To: Administrator, DMEA

From: Division of Iron and Ferro Alloys

Subject: Denial of Application of Mark II Mining Co., Inc.

Docket DMEA-4483 Tungsten

North Meadow Claims

Tulare County, California

The Docket might be discussed with any representative of the applicant, as follows:

1. Show the Application of September 20, 1956, including geologist and petroleum engineer's report of September 6, 1956, with assays of 3 selected samples and map (blue on white)
Note that cost was not estimated and could not be computed without footage for holes:

2. Show our acknowledgement of Oct. 3, 1956

3. State that on basis of new management and development work accomplished since two earlier denials, and in one case because of the reported tonnage and grade of stockpiled ore (which were both much exaggerated) the Survey and BM recommended new field exams.

4. Show our letter of October 16, 1956 to applicant

5. Show our "follow-up" letter of December 10, 1956 to applicant

6. Show applicant's preliminary reply of December 29, 1956 (rec'd 12/31/56)

7. Show applicant's reply of December 27, 1957 (rec'd 1/7/57)

Note that no settlement sheets have been submitted.

8. Show our letter of Jan 11, 1957, informing applicant that field exam. will be made.

9. State that field report of June 17, 1957, submitted for our consideration an exploration program of 1000 feet of diamond drilling planned in Conference and agreement with the applicant (p. 13).

10. Show applicant's letter to Ricker of May 4, 1957 sending bid from Continental Drilling Co. dated May 9, 1957

11. Possibly mention that in discussing F.T. report one of the commodity men (Survey) commented that sampling results lend little support to any part of the ore reserve estimate

12. Mention that this Division expressed detailed doubts about field report in letter of July 23, 1957 to Ricker

13. State that Collins telephoned on July 29 and was told that we were waiting for answers to our questions in item 12 above.

14. Mention FT wire of August 8 saying they would reexamine and sample

15. On September 9, 1957, we received Smith's memo of August 30, 1957. Hard to say what could be said about it

16. Note that commodity men's comments of September 12, and September 19, 1957, are faintly favorable.

17. State that Collins phoned September 26, 1957

18. Show our denial letter of September 27, 1957

19. Show letter of November 12, 1957, from Senator Neuberger's office

20. Show our reply of November 18, 1957

21. Show Collins' letter of Jan 17, 1958, to Sen. Saxton

22. Show Hardy's reply " " 24, 1958, to Collins

23. Show Collins' letter of Jan 14, 1958 to Sen. Neuberger and say that Martin said just the opposite of what Collins reported

24. Show Sen. Neuberger's letter to you of January 17, 1958

25. Show our letter of January 29, 1958, to Sen. Neuberger

26. Hard to know what to say about Ricker's memo of February 5, 1958, enclosing Smith's memo of August 7, 1957, which we had not previously seen.

27. Selfridge memo of Mar 4, 1958, has especially good comments.

28. Show our letter of March 14, 1958, to Sen. Neuberger.

29. Show Hardy's letter of " " " to Collins

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2673

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

EXPLORATION PROJECT

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

Copies to USBM, USGS, and Region III.

To:	Code 400, Rm. 3538	Date	8-26-52
To:	Op Com	Date	9-5-52
To:	Open Com	Date	12-19-52
To:	130	Date	7-22-57
To:	110	Date	7-22-57
To:	130	Date	1-29-58
To:	110	Date	1-29-58
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

Form 7
(12-56)

Box 37 DMEA 2673

OFFICIAL FILE COPY

Date	Surname	Code

March 4, 1958

MEMORANDUM

To: Administrator

From: George C. Selfridge, Special Assistant

Subject: Denial of Docket No. DMEA-4483 (Tungsten)
Mark II Mining Company, Inc.
North Meadow claims
Tulare County, California

The writer has carefully reviewed the subject docket and Dockets Nos. DMA-1844X and DMEA-2673, Pacific Star Mines, Inc., involving projects on the same property, and can only reiterate and concur in the justifications supporting the denials, especially that one in the subject docket dated September 17, 1957, which sets forth a rather lengthy summary of available data.

In the first place, relatively small tactite bodies occur in an area of small roof pendants, some of which are as small as 5 feet in diameter. Concentrations of scheelite occur in small lenses in the tactite, these possibly ranging to 2.5 feet in width and 15 to 25 feet in length. Thus, the over-all grade of the tactite is low, and from the data submitted it would appear that only a few thousand tons at most of possibly 0.5% "ore" might be mined from the property. At the present time and probably for some time to come, the limited tonnage of this grade of ore would not be economically minable.[1]

The first application--Pacific Star Mines, Inc., DMA-1844X--was denied August 24, 1951, without a field examination, based on a poorly prepared application which suggested a limited size of exposures, the maximum strike length being about 50 feet on the Meada No. 1 claim.

The second application--Pacific Star Mines, Inc., DMEA-2673--was denied on December 19, 1952, based on the information contained in a Field Team examination report. The report indicated that the small bodies of metamorphic rocks occurring in granodiorite formed a discontinuous band. Small bodies of tactite containing discontinuous showings of scheelite occurred in the metamorphic rock pendants. At the time of this examination, it was estimated that the largest of the outcrops contained about 6000 tons of tactite of which 10 per cent, or 600 tons, might average 0.5% WO_3. As the property is in the High Sierras

and is rather difficult of access, it cannot be worked during the winter.

A Field Team report by Reeves, Taylor and Warne, dated June 17, 1957, under the subject docket describes four areas of tactite ranging from 150 to 250 feet in length and averaging about 50 feet in width. The report presented a very optimistic reserve figure based on limited sampling as shown in the September 17, 1957, justification for denial in the subject docket. This fact is acknowledged by the Field Team in Mr. Ricker's memorandum of February 5, 1958, which states that the "Report by Reeves, Taylor and Warne was rather confusing as the inference on ore reserves was unrealistic based on data available."

The property was later examined by Mr. Roscoe Smith who reduced the reserves from 54,750 tons to 11,500. Ten thousand tons of this reserve is assigned to Area No. 1. Its grade, .71% WO_3, is based on a single grab sample taken at the time of the first examination. An 8.6 foot channel sample and a grab sample of coarse material at the same locality assayed 0.08 and 0.08 per cent WO_3, respectively.

Study of the subject docket suggests that possibly fluorescent calcite was not distinguished from scheelite, and/or sampling and assay procedures were not good. It is difficult to understand why one would cut a 2-foot channel across a scheelite band which assayed only 0.01% WO_3. It is believed that the limited diamond drilling would add little good information when a grab sample of a 50-ton ore stockpile at the mill assayed 0.02% WO_3. As a good part of the tactite can be mined by open pit, and thus furnish the best test possible, the only reason one would want to drill to depth would be to see whether higher grade material existed there. There is nothing in any of the dockets suggesting such a possibility.

George C. Selfridge

GCSelfridge/esf
3/4/58
cc: Dockets - DME[illegible]83
" 1844X
" 2673
Admr. R. File
Mr. Selfridge

1/ This 0.5% WO_3 grade is partly supported by sample No. GS-3 which assayed 0.51% WO_3 and is described in Roscoe Smith's memorandum of August 30, 1957. The sample was a grab sample taken from 75 tons of ore stockpiled at the mill. This came from a cut from which about 300 tons of material had been excavated.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Geo. C. Selfridge

DATE: 12-22-52 12/30/52

FROM : Max D. Crittenden Jr.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

SUBJECT: DMCA - 2673 Pacific Star (tungsten)
2734 Greentail "
2664 Aldo "

I concur in the F.T. recommendation of denial in these 3 dockets

Max D. Crittenden Jr.

