DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 2194

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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: Act. Administrator Date 11/13/51

To: _____ Date _____

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INT.-DUP. SEC., WASH., D.C. 98868

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 2194

To: Reports and Records Branch

From: Ferro-Alloys Branch

Date: Nov. 13, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Field Team Region III Through Coord. Comm.

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

W03

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DMA Docket No. 2194 Imy. Co Cal. f

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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

	Code 340		
To:	Ferro-Alloys Br.	Date	10/30/51
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CONTROLLED DOCUMENT

FEB 18 1952

February 5, 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 $24,000.00
Docket No. DMA 2194X - Tungsten
Red Rock Claims
Inyo County, California

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

1. There is very little probability, geologically, of making a significant mineral discovery.

2. The average of the best samples taken by the field team assayed only 0.30 percent WO_3. There is no measured or indicated ore and the inferred ore only amounts to approximately 2,000 tons.

3. Small amounts of scheelite are irregularly distributed through a belt of calc-silicate rock 40 to 90 feet wide. Seven samples taken on the property assayed only 0.10 percent WO_3 and under. Additional exploration appears unlikely to result in the discovery of higher grade mineralization or of significant amounts of the grade exposed.

4. The intermittent outcrops along the strike of the zone, both to the northeast and the southeast, contain very little or no scheelite, and, the exposures of this zone in the number 2 cut are very low in scheelite content.

5. The property is a prospect in which the grade of ore and the possible tonnage are too low to warrant DMEA participation.

GGGentry'lm
2/5/52

George C. Selfridge

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

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

Mr. H. A. Lentart
1526 North Mariposa Avenue
Los Angeles 27, California

Re: Docket No. DMA 2198K - Tungsten
Red Rock Claims
Wildrose Mining District
Inyo County, California

Dear Mr. Lentart:

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. D. Mitchener

Acting Administrator
Defense Minerals Exploration
Administration

GCGentry'lm
2/5/52

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

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

C-MD-DML

File

February 1, 1952

Memorandum

To: George C. Selfridge, DMM

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

Subject: Field report DMMA 2194 - Tungsten
Red Rock claims
H. A. Leatart, J. L. Robinson, J. R. Davison
1526 N. Mariposa Ave.
Los Angeles 27, California

Property: Red Rock claims
T. 17 S., R. 45 E.
Mildrose Mining district
South of Skidoo
Panamint Range, Inyo County, California

The property was examined December 18-19, 1951 by E. M. MacKevett of the Geological Survey. His report shows that small amounts of scheelite are irregularly distributed through a belt of calc-silicate rock 40 to 90 feet wide. The only mineralization of possible commercial significance is exposed in the Number Three cut where a mass 20 feet wide and about 50 feet long contains about 2,000 tons to a depth of 25 feet. Two samples cut across this body averaged 0.30 percent WO_3. Seven other samples taken elsewhere on the property assayed only 0.10 or less percent of WO_3.

Mr. MacKevett notes that the expectable tonnage and grade of material are low and insufficient to permit a successful mining operation.

I concur with the Field Team report, and recommend denial of the application.

DMLemmon:gt

Copies to: Director's read. file
Branch read. file

2-18-52

FILE COPY
SURNAME:

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

FEB 18 1952

Mr. H. A. Leatart
1526 North Mariposa Avenue
Los Angeles 27, California

Re: Docket No. DMA 2194X - Tungsten
Red Rock Claims
Wildrose Mining District
Inyo County, California

Dear Mr. Leatart:

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 (fw) 2/18

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry'lm
2/5/52

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

FILE COPY
SURNAME:

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

February 5, 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 $24,000.00
Docket No. DMA 2194X - Tungsten
Red Rock Claims
Inyo County, California

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

1. There is very little probability, geologically, of making a significant mineral discovery.

2. The average of the best samples taken by the field team assayed only 0.30 percent WO_3. There is no measured or indicated ore and the inferred ore only amounts to approximately 2,000 tons.

3. Small amounts of scheelite are irregularly distributed through a belt of calc-silicate rock 40 to 90 feet wide. Seven samples taken on the property assayed only 0.10 percent WO_3 and under. Additional exploration appears unlikely to result in the discovery of higher grade mineralization or of significant amounts of the grade exposed.

4. The intermittent outcrops along the strike of the zone, both to the northeast and the southwest, contain very little or no scheelite, and, the exposures of this zone in the number 2 cut are very low in scheelite content.

5. The property is a prospect in which the grade of ore and the possible tonnage are too low to warrant DMEA participation.

GGGentry'lm
2/5/52

George C. Selfridge 2/6

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

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

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

February 5, 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 $24,000.00
Docket No. DMA 2194X - Tungsten
Red Rock Claims
Inyo County, California

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2. The average of the best samples taken by the field team assayed only 0.30 percent WO_3. There is no measured or indicated ore and the inferred ore only amounts to approximately 2,000 tons.

3. Small amounts of scheelite are irregularly distributed through a belt of calc-silicate rock 40 to 90 feet wide. Seven samples taken on the property assayed only 0.10 percent WO_3 and under. Additional exploration appears unlikely to result in the discovery of higher grade mineralization or of significant amounts of the grade exposed.

4. The intermittent outcrops along the strike of the zone, both to the northeast and the southwest, contain very little or no scheelite, and, the exposures of this zone in the number 2 cut are very low in scheelite content.

5. The property is a prospect in which the grade of ore and the possible tonnage are too low to warrant DMEA participation.

G. C. Selfridge

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

IN REPLY REFER TO:

G-MD-DML

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

February 1, 1952

Memorandum

To: George C. Selfridge, DMEA

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

Subject: Field report DMEA 2194 - Tungsten
Red Rock claims
H. A. Leatart, J. L. Robinson, J. R. Davison
1526 N. Mariposa Ave.
Los Angeles 27, California

Property: Red Rock claims
T. 17 S., R. 45 E.
Wildrose Mining district
South of Skidoo
Panamint Range, Inyo County, California

The property was examined December 18-19, 1951 by E. M. MacKevett of the Geological Survey. His report shows that small amounts of scheelite are irregularly distributed through a belt of calc-silicate rock 40 to 90 feet wide. The only mineralization of possible commercial significance is exposed in the Number Three cut where a mass 20 feet wide and about 50 feet long contains about 2,000 tons to a depth of 25 feet. Two samples cut across this body averaged 0.30 percent WO_3. Seven other samples taken elsewhere on the property assayed only 0.10 or less percent of WO_3.

Mr. MacKevett notes that the expectable tonnage and grade of material are low and insufficient to permit a successful mining operation.

I concur with the Field Team report, and recommend denial of the application.

Dwight M. Lemmon

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

Office of
Executive Officer
DMEA Field Team
Region III

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

January 22, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Mr. H. A. Leatart (partnership) - Claim: Red Rock No. 1, Inyo County, California, 1526 North Mariposa Avenue, Los Angeles 27, California - Docket DMA-2194 (Tungsten).

Reference is made to your subject letter to me dated November 26, requesting further examination of the applicant's Red Rock tungsten claims.

