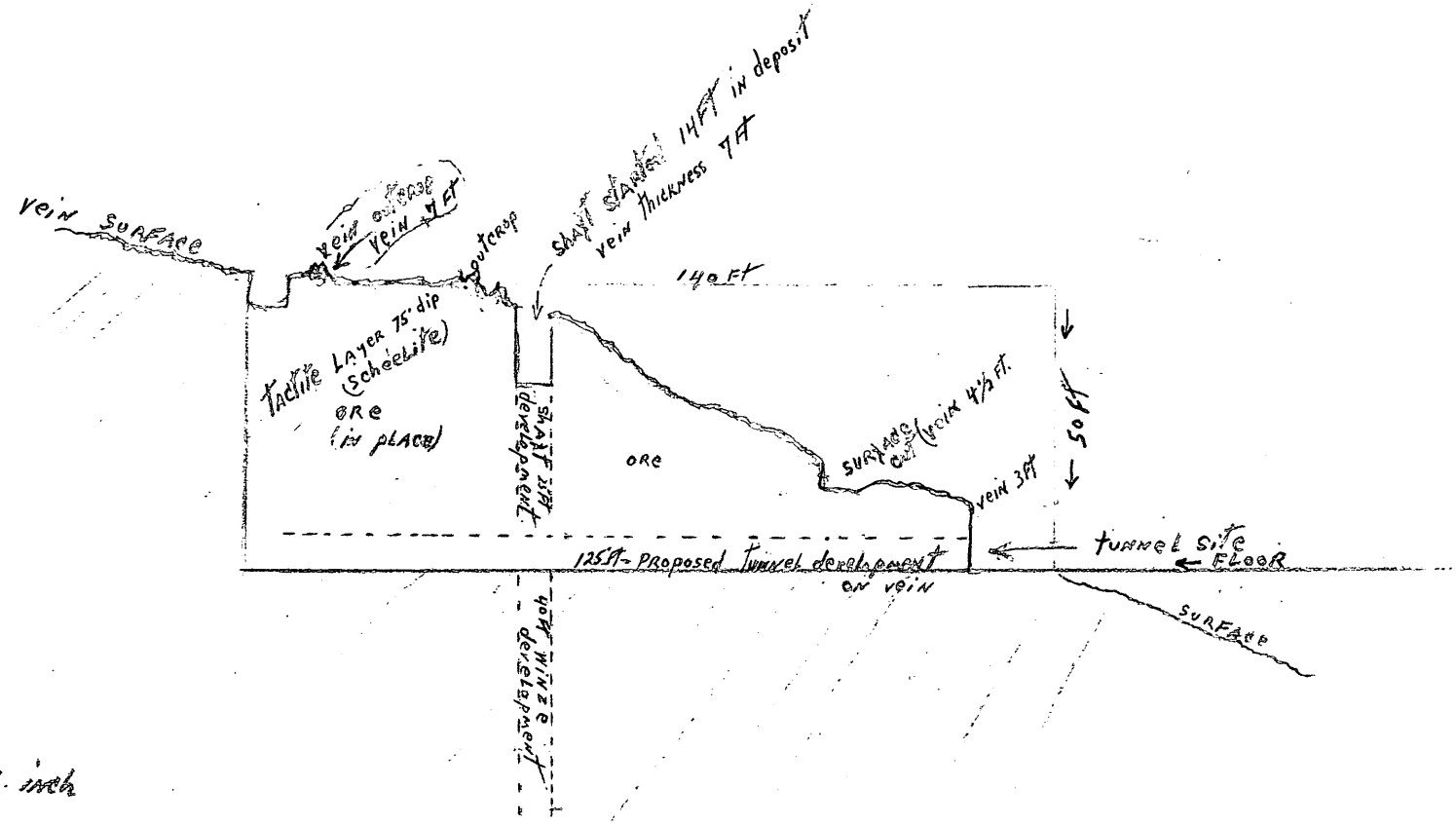
June 15/51
(Date)

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

DMA-696 X



Scale Approx. 32' - inch

June 10, 51
D.O. Whitt

DMA-696

DRAFT

3/14/51

Memorandum

To: P. R. Bradley Jr.

From: D M Lemmon

Subject: DMA-696 Tungsten

A. Duke O. Whitt, Dunlap, Fresno County, California

B. Property: Dixie Ridge Mining Claim
Sec. 3, T. 14 S., R. 26 E. Dinuba quadrangle,
Fresno County, California. One mile west from Dunlap.