FILE COPY
SURNAME:

Chapman
Martinson
Selfridge
Geehan
Hedges
Powell
Johnson

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

Mr. Harold W. Smith
Pacific Star Mines, Inc.
1140 Sierra Madre Blvd.
San Marino, California

DEC 19 1952

Re: Docket No. DMEA 2673 - Tungsten
North Meadow Nos. 1 and 2
and Meta Nos. 1 and 2 claims
Tulare County, California

Dear Mr. Smith:

Your application for exploration assistance on the above-noted project and other information available to us in Washington have been carefully reviewed.

This information, while showing some spotted occurrences of scheelite in relatively small tactite outcrops, indicates to us that the probability of opening up any ore bodies of a minable grade is not sufficiently promising to justify Government participation. 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,

G. O. Mittendorf (fw)

Administrator

Copy to: Admn. Read. File
Docket
Field Team, Reg. 3
G. C. Selfridge
T. L. Chapman
D. M. Lemmon, USGS
R. W. Geehan, USBM

12-19-52

TLChapman:ls 12/16/52

FILE COPY
SURNAME:

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

Administrator, D.M.E.A.

December 16, 1952

Chapman
Martin for
Selfridge
Duhan

Iron and Ferro-Alloy Division, D.M.E.A.

Denial of exploration project in the amount of $18,970.00
Docket No. DMEA 2673 - Tungsten
Pacific Star Mines, Inc.
Tulare County, California

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

(1) Small bodies of metamorphic rocks occur in the granodiorites. These metamorphic rocks form a discontinuous band. In parts of these tactites small scattered occurrences of scheelite are found.

(2) Very little work has been done on the property. Six or seven small pits have been dug in the areas showing scheelite.

(3) The largest of the tactite outcrops is indicated to contain about 6,000 tons and it is estimated that about 10 percent, or 600 tons, contains scheelite which will average 0.5 percent WO_3.

(4) The property is located in the high sierras and is rather difficult of access.

(5) The Field Team of Region IV recommends denial. The Commodity Division of the U. S. Geological Survey concurs with the recommendation.

/s/ W. S. Martin
for G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

TLChapman:ls 12/16/52

CC: Admn. Read.File
Docket
G. C. Selfridge
T. L. Chapman

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, D.M.E.A. DATE: December 16, 1952

FROM : Iron and Ferro-Alloy Division, D.M.E.A.

SUBJECT: Denial of exploration project in the amount of $18,970.00
Docket No. DMEA 2673 - Tungsten
Pacific Star Mines, Inc.
Tulare County, California

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(5) The Field Team of Region IV recommends denial. The Commodity Division of the U. S. Geological Survey concurs with the recommendation.

W S Martin
for G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

STANDARD FORM NO. 64

Docket

Office Memorandum • UNITED STATES GOVERNMENT

TO : Geo. C. Sefridge

DATE: 12-12-52

FROM : M. D. Crittenden Jr

SUBJECT: DMEA 2693 tungsten
2730 "

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

DEC 1 1952

Rejection sustained

O F Rush
Mar 1952
8 3968

Mar D Crittenden Jr

Docket

gcl 12/15/52

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

Office of
Executive Officer
DMEA Field Team
Region III

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 10 1952

December 8, 1952

Mr. Harold W. Smith
American Liquid Gas Corporation
1109 Santa Fe Avenue
Los Angeles 21, California

Re: Docket DMEA-2673 (Tungsten)
Pacific Star Mines, Inc.
Harold W. Smith
San Marino, California

Dear Mr. Smith:

We acknowledge receipt of your letter of December 3, requesting information as to the status of your loan application.

Copies of the Irwin-Robertson report on the Pacific Star Mines, dated November 25, 1952, were sent to the Washington Office of the Defense Minerals Exploration Administration on December 4.

You should hear shortly and directly from Washington regarding the application.

Sincerely yours,

H. C. MILLER

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

Copy to: DMEA, Interior Bldg., Washington, D. C.
E. H. Bailey, USGS

Docket

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

Office of
Executive Officer
DMEA Field Team
Region III

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

December 4, 1952

Routing slip marked "Lack of tonnage" by GCS?

Memorandum

To: Ernest Wm. Ellis, Acting Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2673 (Tungsten), Pacific Star Mines, Inc., Harold W. Smith, 1140 Sierra Madre Boulevard, San Marino, California

Reference is made to your "Review of Application for Exploration Assistance," dated September 5, 1952, requesting a field examination of the subject property. This property was originally examined by Benjamin H. Sheahan of the Bureau of Mines in August 1951 in connection with an application for a DMEA loan; and though he recommended that the applicant's request be denied, he suggested that a geologic examination be made as he felt that the applicant would not be satisfied with his conclusions.

Four copies of Mr. Sheahan's report, entitled DMEA-2673 (tungsten), Pacific Star Mines, Inc., Tulare County, California, dated October 8, 1952, are attached hereto.

Attached also are four copies of a report, entitled DMEA-2673 (Tungsten), Pacific Star Mines, Inc., Tulare County, California by W. P. Irwin and J. F. Robertson, Geologists of the U. S. Geological Survey, dated November 25, 1952. These geologists also recommend that the application for a loan be denied and they base their conclusions on the fact that only a few small areas of high grade tungsten ore are exposed in the deposits, but by far the greater quantity of exposed tactite is low grade or barren of scheelite.

The largest of the deposits consists of an estimated 6,000 tons of tactite, of which 600 tons could be handsorted to an average grade of 0.5 percent WO_3. The deposits show little promise of containing a sufficient tonnage of tungsten-bearing ore that could be proved by further exploration, according to the geologists' report.

Reviewed by
DMEA OPERATING COMMITTEE

12-12-52
(date)

Reviewed by DMEA Op. Com. 12-12-52

It is recommended, therefore, that the applicant's request for Government aid in further exploration be denied.

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

Attachments

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno, Nevada (with copy of report of November 25, 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2673 (tungsten), Pacific Star Mines, Inc.

Tulare County, California

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

October 8, 1952

Reviewed by
DMEA OPERATING COMMITTEE

12-12-52
(date)

Docket No.: DMEA-2673 (tungsten) October 8, 1952

Name and address of applicant: Harold W. Smith, President,
Pacific Star Mines, Inc.,
1140 Sierra Madre Blvd.,
San Marino, Calif.

Name and location of property: North Meadow Nos. 1 and 2 and
Meta Nos. 1 and 2 claims
T. 22 S., R. 33 E.
Sequoia National Forest
Tulare County, California

SUMMARY

Pursuant to a request for an access road, four unpatented mining claims of the Pacific Star Mines, Inc., were examined on August 15 and 16, 1951. An $80,000 exploration loan had been applied for by the corporation. Docket DMA-1844X had not been received from Washington, though the president of the corporation, Mr. Harold W. Smith, outlined the proposed work while accompanying the engineer[1] on the examination of the property.

Relatively small tactite bodies occur as pendants in the Sierra Nevada granite batholith. Only portions of the tactite pendants are mineralized with scheelite. The distance between tactite bodies varies from 400 feet to 1,500 feet between outcrops; while the largest pendant measured 18 feet in width and 75 feet in length but contained very little scheelite.

On August 25, 1952 the company filed a new request for an exploration loan in the amount of $18,970. The applicant did not adequately describe the proposed exploration work. Docket No. DMEA 2673 was assigned to this exploration loan application.