Attached are four copies of a report, "DMEA-2194, Red Rock Claims, Inyo County, California (Tungsten)", by E. M. MacKevett, Geologist, U. S. Geological Survey, dated January 18, 1952.

The examination was made of this deposit to determine the feasibility of a proposed $24,000 exploration program in which the DMEA would participate in the amount of $15,000.

The examining geologist concludes the claims contain an estimated 2,000 tons of inferred ore averaging about 0.30 percent WO_3, and several hundred tons of inferred ore averaging less than 0.20 percent WO_3. As additional exploration appears unlikely to result in the discovery of higher grade ore, or of significant amounts of the grade exposed, it is recommended that the request for an exploration loan be denied.

Paul Bateman of the Geological Survey reviewed the report and also concurs with Mr. MacKevett's conclusions.

Docket is being returned herewith.

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

Attachments

Copy to E. H. Bailey, USGS

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

Reviewed by
DMEA OPERATING COMMITTEE
2-1-52
(date) (RL)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM

REGION III

DMEA-2194, Red Rock Claims
Inyo County, California

(Tungsten)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

E. M. MacKevett, Geologist
U. S. Geological Survey

January 18, 1952

DMEA-2194, Red Rock Claims, Inyo County, California

Summary

The Red Rock claims contain an estimated 2,000 tons of inferred ore averaging about 0.30 percent WO_3, and several hundred tons of inferred ore averaging less than 0.20 percent WO_3. Additional exploration appears unlikely to result in the discovery of higher grade ore, or of significant amounts of ore of the grade exposed.

Introduction

The Red Rock tungsten claims were examined by E. M. MacKevett, U. S. Geological Survey geologist, on December 18th and 19th, 1951 in the company of H. A. Leatart and J. R. Davison, lessees of the claims. The examination was made to determine the feasibility of a proposed $24,000 exploration program in which the Defense Minerals Exploration Administration would participate in the amount of $18,000. In the course of the examination a geologic sketch map was prepared to show the setting of the deposit, the property was examined at night with an ultra-violet lamp, and several chip samples were taken. The lessees were consulted regarding proposed methods of mining, rental of equipment, and costs.

The five Red Rock claims are in the southwestern part of T. 17 S., R. 45 E., MDM (projected) in the Panamint Mountains, Inyo County, California. The nearest railhead is at Trona, about 56 miles south of the property. The property can be reached by traveling on the Skidoo road (a good dirt road) 3.2 miles easterly from the road's junction with the paved Trona-Wildrose-Death Valley road, then driving southeasterly for 0.9 miles on a fair dirt road to the claims.

The deposit was discovered during the summer of 1951 and has been explored by means of three bench-like open cuts. The number three cut is about 50 feet long and the number two cut, part of which is in slope wash, is about 75 feet long. The maximum depth of these cuts is about 10 feet.

Geology and Ore Deposits

The Red Rock claims are in an area of early Paleozoic or Pre-Cambrian metasedimentary rocks, which generally strike northeasterly and dip steeply to the northwest. Scheelite, the only tungsten mineral present, is distributed sporadically in a zone of calc-silicate rock from 40 to 90 feet wide. The calc-silicate rock zone is believed to be several hundred feet in length, but because it is partly covered by slope wash and alluvium the exact length of the zone was not determined. The calc-silicate rock is tan in color and is made up mainly of calcite, quartz, a pyroxene (probably diopside-hedenbergite) and minor amounts of garnet. Outcrops of

the calc-silicate rock, except in the immediate vicinity of the number three cut, are either barren of scheelite or contain very meager amounts. Numerous quartz veins up to 10 feet in thickness are present within the calc-silicate zone and are most common parallel to the bedding. Although local irregular disseminations of scheelite occur in the quartz veins, the scheelite content is generally less than in the calc-silicate rocks. The best scheelite showings are in the calc-silicate rock exposed in the number three cut. The assay results of samples A-3, A-4, and A-5, taken from the calc-silicate rock exposed in the cut, indicate an average grade of about 0.3% WO_3. However, the intermittent outcrops along the strike of this zone, both to the northeast and southwest, contain very little or no scheelite, and, the exposures of this zone in the number two cut are very low in scheelite.

Light gray siliceous dolomite bounds the calc-silicate rock on both sides, apparently concordantly. Locally, very minute scheelite-bearing veinlets occur within the siliceous dolomite, as at the site of sample E. However, assay results show that the average WO_3 content of the siliceous dolomite, including the quartz veinlets, is less than 0.01 percent.

Slope wash precludes tracing maximum longitudinal dimensions of the ore bodies and also prevents detailed sampling of the potential ore bodies, as few areas of solid outcrop exist entirely across the calc-silicate zone.

Sampling

Twelve chip samples were taken on the claims and assayed by the Hydrometallurgical and Ore Dressing Branch of the U. S. Bureau of Mines at Reno, Nevada. The data on these samples is as follows:

Sample Number	Length in Feet	Percent WO_3
A-1	16	0.02
A-2	10	0.08
A-3	10	0.27
A-4	10	0.36
A-5	grab	0.21
B	40	* 0.01
C	35	* 0.01
D-1	20	* 0.01
D-2	20	0.10
E	20	* 0.01

* Less than

Samples A-1 and A-2 were taken mainly across quartz veins, A-3, A-4, and A-5 are from the calc-silicate rock in number three cut; B and C are from outcrops of the calc-silicate zone; D-1 and D-2 are from calc-silicate rock exposed in number two cut; E is from siliceous dolomite.

Reserves

The only potential ore at the Red Rock claims is in the calc-silicate rock exposed in the number three cut. The extent of this ore body is small, and along the strike of the ore body both to the northeast and southwest only very meager amounts of scheelite are visible under ultra-violet light. The low WO_3 content of samples B, C, D-1 and D-2 substaniate this observation. Slope wash and rubble prevent precise determination of the length of this ore body; a liberal estimate would be around 50 feet. Where exposed in the number three cut this ore body is 20 feet wide. Assuming that the ore body extends to a depth of at least 25 feet and that 12 cubic feet of ore weighs one ton, about 2,000 tons of inferred ore averaging around 0.30% WO_3 is contained in this ore body. The estimate of grade is based on samples A-3, A-4, A-5, which have an average grade of about 0.30% WO_3, and on a 100-ton shipment of ore, which assayed 0.35% WO_3 according to the U. S. Vanadium Corp. However, the accuracy of the analysis of the shipment has been questioned by the applicants who claim an assay of 0.56% WO_3 on a sample of the same lot. Probably several hundred tons of inferred ore averaging less than 0.20% WO_3 exists contiguous to this ore body.

The exploration proposed by the applicants is to deepen existing cuts, , number 3 and number two, and to dig another cut across the calc-silicate zone between these cuts. If ore is exposed, they plan to mine by open pit methods. Diamond drilling to outline the ore body exposed in the number three cut is an additional possibility that has been considered, but the tenor of the ore does not warrant the expense of such exploration.