C. Conclusion:

1. Technical feasibility. Insufficient information about grade of ore and applicability of proposed milling process. No ore blocked out.

2. No information about competence of applicant.

3. Wants government loan, 100 percent, no collateral, and requests less than the amount necessary for the project.

D. Recommendations

Write the applicant about possibility of an exploration loan, and explain to him that loans for undeveloped properties are to be made only on a participation basis. (Letter attached for signature of Director, Supply Division.) — not prepared.

E. Proposal: Applicant requests loan of $10,000 to provide mining and milling equipment to produce scheelite concentrate from an undeveloped tactite layer.

F.

DMA-696

G. Technical feasibility

1. Scheelite in 2 steep layers of tactite 60 feet apart. One layer is 140 ft. long and 3 to 8 ft. wide, and the other is 20 feet long, width not stated. Content of WO_3 estimated by owner at 0.5 to 3.0 percent, by U. S. Geological Survey (1943) at 0.2 percent. Reserve of indicated ore estimated by owner at 1,500 tons (a reasonable figure). Content of WO_3 not known because of insufficient sampling.
2. No information about rate of production.
3. No information about mining method and costs.
4. Expects to convert an old gold mill, situated nearby, by addition of ball mill and rolls. No flow sheet given. No milling costs.
5. Marketing. Applicant states that a pure concentrate meeting specifications can be produced. No supporting data, such as mill tests and analysis of concentrates showing WO_3, Mo, Bi, and S.

H. Availability of Project requirements.

1. No equipment on property.
2. Requires mining equipment (air compressor, drills, steel, supplies) and milling equipment (ball mill, rolls, classifier, electric motor) to convert old gold mill nearby to tungsten concentrator.
3. Located near highway.
4. Needs 5 men.
5. Electric power available on property.

I. Financing

Government loan of $10,000 to be repaid in 4 or 5 years. No collateral. Probably insufficient.

J. No information about competence of applicant.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
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

D.O. Whitt
Dunlap, Calif.

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

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 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

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. 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.

*Same as footnote on page 1.

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

The Applicant

2411-096

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 claim in 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 McCord County. Who is claim area is mountainous not surveyed - about 3000 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 5 Township 14, range 26 E, County of Fresno, California

11. Little Ridge Mining Claim.

12. Property is located about 43 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, to insure continuous mining operations.

Power available: 25 H. P. Distillate 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 usable 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. Lease revealed had paid out at that time around $10000.00 in royalties. 10% to 12% 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 [illegible] 100 (No. 7)
A.
B.
C.

19.

20.

Tungsten (Scheelite)

Tactite Layer

21. Short cost - easily built to mine workings
Continuing surface shaft around 25 linear ft.
Clearing for tunnel site
Driving tunnel on deposit around 100 linear feet
Since about 40 linear ft. - Surface shaft 25 feet.

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

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

The tactite layer over 3 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 consistent 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
	Checker	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 - 800.00
Milling- 600.00
Buildings- 230.00

Mining Equipment

(e)

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

Milling Equipment

Rolls - 350.00
Ball Mill - 300.00
Electric Motor (40 H. P.) - - - - - - - - - - - - - - - - 200.00
Belt - 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-Kingston Lamp Batteries
Gasoline - Oil - and Incidentals - - - - - - - - - - - - 175.00

Cost

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

36.

Could 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 electric 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 - - - - - - - - - - 250.00
Installation of Pump and Pipe Line - - - - - - - - 400.00
Tools-Saws-Hammers-Picks-Shovels-Incidentals - - - 250.00
Labor - 800.00

24

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

Air Compressor - Drilling Equipment estimate - - - - - - -	$1900.00 1900
Blasting powder caps -	400.00
Air Hoist (Hoyer) -	250.00
Lumber- -	200.00
Pickup (Auto) -	550.00

(3rd) Mine

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

Estimate 90 days to complete

Labor Cost- - - - - - - 3000.00

(4th) Milling

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

Estimate time to compl to about 30 days

Total Cost- - - - - - - 8000.00

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

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

Addendum to MF-100

D.O. Whitt
Dunlap Ariz.

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.

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   (*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 [illegible] 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' ~~deep~~ dip.

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~~ 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 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 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
Mucker	2
Mill Men	1
Foreman	1

17. Ore car (1) - Rail track (12) Lb. 600 feet (Good Condition)
Tools -vPicks-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)(Centrifugal 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 D 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.

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