1/ Benjamin H. Sheahan, Mining Engineer, Bureau of Mines, Region III.

CONCLUSIONS

1. The pendants of tactite are small.

2. Reserves of scheelite-bearing tactite on the best surface exposure in the group of claims at the Meta #1 was estimated to contain 50 tons of inferred tactite containing 0.80% WO_3 projected to a 10 foot depth.

3. The proposed exploration work would cut the formation 50 feet below this surface outcrop and could not expose a sufficient tonnage of scheelite bearing tactite to justify the requested exploration loan.

RECOMMENDATIONS

It is recommended that the exploration loan be denied.

TIME SPENT ON PROPERTY

The Pacific Star Mines, Inc., property was examined by an engineer[2/] of the Bureau of Mines on August 15 and 16, 1951. Mr. Harold W. Smith, President and Dr. W. W. Woods, secretary, met the engineer at Inyokern and accompanied him on the trip from there to the property. Dr. Woods had made arrangements for Mr. S. D. Crotsenberg, vice president to meet the party at the Kern River highway, 27 miles north of Isabella and to provide transportation by jeep over the Sherman Peak Mines Co. private road for a distance of 6.2 miles (see figs. 1-a and 1-b). Arrangements had likewise been made to provide saddle horses at Horse Ridge Trail. The trip was continued for a distance of 2.7 miles by horseback to Pacific Star Mine's temporary camp on North Meadow Creek (fig. 1-c). Mr. Harold W. Smith, Mr. Smith's son and Mr. S. D. Crotsenberg accompanied the engineer to the mining claims.

2/ Benjamin H. Sheahan.

NAME AND LOCATION OF PROPERTY

The Pacific Star Mine, Inc. property includes four unpatented mining claims; the North Meadow #1, North Meadow #2, Meta #1 and Meta #2 (fig. 1c).

The claims are located about three fourths of a mile southwest of Sherman Peak in secs. 15, 16, 21, and 22, T. 22 S., R. 33 E., M.D.B.&M. This property is in the Sequoia National Forest in the eastern part of Tulare County, Calif. The highway on the Kern River is at an elevation of 3,770 feet. The home and mill of S. D. Crotsenberg is at an elevation of 4200 feet and is located two miles to the east of the highway by way of a steep winding dirt road. Pacific Star Mines Inc. claims are at an elevation of 8,200 feet and 6.7 miles east of the Crotsenberg mill. The region is heavily timbered.

a. The distance to Isabella, the nearest town is 35.7 miles; 2.5 miles of trail, 6.2 miles of privately owned jeep toll road, and 27 miles of highway.

b. The property is situated in Tulare County, Calif., in the Sequoia National Forest (fig. 1-a) and in the Brush Creek Mining District.

CONDITION AND SEASONAL ACCESSIBILITY OF ROAD TO PROPERTY

Due to heavy snows during winter months, the operating season would be about six months or from April to September. The road from Isabella along the Kern River is practically an all weather road. From this point in to the property, the road would be passable only in dry weather. The Horse Ridge trail is very steep and is not accessible even with a jeep.

COMPETENCY OF APPLICANT AND OPERATING PERSONNEL

The applicants have had very little mining experience. The president of the corporation is also president of the American Liquid Gas Corporation. The vice president, Mr. Crotsenberg, has several years experience as a prospector. The secretary-treasurer is a medical doctor. There was no operating personnel, however, judging from the shape of the few shallow prospect pits that had been excavated, the workmen lacked mining experience. Three shallow 6-foot prospect pits were V-shaped in the bottom.

APPLICANT'S PROPERTY RIGHTS

All four of the claims are unpatented and were located in 1951. The claims were leased to Pacific Star Mines, Inc. for ten years according to information submitted by the applicant.

Location certificates are reported to be recorded at Tulare County seat as follows:

Claim	Date	Book	Page	Document No.
Meta #1	6/12/51	Vol. 1525	337	16957
Meta #2	"	Vol. 1529	339	16958
North Meadow #1	"	Vol. 1525	343	16960
North Meadow #2	"	Vol. 1525	345	16961

DESCRIPTION OF PROPERTY

a. Surface and surface facilities:

1 Tent 16 feet by 16 feet, at temporary camp on North Meadow Creek
1 Tent 8 feet by 8 feet, at temporary camp on North Meadow Creek
1 Stove, Coleman, gasoline
1 Rock drill and steel, Barco, gasoline on Meta #1 claim
1 Truck, 1½-ton, Ford, stake body, at S.D. Crotsenberg home
1 Truck, 1-ton, Dodge, panel body, 4-wheel drive
1 Rock crusher, U.S. Army portable type, 8- by 16-inch

None of the equipment was new; all equipment was serviceable.

b. There are no mine workings or underground facilities.

c. Very little work has been done on any of the claims. The outcrop on the Meta #1 claim has been trenched and two 6-foot pits have been excavated. Only location work has been done on the Meta #2 claim. A small test pit, 6 feet in depth, has been sunk on the south end of the tactite body on the North Meadow #2 claim, and some blasting and a little excavation work has been done on the tactite on the North Meadow #1 claim. Some assessment work was reported to have been done since the examination.

SAMPLING

(See fig. 1-c for locations)

Sample No.	Claim	Width/Feet	%, WO_3	Remarks
S-44	Meta #2	18	*0.01	*Less than
S-45	Meta #2	5	0.08	
S-46	Meta #1	5	0.51	
S-47	Meta #1	4	0.97	
S-48	North Meadow #2	specimen	7.30	(300 lbs.)
S-49	North Meadow #2	6	0.21	
S-50	North Meadow #1	8	0.57	
S-51	North Meadow #1	specimen	1.10	(1 ton)

GEOLOGY AND ORE RESERVES

Geology:

Outcrops of tactite occur in granite. These tactite bodies contain considerable garnet and in places are mineralized with the tungsten mineral scheelite. The largest tactite body observed is found on the Meta #2 claim and measured 75 feet in length and 18 feet in width. Other outcrops observed may be of equal or larger size but are partly covered with overburden. One small tactite body, 5 feet in diameter and located a few hundred feet southwest of the North Meadow #1 claim

and near Horse Ridge Trail was almost entirely encased in the granite. The better mineralized portions of the tactite were at the ends and edges of the pendants and near the granite contact.

Ore Reserves:

There has not been sufficient development work on the property to determine tonnage or grade of ore. Judging from outcrops examined with ultra-violet lamp and from analyses of samples taken from the outcrops and projecting this ore to a depth of 10 feet, the following tonnage of ore is inferred:

Claim	Tons Inferred ore	Grade %, WO_3
North Meadow #1	20	0.57
North Meadow #2	5	1.5
Meta #1	50	0.8
Meta #2	1	0.08

None of this grade of tungsten-bearing material is commercial ore because of inaccessibility of the region.

PAST OPERATIONS

Past work has consisted of prospecting and location work. There has been no production.

AVAILABILITY OF MANPOWER, ETC.

Skilled labor is scarce in this region of Tulare County.

Materials would all have to be hauled in to the property. Some native timber might be obtained on the property for mine use.

Water is available at North Meadow Creek (fig. 1c).