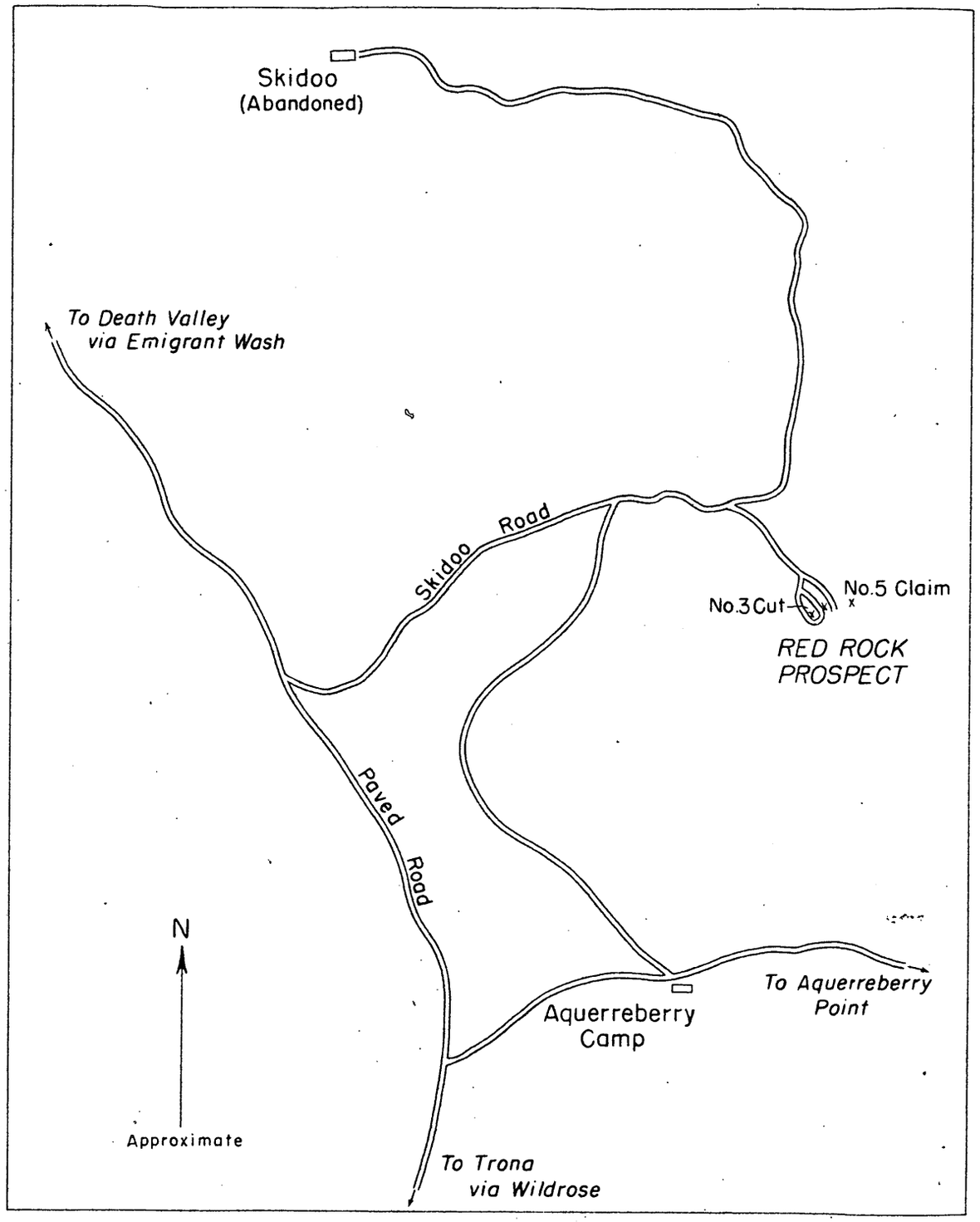
The applicants are willing to rent equipment and also are willing to conform with any suggestions DM EA authorities have in regards to exploring and mining the property.

Conclusion

The tungsten content of the potential ore at the Red Rock claims is low, and the only chance of mining would be to develop very large tonnages that could be handled by low cost mining methods. The possibility of developing a large tonnage on this property seems too small to warrant DMEA participation in any exploration program.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

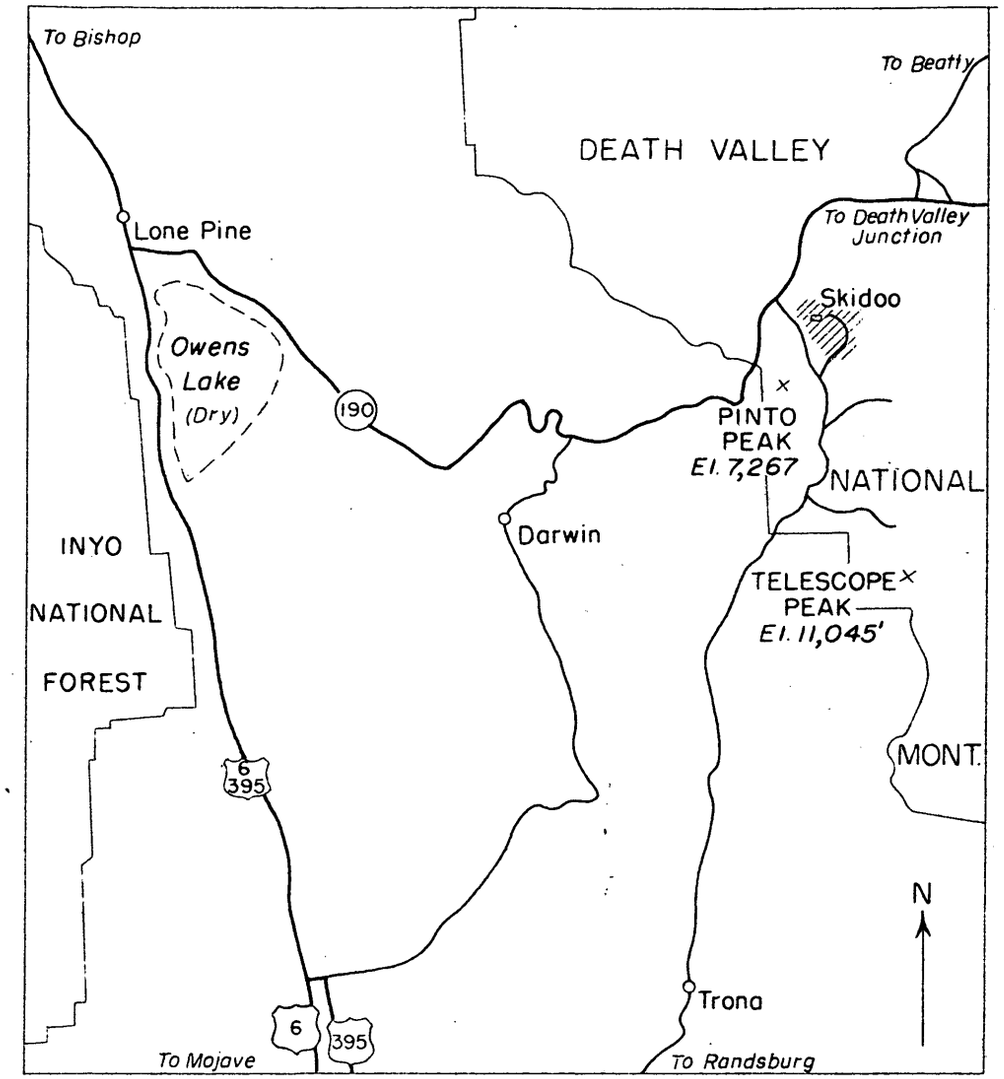
DMA 2194
(TUNGSTEN)