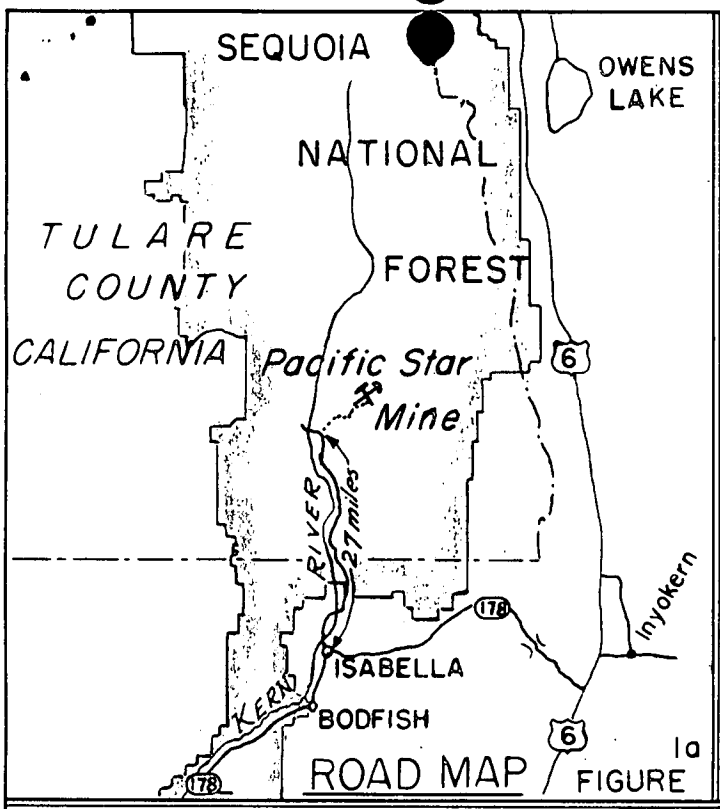
Gasoline was packed in to the property for use in the Barco drill.

STATEMENT OF APPLICANT'S PROPOSAL

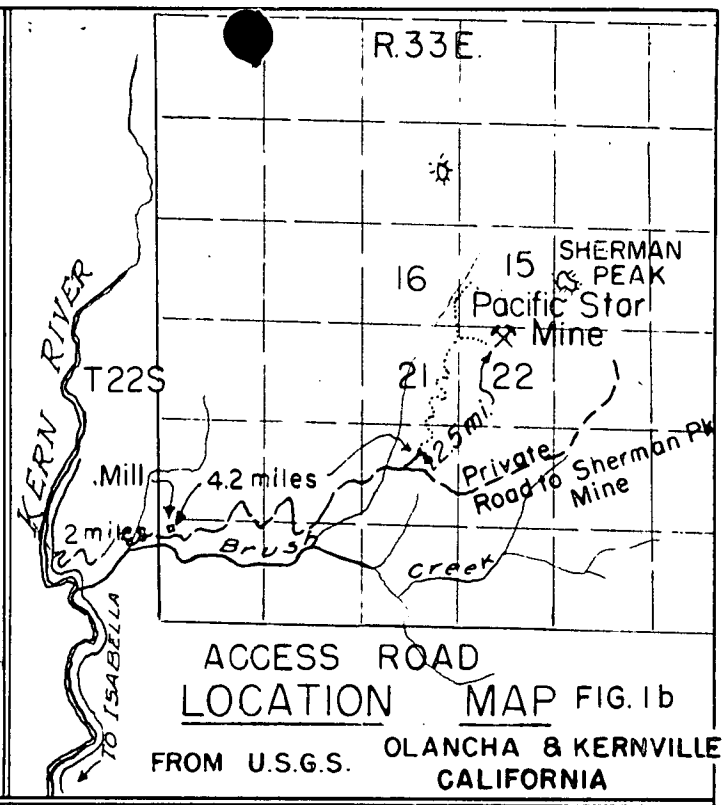
The new application, docket DMEA-2673, is a request for an exploration loan amounting to $18,970. The proposed work includes driving 200 feet of exploration work which would include a 100-foot adit with 50-foot crosscuts on each side of the face; and the construction of approximately three miles of access road. Camp facilities for the crew are outlined.

The exposure of tactite on the Meta #1 claim is the site of the proposed work. No detail topographic map was made of this area. The hillside is very steep and a 100-foot adit would have a back of about 50 feet at the face. Scheelite-bearing tactite that might be indicated from this proposed exploration work would amount to a very small tonnage and therefore the loan is not justified.

The cost estimates submitted by the applicant are too high.

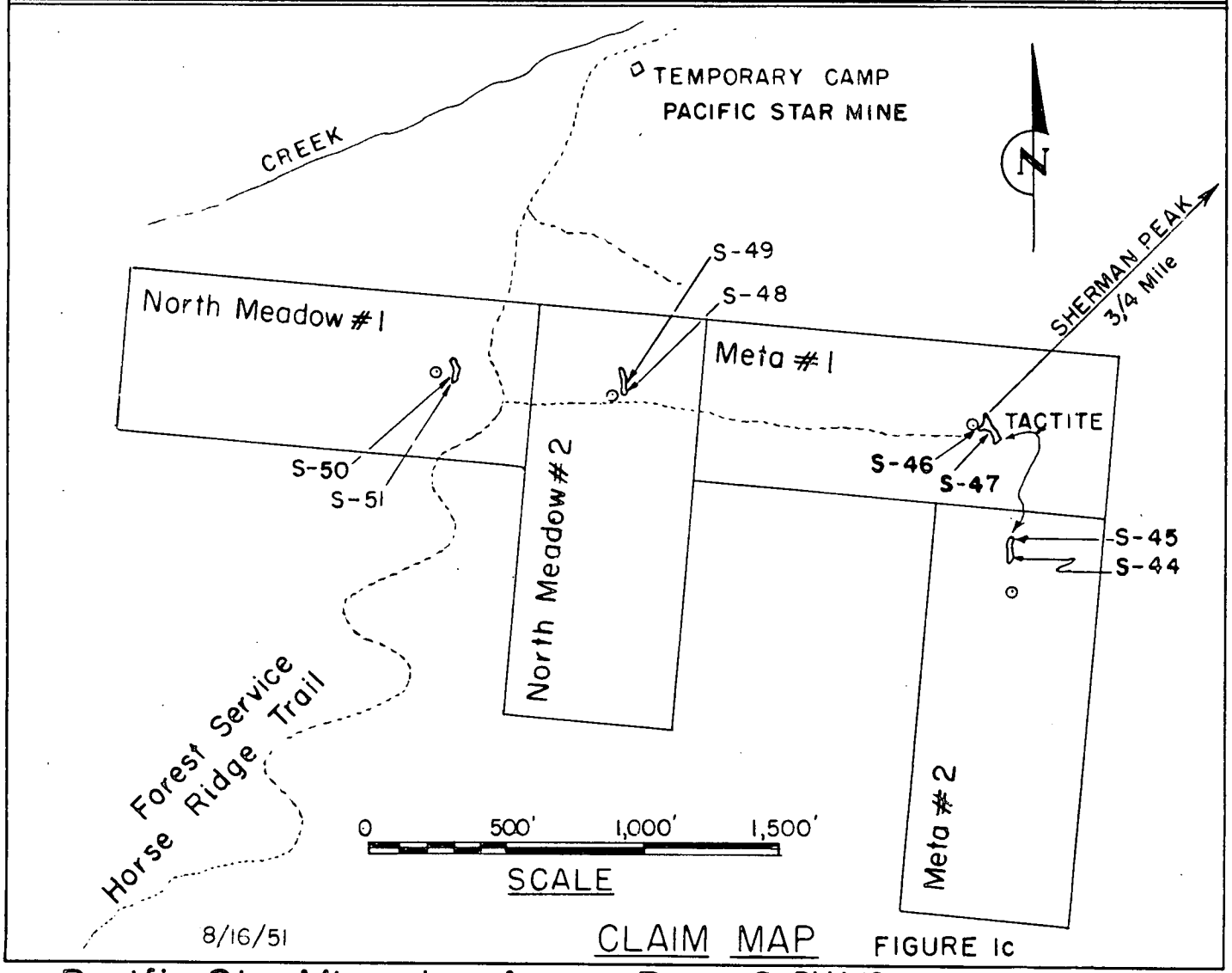


ROAD MAP FIGURE 1a



ACCESS ROAD LOCATION MAP FIG. 1b

FROM U.S.G.S. OLANCHA & KERNVILLE CALIFORNIA



CLAIM MAP FIGURE 1c

Pacific Star Mines, Inc., Access Road & DMA 18-4 X DMEA 2673 FIGURE 1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2673, Pacific Star Mines, Inc.

Tulare County, California (Tungsten)

W. P. Irwin, Geologist
J. F. Robertson, Geologist
U. S. Geological Survey

November 25, 1952

Introduction

The Pacific Star Mines Company property was examined on October 28, 1952 by W. P. Irwin and J. F. Robertson of the Geological Survey. Mr. S. D. Crotsenberg of the company, guided the party to three of the four claims concerned. The company submitted an application to DMEA for Government assistance in an $18,970.00 exploration program that involves driving a 100 foot crosscut with 50 feet of drift to each side of the crosscut. The application is not clear as to where the proposed work is to be done. Mr. Crotsenberg was poorly informed of the Company's plans, but believed that Meta No. 1 Claim is the location. Other members of the company who are more familiar with the exploration plans were not able to be present during the examination.

The Company has made little attempt by surface trenching to determine the potentialities of the three prospects examined. The prospects contain small showings of tungsten-bearing rock. Some of the tungsten-bearing rock is high-grade ore, but the average grade of the rock is low. The most promising of the prospects is estimated to contain only 300 units of WO_3. It is recommended that the applicant's request for Government aid be denied.

Location

The tungsten property is at an altitude of 8500 feet near Sherman Peak in the Southern Sierra Nevadas in sec. 22, T. 22 S., R. 33 E., Kernville Quadrangle, Kern County, California. The area is referred to as the Brushy Creek Mining District, and is 5 miles east of the Kern River within the Sequoia National Forest. The property is reached from the new earth-fill dam one mile below the town of Isabella (now abandoned) by driving 26 miles over paved highway to a point up the Kern River Valley; from that point a toll road climbs 11 miles to the ridge crest beyond the Sherman Peak Tungsten Mine to within 2 miles of the claims. The toll road is in good condition, but excessively steep grades prohibit travel except in vehicles with extra low gear. The property is reached easily from the road by trail.

Geology

The prospects are in small bodies of metamorphic rocks in granodiorite. The metamorphic rocks form a discontinuous band that trends northwesterly along the west-facing mountain side. They consist of interbedded hornfels, schist, quartzite, light-colored calc-silicate rocks, and tactite. In places they are highly contorted and folded. The tactite consists of garnet, epidote, amphibole, and quartz, and in parts of the tactite the tungsten-bearing mineral scheelite occurs.

The most northerly prospect is in North Meadow No. 1 claim. It is an outcrop of metamorphic rocks that is nearly crescentic in outline, and measures 28 feet long and 10 feet wide. Most of the outcrop is tactite. The bedding of the tactite strikes N.55°E., and dips from 35 degrees to 70 degrees NW. Lamping with ultra-violet light showed sparse grains of scheelite disseminated throughout the tactite. A chip sample taken across a 6 foot width of tactite was assayed by the Bureau of Mines at Reno and contained 0.55 percent WO_3. The average grade of the exposed tactite is estimated to be not higher than 0.2 percent WO_3.

Two outcrops of metamorphic rock are between the most northerly prospect and the next prospect to the southeast. One is about 250 feet southeast of the northerly prospect. It covers an area 25 feet wide by 50 feet long, and consists of schist, hornfels and a minor amount of tactite. The bedding of these metamorphic rocks strike N.30°W and dips 60°NE. The second outcrop is 100 feet farther to the southeast and covers an area 10 feet wide and 30 feet long. The rocks are similar to those in the first outcrop. Both outcrops were lamped at night, and are almost barren of scheelite. One contained a single small grain of scheelite, the second contained perhaps half a dozen small grains.

The second prospect is several hundred feet southeast of the most southeasterly of these outcrops. The prospect consists of two small pits in a tactite body in granodiorite that is exposed discontinuously for approximately 50 feet along its trace. The bedding of the tactite strikes N.10°W.and is vertical. At the north end of the exposure the tactite body is 8 feet thick and at the south end is poorly exposed, but appears to be as much as 30 feet thick. Most of the exposed tactite is barren of scheelite. The most abundant occurrence of scheelite is in a three foot width of the tactite exposed by a pit in the northern part of the outcrop. There the scheelite occurs as three parallel shoots that are one-half inch wide and no more than three feet long, and are spaced in a staggered manner along a 3-foot width of the bed. The remaining 5-foot width of the bed is nearly barren. A chip sample taken across the 3-foot width was assayed by the Bureau of Mines in Reno, and contained 0.77 percent WO_3. About one ton of sorted ore on the dump near the small pit is estimated to contain 1.5 percent WO_3. A boulder with a volume of five cubic feet lies near the south end of the exposed tactite, and is reported to have come from near the north end of the tactite exposure. The boulder contains many scheelite crystals some of which are as much as 1½ inches across. It is estimated to contain between 2 and 5 percent WO_3. No tactite of this grade was seen in place.

The third prospect is about 1000 feet southeast of the second prospect, and is covered by the Meta No. 1 claim. It is on a prominence of a steep spur and consists of several small pits in a body of tactite surrounded by granodiorite. The tactite body appears to be an almost completely eroded trough of a syncline that plunges gently northwest. The southeast end of the tactite body is exposed, but to the northwest the

tactite is concealed beneath slopewash. The tactite body is exposed for 90 feet along the trace of the axial plane of the syncline and for a width of 60 feet normal to the axial plane. The trace of the axial plane of the syncline trends N.55°W. The south limb strikes N.75°W. and dips 25 degrees northeast; the north limb strikes N.42°W and is vertical. At the northwest end of the exposure of tactite a small pit exposes a shear zone two feet wide. The shear zone strikes N.32°E and is vertical. North of the shear zone the bedrock is concealed, but two small pits north of the shear zone are in slope wash that contains tactite float. Therefore, it is believed that the tactite body extends beneath the slope wash north of the exposure.

Most of the tactite is barren. The southeast end of the exposure is barren except for a few areas of several square feet that lamp between 0.5 and 1 percent WO_3. In the northwest half of the exposure much of the tactite lamps about 0.1 percent WO_3 and a few areas lamp about 0.5 percent WO_3. One outstandingly rich streak is 12 feet long and an average of 1 foot wide. It contains uncommonly coarse crystals of scheelite and is estimated to contain an average of 2 percent WO3. A few small grains of scheelite were seen in the float from the small pits northwest of the shear zone.