LOCATION OF RED ROCK PROSPECT FROM AERIAL PHOTOGRAPH

0 1/4 1/2 3/4 1 Mile

1" = approximately 3,208'



INDEX MAP SHOWING
LOCATION OF SKIDOO AREA

0 5 10 15 20 25 Miles

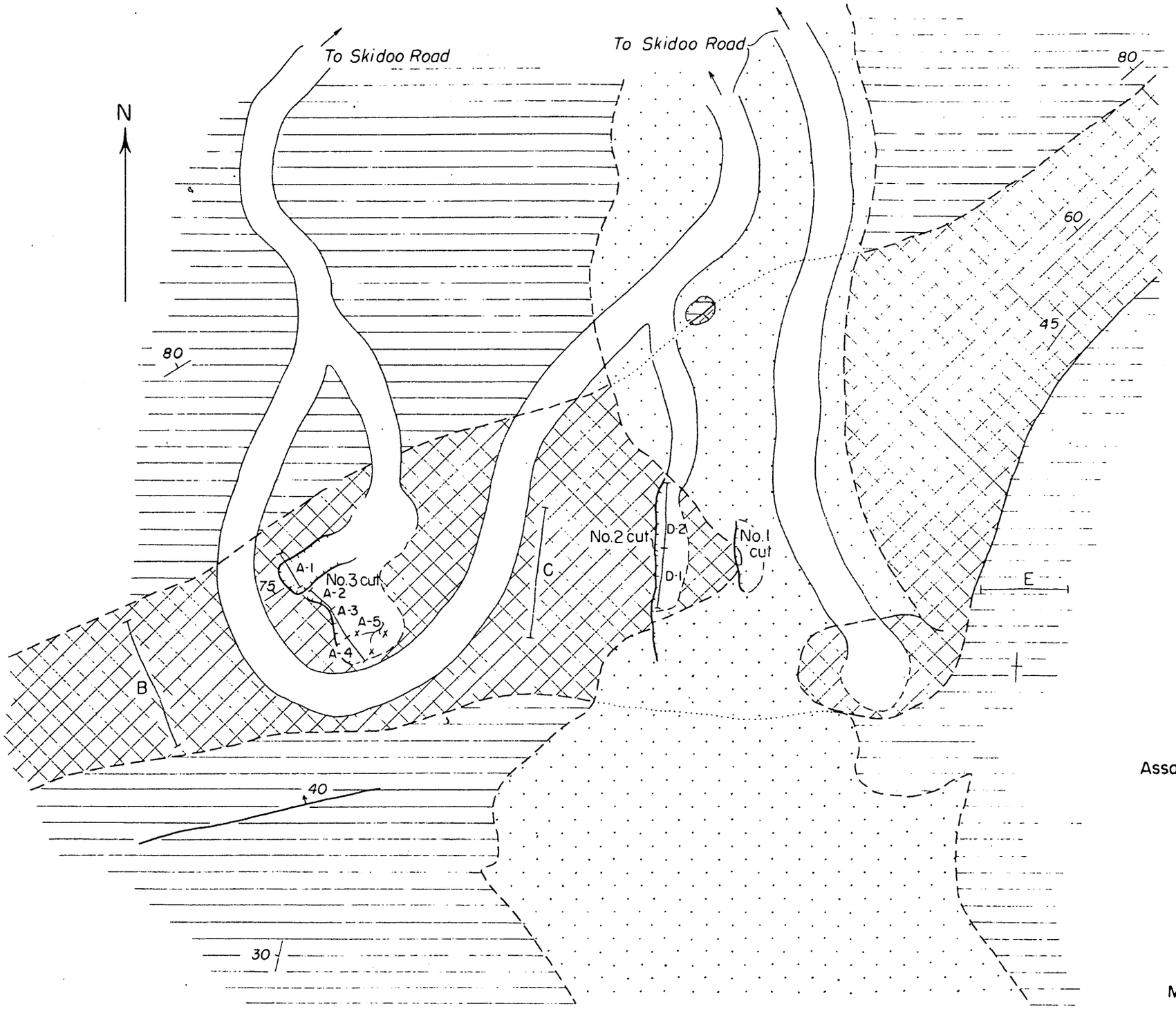
1" = approximately 14 1/2 miles

Mapped by E. M. MacKevett, December 18-19, 1951

LOCATION MAPS, RED ROCK CLAIM, INYO COUNTY, CALIFORNIA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 2194
(TUNGSTEN)



EXPLANATION

al. — Alluvium and slope wash

c s — Calc-silicate rock with quartz vein parallel to bedding; both generally scheelite bearing.

s.d. — Siliceous dolomite

Contact (Dashed where approximately located)

Concealed contact

40 — Fault, showing dip

60 — Strike and dip of beds

Strike of vertical bed

A x — Sample localities

Assays

Sample No.	Length in feet	% WO_3
A-1	16	0.02
A-2	10	0.08
A-3	10	0.27
A-4	10	0.36
A-5	grab sample	0.21
B	40	* 0.01
C	35	* 0.01
D-1	20	* 0.01
D-2	20	0.10
E	20	* 0.01

*less than

Mapped by E. M. MacKevett, December 18-19, 1951

SKETCH MAP OF RED ROCK CLAIM, INYO COUNTY, CALIFORNIA

0 50 100 150 Feet

Approximate scale

Extra copy

Miss Lanahan

Rm 4539

(13)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM

REGION III

DMEA-2194, Red Rock Claims
Inyo County, California

(Tungsten)

E. M. MacKevett, Geologist
U. S. Geological Survey

January 18, 1952

BL

DMEA-2194, Red Rock Claims, Inyo County, California

Summary

The Red Rock claims contain an estimated 2,000 tons of inferred ore averaging about 0.30 percent WO_3, and several hundred tons of inferred ore averaging less than 0.20 percent WO_3. Additional exploration appears unlikely to result in the discovery of higher grade ore, or of significant amounts of ore of the grade exposed.

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The deposit was discovered during the summer of 1951 and has been explored by means of three bench-like open cuts. The number three cut is about 50 feet long and the number two cut, part of which is in slope wash, is about 75 feet long. The maximum depth of these cuts is about 10 feet.

Geology and Ore Deposits

The Red Rock claims are in an area of early Paleozoic or Pre-Cambrian metasedimentary rocks, which generally strike northeasterly and dip steeply to the northwest. Scheelite, the only tungsten mineral present, is distributed sporadically in a zone of calc-silicate rock from 40 to 90 feet wide. The calc-silicate rock zone is believed to be several hundred feet in length, but because it is partly covered by slope wash and alluvium the exact length of the zone was not determined. The calc-silicate rock is tan in color and is made up mainly of calcite, quartz, a pyroxene (probably diopside-hedenbergite) and minor amounts of garnet. Outcrops of

the calc-silicate rock, except in the immediate vicinity of the number three cut, are either barren of scheelite or contain very meager amounts. Numerous quartz veins up to 10 feet in thickness are present within the calc-silicate zone and are most common parallel to the bedding. Although local irregular disseminations of scheelite occur in the quartz veins, the scheelite content is generally less than in the calc-silicate rocks. The best scheelite showings are in the calc-silicate rock exposed in the number three cut. The assay results of samples A-3, A-4, and A-5, taken from the calc-silicate rock exposed in the cut, indicate an average grade of about 0.3% WO_3. However, the intermittent outcrops along the strike of this zone, both to the northeast and southwest, contain very little or no scheelite, and, the exposures of this zone in the number two cut are very low in scheelite.