Ore Reserves

A negligible amount of ore of mineable grade occurs in the deposits and except for the Meta No. 1 prospect, the occurrence of the ore is too spotty to allow a calculation of reserves. It is estimated that possibly 10 percent of the tactite body exposed on the Meta No. 1 claim will average 0.5 percent WO_3. The ore appears to be amenable to hand sorting and it is likely that a smaller percentage could be sorted to a grade of 1 percent WO_3. The quantity of tactite that forms the Meta No. 1 deposit probably is small, owing to the synclinal structure suggested by the exposures. The part of the tactite body east of the shear zone is calculated to constitute approximately 6000 tons. Assuming that 10 percent of this 6000 tons is ore with a grade of 0.5 percent WO_3, the deposit contains 300 units of WO_3. The amount of tactite or ore northwest of the shear zone cannot be calculated owing to the lack of exposure.

Conclusions

None of the deposits show much promise of containing a significant quantity of tungsten ore. The prospect on Meta No. 1 claim is the most promising of the group, but is economically unattractive owing to the low average grade of the ore, the limited size of the ore body, and difficult accessibility of the deposit. The occurrence of scheelite in all of the deposits is spotty, and the ratio of barren rock to scheelite-bearing rock is high. There is no geologic evidence to indicate that a different condition will obtain in the unexposed parts of the tactite bodies. It is likely that a small exploration program consisting of trenching would expose tactite northwest of the shear zone, but such exploration does not seem warranted in view of the low average grade of the exposed tactite.

It is recommended that the applicant's request for Government aid to explore the Pacific Star deposits be denied.

FILE COPY
400 SURNAME:

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

Martin
Geehan
Lemmon
Hedges

SEP 5 1952

Mr. Harold W. Smith
Pacific Star Mines, Inc.
1140 Sierra Madre Boulevard
San Marino, California

Re: Docket No. DMEA 2673 - Tungsten
North Meadow Nos. 1 and 2, and
Meta Nos. 1 and 2 claims
Tulare County, California

Dear Mr. Smith:

Your application for assistance in exploring tungsten occurrences on the subject claims has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. O. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field review.

We thank you for advising the above Division during your visit of September 2, 1952, that after your previous application, Docket No. DMA 1844, was denied by Defense Minerals Administration under date of August 24, 1951, an inspection in connection with your access road application, which was also denied, was made of your claims by Mr. Benjamin H. Sheahan, Mining Engineer, U. S. Bureau of Mines, Reno, Nevada.

The Regional Office will contact you at an early date in regard to the examination of your property. We understand that Mr. Miller assisted you in preparing your latest application and has indicated that some of his staff will be available to make the examination. Any assistance which you may render the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf (for) B.H. 9-5-52

Acting Administrator

WSMartin:ls 9/3/52

cc: Docket
Admn. Reading File
Field Team, Region 3
R. W. Geehan, USBM
D. M. Lemmon, USGS
W. S. Martin, Code 400, DMEA
Operating Committee

DOCKET
J.A.R.
WSM

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

SEP 5 1952

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

Dear Sir:

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

Applicant Pacific Star Mines, Inc.

Docket No. DMEA 2673

Commodity Tungsten

Amount $ 18,970

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

Sincerely yours,

Ernest Wm. Ellis (EWE)

ACTING Chairman, Operating Committee
Defense Minerals Exploration
Administration

9-5-52

APPROVED:

Jo. H. Hedges (EWE)
Member, Bureau of Mines

D. M. Lemmon (EWE)
Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2673

Commodity Tungsten

Total Amount $18,970

Govt. Participation $14,227.50

1. Name and Address of Applicant Pacific Star Mines, Inc., 1140 Sierra Madre Boulevard, San Marino, California

2. Location of Property Secs. 21 and 22, T. 22 S., R. 33 E., Tulare County, California.

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 X

c) None --

d) Don't know—needs field examination --

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

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

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

Does the lease have sufficient time to run to cover a future productive period? Yes 10 years plus extended 10 years.

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? - -

b) MF-202? - -

MF-203 X

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)* Poor

d) Water (question 13)* X

e) Power (question 13)* X

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* No. Intends to hire capable supervisor.

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? - -

Is this part a worthwhile exploration project? --

d) Are the cost estimates detailed? No

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? --

f) Should more information be requested from applicant? --

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? Yes

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? Rent charged on applicant's equipment.

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? No

c) Is the schedule excessive for the work proposed? Yes

d) Are the proposed wages and salaries reasonable? No

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? - -

c) Reasonable? - -

d) Field check needed? - -

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

(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? If contract is warranted, please check to see if sufficient information and subordination agreements for preparation of contract are furnished.

Reviewed by: F. A. Rutledge

Date September 3, 1952

rom
Johnson's office in Reno
Rood
Ben Sheehan
Saw the claims
orally
Recommended Mill

Brush Creek is
four miles down the mountain

0.2 up to 7.0

Orville F. Rush
Suite 501 Washington Bldg

DMA 1844 X

IN REPLY REFER TO:

G-MD-CF

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

August 27, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $18,970 DMEA 2673 - Tungsten
Pacific Star Mines, Inc.
1140 Sierra Madre Blvd.
San Marino, California
(Harold W. Smith, Pres.
S. D. Crotensberg, V.-Pres.
Walter W. Woods, Sec-Treas.)

Property: North Meadow Nos. 1 and 2 and
Meta Nos. 1 and 2 claims
T. 22 S., R. 33 E.
Sequoia National Forest
Tulare County, California

Proposal: The applicant proposes to drive a 100-foot crosscut adit with a 50-foot drift. A crude road will be constructed for 3 miles from the nearest cat trail at a point 6½ miles from the highway.

Comment: After deduction of $1,440 for road construction, the cost per foot of driving 150 feet underground will be $116.86, which appears excessive.

The property is at high altitude (8,000 to 9,000 feet according to the application) in rough terrain; therefore, costs of road construction may have been underestimated by the applicant.

The applicant's description suggests that additional trenching and sampling might be warranted, but that underground work is not yet justified. The chance of finding enough ore to supply a mill is poor, and the inaccessibility of the property might prevent profitable shipment of ore.

Copy retained 400

These claims are not sufficiently well described in the application for me to determine if they were examined by the Geological Survey in 1944. It is possible that the principal prospect is in sec. 34, T. 22 S., R. 33 E. and was formerly known as Brush Creek No. 1. A memorandum report by Konrad B. Krauskopf of the Geological Survey, dated April 20, 1944, gives the following description of prospects in the area:

"Fourteen claims are owned by S. T. Halsted, S. D. Crotsenberg and R. D. Lewis in the area north and east of the Road's End post office, 20 miles north of Kernville. Not all were visited, but probably the majority are unimportant. The only claim from which production is even remotely possible in the near future, Brush Creek No. 1, is in the northwest quarter of Section 34, T. 22 S., R. 33 E., MD B&M, 3 miles by trail from the highway, at an elevation of 6,500 feet (Kernville Quadrangle). Brush Creek claims Nos. 2, 3 and 4 are nearby; several other claims are on Durrwood Creek, 8 miles northwest; another group is halfway between; and finally two claims are on the Kern River 3/4 mile above the highway bridge.

"A small roll mill of peculiar design is being constructed near the Brush Creek No. 1 claim. No ore has yet been milled or shipped, except for a small test run at the McKee mill in Walker Basin. Workings on the claim are limited to small pits.

"The prevailing granodiorite in this general area contains many xenoliths or pendants of metamorphic rock, some with thick layers of marble. At the Brush Creek No. 1 claim, tactite is spottily developed along a marble-granodiorite contact. The contact parallels bedding in the marble, which trends N. 15°-40° W. and dips about 60° E. The biggest exposure of tactite measures about 6 by 30 feet, over which the average grade is at least 0.5% WO_3. Two other small exposures show ore of lower average grade. Abundant tactite in the float suggests that other bodies are concealed. Indicated ore in the large exposure, on the assumption of continuity downward for 5 feet, amounts to 100 tons or 50 units of WO_3. More generous assumptions about downward and lateral extension suggest 200 tons or 100 units of inferred ore.

"The two Kern River claims, one on either side of the river above the highway bridge (NE¼ Sec. 35, T. 22 S., R. 32 E.), are small tactite xenoliths with little chance of downward extension for more than a few tens of feet beneath the outcrops. The western xenolith (Claim No. 1) has roughly 100 tons of 0.5% ore in sight and an equal quantity may be reasonably inferred, but there seems little hope that this ore can ever be moved profitably."

Recommendation: I suggest that the application be referred to the Field Team for examination of the property with particular reference to size of possible ore bodies and content of WO_3, accessibility, proposed or alternative plan of exploration, possible disposal of ore, and costs.

D. M. Lemmon

Mr. Harold W. Smith
Pacific Star Mines, Inc.
1140 Sierra Madre Boulevard
San Marino, California

Subject: DMEA-2673
Re: Exploration Assistance
North Meadow #1, #2, etc. -T
August 26, 1952

Tulare Co.,

My dear Mr. Smith:

The receipt of your application dated August 19, 1952, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2673 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2673 in any future correspondence relating to your application.

Sincerely yours,

SIGNED
Wingfield Chamberlain
Acting Chief, Operation's
Control and Statistics Division

25451

PACIFIC STAR MINES, INC.
1140 Sierra Madre Blvd.
San Marino, California

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 25 1952

Los Angeles, California
August 19, 1952

Defense Mineral Exploration Administration
Department of the Interior
Washington 25, D. C.

Gentlemen:

Enclosed herewith you will find an application from Pacific Star Mines, Inc., a California corporation, for an Exploratory Loan in connection with Tungsten deposits in Tulare County, California.

We trust you will find this application in order and that you will give it your consideration at the earliest possible opportunity.

Yours very truly,

PACIFIC STAR MINES, INC.

Harold W. Smith

Harold W. Smith
President

hws-w
enc.

MF-103
(Revised April 1951)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 25 1952

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-2673
Metal or Mineral
Date Received 8-25-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: PACIFIC STAR MINES, INC., 1140 Sierra Madre, Blvd., San Marino, Calif., Incorporated under the laws of California
Harold W. Smith, President, 2449 Ridgeway Road, San Marino, California
Walter Wayne Woods, Sec.-Treas. S. D. Crotensberg, Vice Pres.
1140 Sierra Madre Blvd., San Marino, Cal. R.F.D., Kernville, California

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

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

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

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Mining Claims known as North Meadow #1, North Meadow #2, Meta #1, and Meta #2, in Sequoia National Forest, Sherman Peak Area, Tulare County, California, Brush Creek Mining District, Pacific Star Mines

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise The above mining claims have been leased to Pacific Star Mines, Inc., for 10 years from June 25, 1951

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

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

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) [redacted]e the mineral or minerals for which you wis[redacted]xplore Tungsten Scheelite WO_3

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated August 19, 1952

Pacific Star Mines Inc.
(Applicant)

By Harold W. Smith Pres.
M. M. Moore Sec-Treas.

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

DETAILED ANSWERS IN CONNECTION WITH APPLICATION
FOR EXPLORATORY LOAN BY PACIFIC STAR MINES, INC.
AS REQUESTED IN FORM MF-103

3. APPLICANT'S PROPERTY RIGHTS.

(f) Lode Claim Meta #1 situated in Brush Creek Mining District, County of Tulare, State of California, Notice of Location of such claim being recorded June 12, 1951, in Volume 1525, page 337, Official Records of Tulare County, California, as Document No. 16957; Meta #2 recorded in Volume 1529, page 339, Document No. 16958; North Meadow #1 recorded in Volume 1525, page 343, Document 16960; North Meadow No. 2 recorded in Volume 1525, page 345, Document No. 16961.

4. PHYSICAL DESCRIPTION.

(a) Work has been done opening approximately 50 ft. face of Meta #1 and some work on North Meadow #2, also a 5 ft. trench into Meta #1 and 6 ft. opening into North Meadow #2.

A camp was established on the claims in 1951; exploration and a survey were made for proposed road and work conducted along the face of Meta #1 by four men over a 30 day period. This work was done by or paid for by present members of Pacific Star Mines, Inc.

The claims are approximately nine miles from the Kern River paved highway, and 27 miles above Isabella, near Sherman Peak. There is a tractor road from the Kern River Highway to within approximately 2½ miles of the mining claims, owned by a private party.

(b) No past production.

(c) Enclosed is a mining engineer's report made in 1951 after an examination of the property, also a sketch of ore body on Meta #1 where exploration is to be carried on.

(d) From paved highway a cat trail passes within three miles of the property at a point approximately 6½ miles from the highway. We propose to run a cat trail from this point to the property, a distance of approximately 3 miles. Residence for the operators will be at the mine. Bunk houses and mess hall

will be constructed at the site from lumber obtainable from a nearby saw mill. Supplies can be obtained from the town of Kernville, approximately 20 miles away. A tungsten mill is located at Weldon, approximately 35 miles away.

(e) Manpower is available in the locality as there are mines and lumbering and small towns located throughout the district and the property is located only 200 miles from Los Angeles. The small towns nearby supply other mines and lumber camps and the city of Bakersfield is only several hours away.

Power will be generated by internal combustion engines locally and adequate water flows through North Meadow Creek only a short distance from the ore deposits.

5. THE EXPLORATION PROJECT.

(b) The proposed work will consist of a tunnel starting below the outcropping ore body and driving approximately 100 feet inward. This will determine partial depth of ore body. From the end of the above tunnel a drift of approximately 50 feet will be made to each side of the tunnel to ascertain width of ore body and block out sufficient material to determine feasibility of operation.

(d) One member of the corporation has studied geology and has had considerable field experience in mining. One member has prospected and mined for approximately ten years, constructed and operated his own tungsten mill for experimenting with various processes for removing and recovering WO_3. Several members have prospected for several years; also, have conducted some mining operatinn. However, detailed supervision will be given by superintendent who will be hired, based on his past experience and qualifications.

6. ESTIMATE OF COSTS.

(a) Rentals and direct negotiations rather than contracting.

(b) Labor -

Superintendent - Hired on monthly basis @ $500.00 per month.
Cook - Hired on monthly basis @ $350.00 per month
Miners - Hourly basis @ $2.50 per hour
(Hourly employees on 6 day week, time and one-half for Saturdays)
Truck Driver and Handy Man - $1.75 per hour
Carpenters - $2.50 per hour

90 days labor using above with 4 Miners - $8230.00

(c) Operating materials -

Powder-fuses, oils, fuels, food, etc., 3 month period	$2500.00

(d) Operating equipment

Rentals	
Large Cat $12.00 per hr. 15 days	$1440.00
Truck $150.00 per mo.	450.00
Jeep $75.00 per mo.	225.00
Compressor $150.00 per mo.	450.00
Drills, Hammers, tools, ore cars, rail, etc., at going prices - estimate $500.00 per mo.	1500.00
Power plant and gas plant $125.00 per mo.	375.00
	$4440.00

(e) No rehabilitation.

Some equipment owned by operating members such as truck, ore car, rail power plants, tools, etc., will be used at outlined rentals.