Light gray siliceous dolomite bounds the calc-silicate rock on both sides, apparently concordantly. Locally, very minute scheelite-bearing veinlets occur within the siliceous dolomite, as at the site of sample E. However, assay results show that the average WO_3 content of the siliceous dolomite, including the quartz veinlets, is less than 0.01 percent.

Slope wash precludes tracing maximum longitudinal dimensions of the ore bodies and also prevents detailed sampling of the potential ore bodies, as few areas of solid outcrop exist entirely across the calc-silicate zone.

Sampling

Twelve chip samples were taken on the claims and assayed by the Hydrometallurgical and Ore Dressing Branch of the U. S. Bureau of Mines at Reno, Nevada. The data on these samples is as follows:

Sample Number	Length in Feet	Percent WO_3
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Samples A-1 and A-2 were taken mainly across quartz veins, A-3, A-4, and A-5 are from the calc-silicate rock in number three cut; B and C are from outcrops of the calc-silicate zone; D-1 and D-2 are from calc-silicate rock exposed in number two cut; E is from siliceous dolomite.

Reserves

The only potential ore at the Red Rock claims is in the calc-silicate rock exposed in the number three cut. The extent of this ore body is small, and along the strike of the ore body both to the northeast and southwest only very meager amounts of scheelite are visible under ultra-violet light. The low WO_3 content of samples B, C, D-1 and D-2 substaniate this observation. Slope wash and rubble prevent precise determination of the length of this ore body; a liberal estimate would be around 50 feet. Where exposed in the number three cut this ore body is 20 feet wide. Assuming that the ore body extends to a depth of at least 25 feet and that 12 cubic feet of ore weighs one ton, about 2,000 tons of inferred ore averaging around 0.30% WO_3 is contained in this ore body. The estimate of grade is based on samples A-3, A-4, A-5, which have an average grade of about 0.30% WO_3, and on a 100-ton shipment of ore, which assayed 0.35% WO_3 according to the U. S. Vanadium Corp. However, the accuracy of the analysis of the shipment has been questioned by the applicants who claim an assay of 0.56% WO_3 on a sample of the same lot. Probably several hundred tons of inferred ore averaging less than 0.20% WO_3 exists contiguous to this ore body.

The exploration proposed by the applicants is to deepen existing cuts, , number 3 and number two, and to dig another cut across the calc-silicate zone between these cuts. If ore is exposed, they plan to mine by open pit methods. Diamond drilling to outline the ore body exposed in the number three cut is an additional possibility that has been considered, but the tenor of the ore does not warrant the expense of such exploration.

The applicants are willing to rent equipment and also are willing to conform with any suggestions DMEA authorities have in regards to exploring and mining the property.

Conclusion

The tungsten content of the potential ore at the Red Rock claims is low, and the only chance of mining would be to develop very large tonnages that could be handled by low cost mining methods. The possibility of developing a large tonnage on this property seems too small to warrant DMEA participation in any exploration program.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM

REGION III

Reviewed by
DMEA OPERATING COMMITTEE
2-1-52
(date) RL

DMEA-2194, Red Rock Claims
Inyo County, California

(Tungsten)

E. M. MacKevett, Geologist
U. S. Geological Survey

January 18, 1952

DMEA-2194, Red Rock Claims, Inyo County, California

Summary

The Red Rock claims contain an estimated 2,000 tons of inferred ore averaging about 0.30 percent WO_3, and several hundred tons of inferred ore averaging less than 0.20 percent WO_3. Additional exploration appears unlikely to result in the discovery of higher grade ore, or of significant amounts of ore of the grade exposed.

Introduction

The Red Rock tungsten claims were examined by E. M. MacKevett, U. S. Geological Survey geologist, on December 18th and 19th, 1951 in the company of H. A. Leatart and J. R. Davison, lessees of the claims. The examination was made to determine the feasibility of a proposed $24,000 exploration program in which the Defense Minerals Exploration Administration would participate in the amount of $18,000. In the course of the examination a geologic sketch map was prepared to show the setting of the deposit, the property was examined at night with an ultra-violet lamp, and several chip samples were taken. The lessees were consulted regarding proposed methods of mining, rental of equipment, and costs.

The five Red Rock claims are in the southwestern part of T. 17 S., R. 45 E., MDM (projected) in the Panamint Mountains, Inyo County, California. The nearest railhead is at Trona, about 56 miles south of the property. The property can be reached by traveling on the Skidoo road (a good dirt road) 3.2 miles easterly from the road's junction with the paved Trona-Wildrose-Death Valley road, then driving southeasterly for 0.9 miles on a fair dirt road to the claims.

The deposit was discovered during the summer of 1951 and has been explored by means of three bench-like open cuts. The number three cut is about 50 feet long and the number two cut, part of which is in slope wash, is about 75 feet long. The maximum depth of these cuts is about 10 feet.

Geology and Ore Deposits

The Red Rock claims are in an area of early Paleozoic or Pre-Cambrian metasedimentary rocks, which generally strike northeasterly and dip steeply to the northwest. Scheelite, the only tungsten mineral present, is distributed sporadically in a zone of calc-silicate rock from 40 to 90 feet wide. The calc-silicate rock zone is believed to be several hundred feet in length, but because it is partly covered by slope wash and alluvium the exact length of the zone was not determined. The calc-silicate rock is tan in color and is made up mainly of calcite, quartz, a pyroxene (probably diopside-hedenbergite) and minor amounts of garnet. Outcrops of

the calc-silicate rock, except in the immediate vicinity of the number three cut, are either barren of scheelite or contain very meager amounts. Numerous quartz veins up to 10 feet in thickness are present within the calc-silicate zone and are most common parallel to the bedding. Although local irregular disseminations of scheelite occur in the quartz veins, the scheelite content is generally less than in the calc-silicate rocks. The best scheelite showings are in the calc-silicate rock exposed in the number three cut. The assay results of samples A-3, A-4, and A-5, taken from the calc-silicate rock exposed in the cut, indicate an average grade of about 0.3% WO_3. However, the intermittent outcrops along the strike of this zone, both to the northeast and southwest, contain very little or no scheelite, and, the exposures of this zone in the number two cut are very low in scheelite.

Light gray siliceous dolomite bounds the calc-silicate rock on both sides, apparently concordantly. Locally, very minute scheelite-bearing veinlets occur within the siliceous dolomite, as at the site of sample E. However, assay results show that the average WO_3 content of the siliceous dolomite, including the quartz veinlets, is less than 0.01 percent.

Slope wash precludes tracing maximum longitudinal dimensions of the ore bodies and also prevents detailed sampling of the potential ore bodies, as few areas of solid outcrop exist entirely across the calc-silicate zone.

Sampling

Twelve chip samples were taken on the claims and assayed by the Hydrometallurgical and Ore Dressing Branch of the U. S. Bureau of Mines at Reno, Nevada. The data on these samples is as follows:

Sample Number	Length in Feet	Percent WO_3
A-1	16	0.02
A-2	10	0.08
A-3	10	0.27
A-4	10	0.36
A-5	grab	0.21
B	40	* 0.01
C	35	* 0.01
D-1	20	* 0.01
D-2	20	0.10
E	20	* 0.01

* Less than

Samples A-1 and A-2 were taken mainly across quartz veins, A-3, A-4, and A-5 are from the calc-silicate rock in number three cut; B and C are from outcrops of the calc-silicate zone; D-1 and D-2 are from calc-silicate rock exposed in number two cut; E is from siliceous dolomite.

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The only potential ore at the Red Rock claims is in the calc-silicate rock exposed in the number three cut. The extent of this ore body is small, and along the strike of the ore body both to the northeast and southwest only very meager amounts of scheelite are visible under ultra-violet light. The low WO_3 content of samples B, C, D-1 and D-2 substaniate this observation. Slope wash and rubble prevent precise determination of the length of this ore body; a liberal estimate would be around 50 feet. Where exposed in the number three cut this ore body is 20 feet wide. Assuming that the ore body extends to a depth of at least 25 feet and that 12 cubic feet of ore weighs one ton, about 2,000 tons of inferred ore averaging around 0.30% WO_3 is contained in this ore body. The estimate of grade is based on samples A-3, A-4, A-5, which have an average grade of about 0.30% WO_3, and on a 100-ton shipment of ore, which assayed 0.35% WO_3 according to the U. S. Vanadium Corp. However, the accuracy of the analysis of the shipment has been questioned by the applicants who claim an assay of 0.56% WO_3 on a sample of the same lot. Probably several hundred tons of inferred ore averaging less than 0.20% WO_3 exists contiguous to this ore body.

The exploration proposed by the applicants is to deepen existing cuts, , number 3 and number two, and to dig another cut across the calc-silicate zone between these cuts. If ore is exposed, they plan to mine by open pit methods. Diamond drilling to outline the ore body exposed in the number three cut is an additional possibility that has been considered, but the tenor of the ore does not warrant the expense of such exploration.

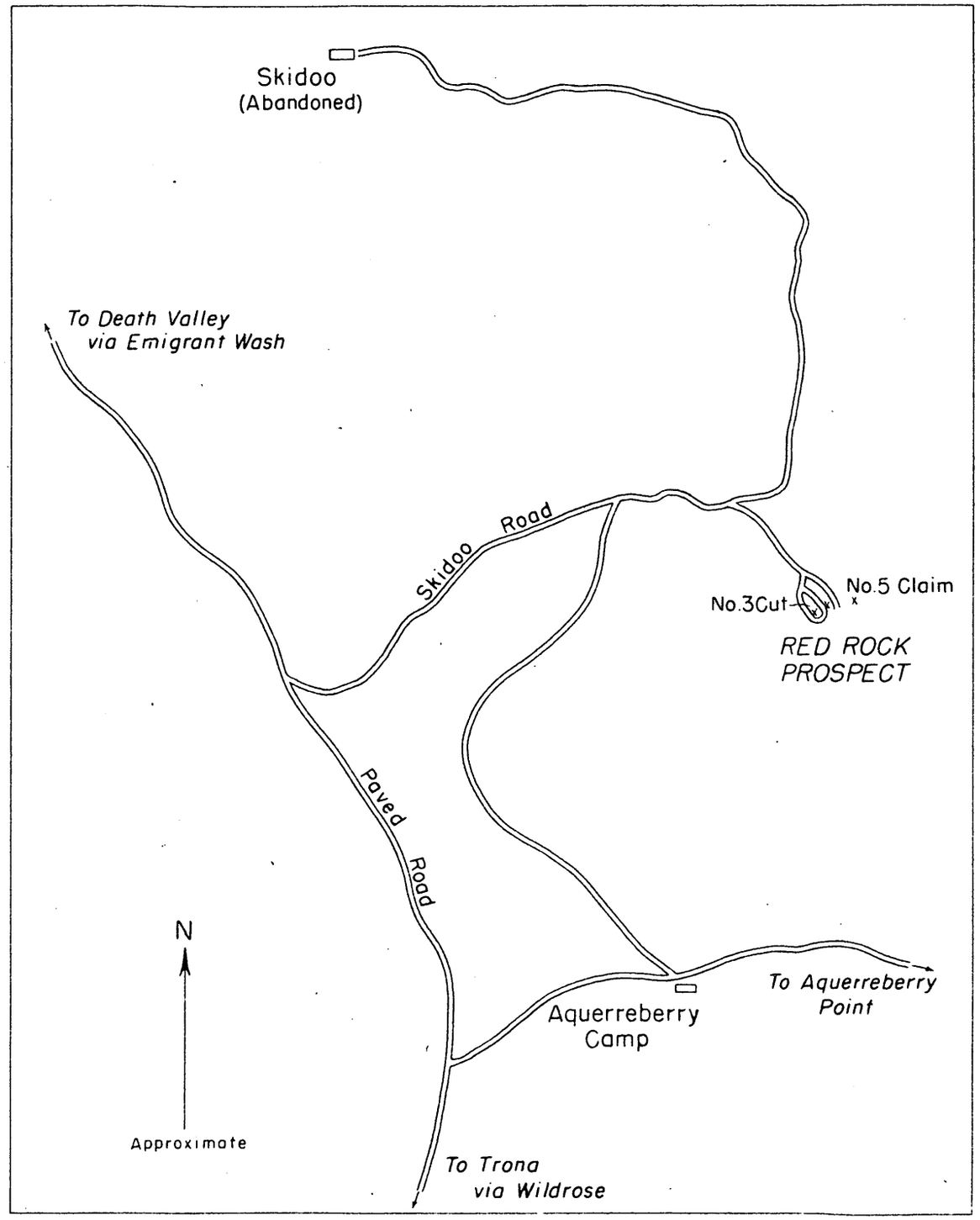
The applicants are willing to rent equipment and also are willing to conform with any suggestions DM EA authorities have in regards to exploring and mining the property.