(f) New buildings

Bunk house, bunk house office combination, and mess hall @ $500.00 each	1500.00
Furnishings	300.00
(g) Miscellaneous	1500.00
(h) Contingencies, rental use of part of private cat trail, etc.	500.00
TOTAL	$18,970.00

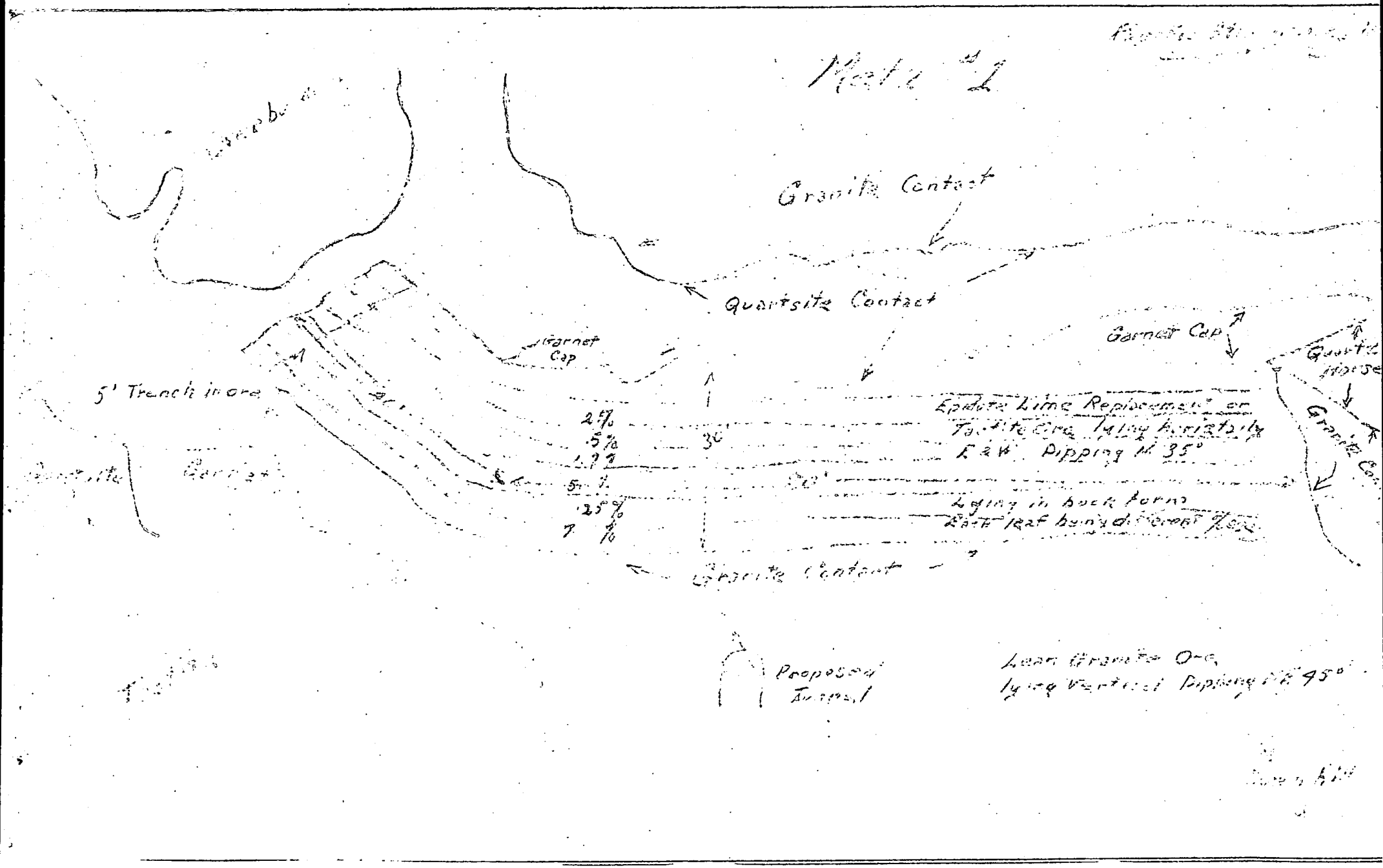
7. (a) Yes

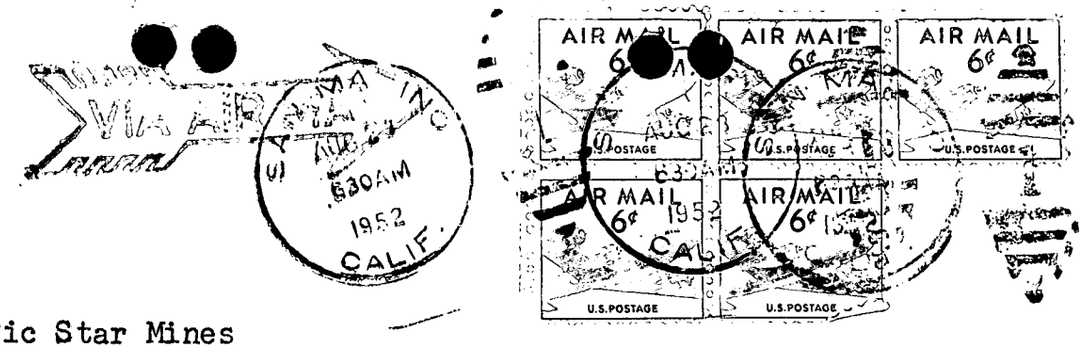
(b) All three ways.

Use of any equipment owned or controlled by members of corporation such as ore cars, rails, gas and electric plants, truck, jeep, etc., at established rentals.

Actual services of any corporate personnel at hourly rates shown (except Superintendent who will always be outside man).

Requirements in excess of above will be contributed in cash.


Hole #1
Granite Contact
Quartzite Contact
Garnet Cap
Garnet Cap
5' Trench in ore
2%
.5%
1.7%
5%
.25%
7%
36'
30'
Epidote Lime Replacement or
Tactite Ore lying horizontally
E & W Dipping N 35°
Lying in rock form
Lath like bands of Garnet Rock
Granite Contact
Quartz Horse
Granite Co
Proposed Tunnel
Lean Granite Ore
lying Vertical Dipping N E 45°



Pacific Star Mines
1140 Sierra Madre Blvd.
San Marino, California

Defense Mineral Exploration Administration
Department of the Interior
Washington 25, D. C.

Sec 21 & 22

Location of claims

Meadow #1
#2
Meta #1
#2
Pine Tree
Meta #3

Brush Creek

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
REPRESENTED BY THE
DIRECTOR OF PUBLIC WORKS

CALIFORNIA
KERNVILLE QUADRANGLE

E. M. Douglas, Geographer.
R. B. Marshall, in charge of section.
Topography by G. R. Davis, Arthur Stiles, and J. W. Muller.
Triangulation by C. F. Urquhart.
Surveyed in 1906.

TRUE NORTH
MAGNETIC NORTH
18°
APPROXIMATE MEAN DECLINATION 1906.

Scale $\frac{1}{125000}$

1 ½ 0 1 2 3 4 5 6 7 8 9 Miles

3000 1500 0 3000 6000 9000 12000 Yards

5000 0 5000 10000 15000 20000 25000 Feet

1 0 1 2 3 4 5 6 Kilometers

Contour interval 100 feet

Datum is mean sea level

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Edition of Jan. 1908, reprinted 1951.
Polyconic projection. North American datum

CALIF.
KERNVILLE
N3530—W11800/30

Maps of the Isabella and Onyx quadrangles, scale 1:62500, from later and more detailed surveys, covering the south half of this area are available.