Conclusion

The tungsten content of the potential ore at the Red Rock claims is low, and the only chance of mining would be to develop very large tonnages that could be handled by low cost mining methods. The possibility of developing a large tonnage on this property seems too small to warrant DMEA participation in any exploration program.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

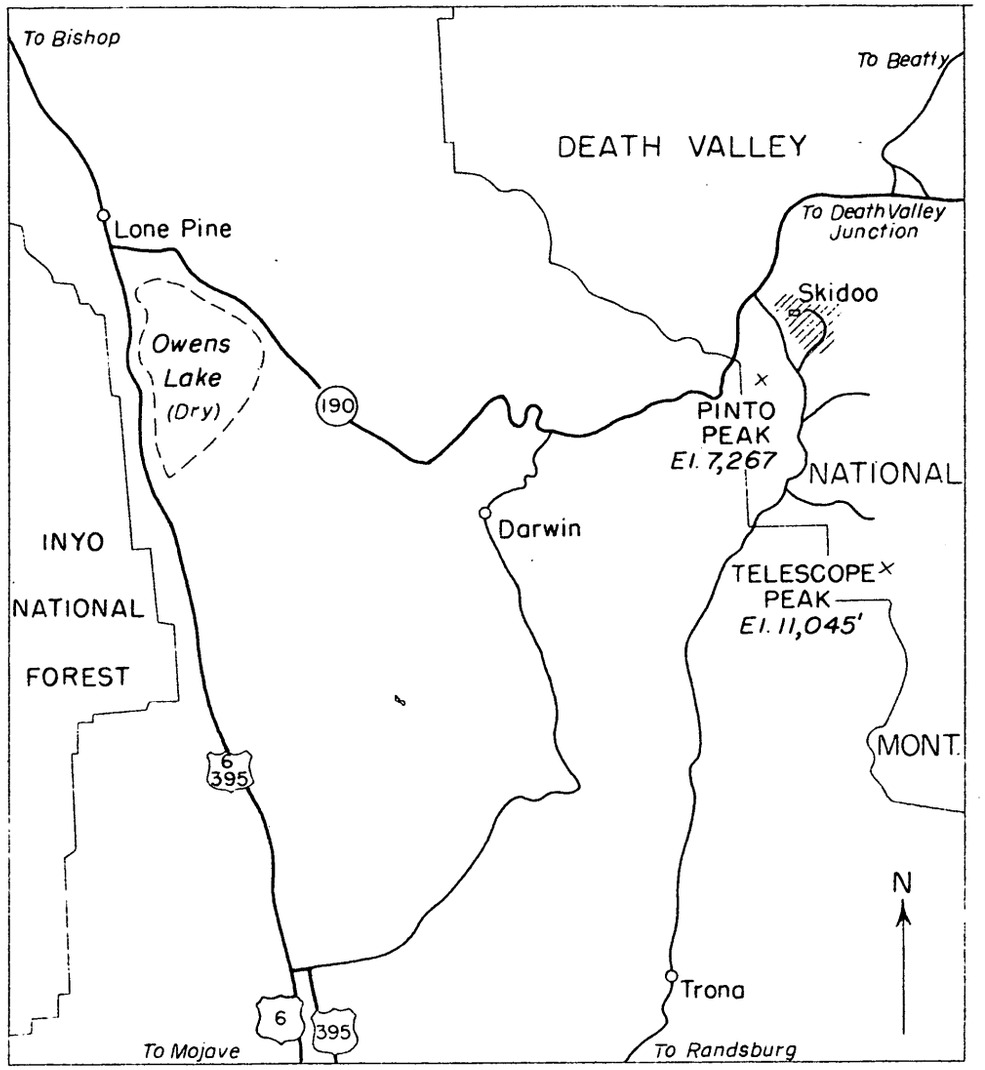
DMA 2194
(TUNGSTEN)



LOCATION OF RED ROCK PROSPECT FROM AERIAL PHOTOGRAPH

0 1/4 1/2 3/4 1 Mile

1" = approximately 3,208'



INDEX MAP SHOWING
LOCATION OF SKIDOO AREA

0 5 10 15 20 25 Miles

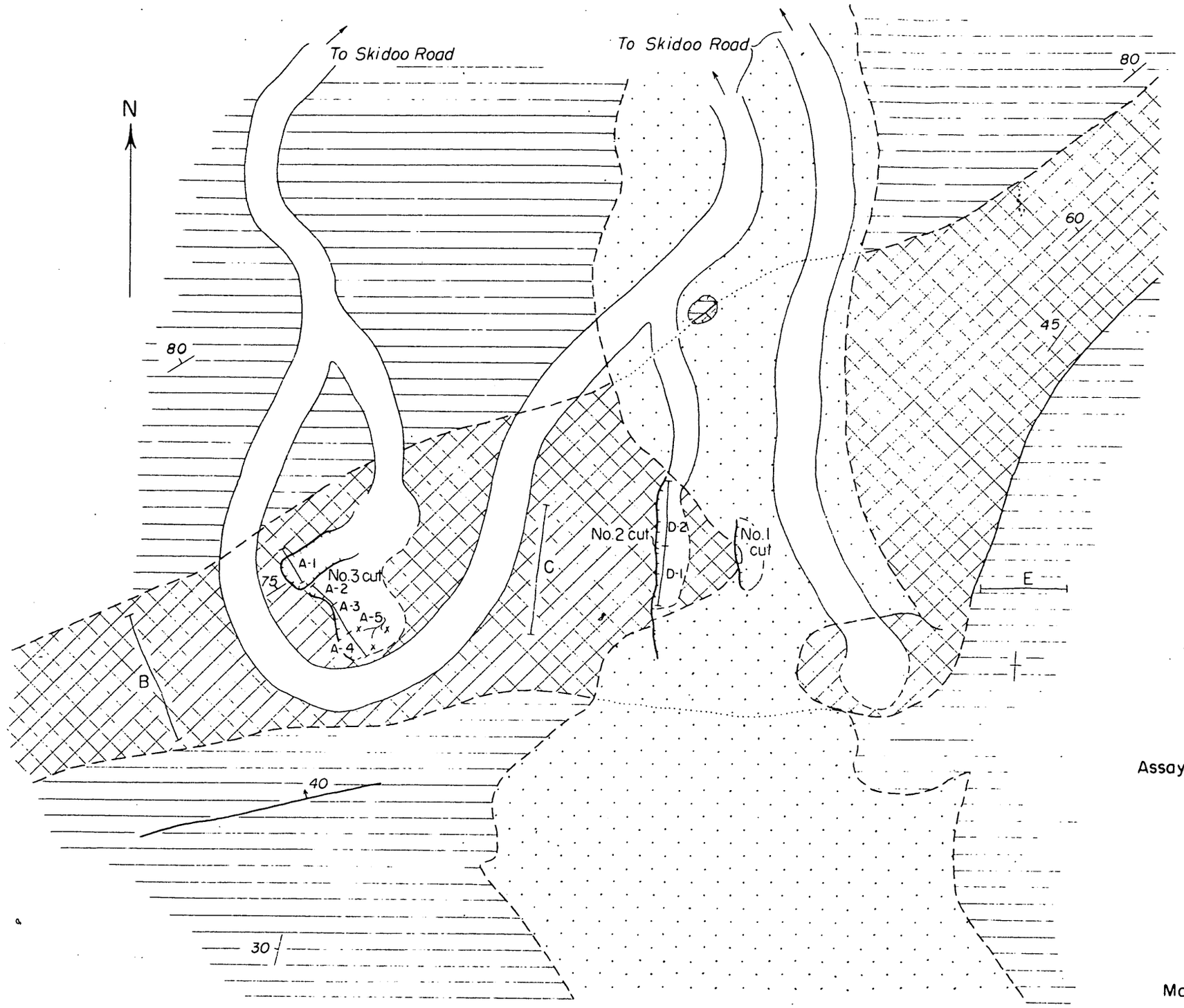
1" = approximately 14 1/2 miles

Mapped by E. M. MacKevett, December 18-19, 1951

LOCATION MAPS, RED ROCK CLAIM, INYO COUNTY, CALIFORNIA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 2194
(TUNGSTEN)



EXPLANATION

al. — Alluvium and slope wash

c.s. — Calc-silicate rock with quartz vein parallel to bedding; both generally scheelite bearing

s.d. — Siliceous dolomite

Contact (Dashed where approximately located)

Concealed contact

40 — Fault, showing dip

60 — Strike and dip of beds

Strike of vertical bed

A — x — Sample localities

Assays

Sample No.	Length in feet	% WO_3
A-1	16	0.02
A-2	10	0.08
A-3	10	0.27
A-4	10	0.36
A-5	grab sample	0.21
B	40	*0.01
C	35	*0.01
D-1	20	*0.01
D-2	20	0.10
E	20	*0.01

*less than

Mapped by E. M. MacKevett, December 18-19, 1951

SKETCH MAP OF RED ROCK CLAIM, INYO COUNTY, CALIFORNIA

0 50 100 150 Feet

Approximate scale

FILE COPY
SURNAME:

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

NOV 26 1951

Holderer
Jacoby
Thayer
Mittendorf

Mr. H. A. Leatart
1526 North Mariposa Avenue
Los Angeles 27, California

In reply please refer to
DMA-2194

Dear Mr. Leatart:

We have studied your application and find additional information is necessary. It is suggested that you contact Mr. H. C. Miller, Executive Officer, DMA Field Team , Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, and offer him whatever help he may require.

Very truly yours,

C. O. Mittendorf (for) 11/26

Administrator
Defense Minerals Exploration
Administration

CHJacoby:ll Nov 13, 1951

CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Mr. Deputy Administrator Room 4617
Field Team, Region III

Index of File

to

Field Team Region III

1 - Copy Form MF-103 with attached sheets

1 - Copy Form MF-100 with attached sheets

FILE COPY
SURNAME:

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

Holden
Gooding
Thompson
Matthews

Mr. H. C. Miller, Executive Officer
DMA Field Team
1012 Flood Building
870 Market Street
San Francisco, California

Subject: Mr. H. A. Spatart (Partnership)
Claim: Red Rock 1
Inyo County, California
1526 North Mariposa Avenue
Los Angeles 27, California
DMA-2194 - Tungsten

Dear Mr. Miller:

We are referring the above docket to you for further examination. The applicant wants an exploration loan of $24,000. It is our opinion that the proposal as outlined by the applicant can be revamped.

They propose to buy the following equipment:

1 - Air compressor (210 c.f.m.)	$5,500
1 - Bulldozer	5,000
1 - Skip loader	7,250
	$17,750

It is our opinion that for the three months period envolved, these items could be rented for $1,700 to $2,000. We would like verification of this point.

Other cost items which are questioned:

Assaying	$30.00
Engineering	200.00
Accounting	130.00
Water	100.00

The applicant intends to apply for a production loan at a later date. It is his understanding that these trenches, if dug deep, will prove the necessary reserves. Exploration work will be required to prove reserves sufficient to act as collateral for such a loan. Therefore, we request the field team to establish whether the present reserve is sufficient.

The applicant's only sample is 1.1[illegible] ounces. One hundred tons of run-of-the-mine material [illegible] Vanadium Corporation at Bishop, California. This material was assayed by [illegible] Vanadium at .25 [illegible]. A company [illegible] showed .5[illegible]. We would like several checks on lots of the mineralized zone.

Very truly yours,

C. O. Mittendorf (for) 11/26

Acting Administrator

Enclosure

For the Bureau of Mines

For the Geological Survey

TJBallard:ec
11/17/51

CC: Adm. Reading File
IMA Docket File
Mr. Holderer
Mr. Lemmon
Mr. Geehan
Mr. Lyon

Los Angeles, Cal. November 24,1951.

Mr. H. C. Miller, Executive Officer
Defence Minerals Administration.
1012 Flood Bldg.
San Francisco, Cal.

Dear Mr. Miller:

I am enclosing herewith additional data consisting of

Sketch of proposed exploration work
Contour map of property
Assay map and assays

as requested by Mr. Holderer in connection with an application for Government assistance filed at Washington on October 24,1951.

I understand this application has been assigned Docket No. D,M,A, 2194, and that a request for a field examination is being forwarded to you.

When you are prepared to make the field examination I can arrange to meet the Examiner at the property, or at Trona, Cal. which latter arrangement might be more convenient. If desireable the Examiner and I could go by auto from Los Angeles.

Will be very glad to have you advise your wishes in the matter.

Yours very truly

H A Leatart

H. A. Leatart

1526 North Mariposa Ave.
Los Angeles 27, Cal.

Copy to Mr. George Holderer
Ferro Alloy Branch
Defense Minerals Adm
Washington, D.C.

Map attached

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George B. Holderer DATE: November 8, 1951

FROM : T. P. Thayer

SUBJECT: DMA docket 2194 - Davison, Robinson, Leatart

More data should be provided before the field team visits the property, specifically assay data along the benches. I understand that the applicants have agreed to furnish the data to the Region III field team, before any visit is arranged for.

The discovery is said to be a new one, and the Geological Survey has no information on it.

George B. Holderer November 8, 1951

T. P. Thayer

DMA docket 2194 - Davison, Robinson, Leatart

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TPThayer:gt

NOV 26 1951

Mr. H. A. Lenhart
1526 North Mariposa Avenue
Los Angeles 27, California

In reply please refer to
DMA-2194

Dear Mr. Lenhart:

We have studied your application and find additional information is necessary. It is suggested that you contact Mr. H. C. Miller, Executive Officer, DMA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, and offer him whatever help he may require.

Very truly yours,

C. O. Mittendorf

Administrator
Defense Minerals Exploration
Administration

1. (a) The property involved in the exploration project is a lode mining claim.

(b) The property is being operated under a lease, a copy of which is attached hereto.

(c) The legal description of the claim is "Red Rock No. 1" The location notice covering same was filed on July 15,1951 and is recorded in Vol. 63 of Mining Locations in the Recorders office of Inyo County, State of California. The immediate area in which the claim is located has not been surveyed, however, according to the U.S. Geological Survey map attached hereto it would be in Township 18 S, Range 44 E .

2. (a) Tungsten has been found on the property.

(b) No previous tungsten mining has been conducted in this area or vicinity. Outcroppings and float on the claim indicate a deposit of Shelite. The location to be explored lies on the slope of a hill measuring approximately 500 ft. from top to bottom. Preliminary explorations conducted by the applicant, consisting of a bench near the top of the hill 30 ft. long and 10 ft. deep, and another bench at bottom of hill 90 ft. long and 10 ft. deep, have exposed a body of tungsten ore that appears to extend the full distance between the benches, a distance of approximately 300 ft. In other words, explorations to date indicate a body of ore 90 ft. wide at the base, extending upward approximately 300 ft. and measuring 30 ft. at the crest.
Assays obtained to date are as follows;
A 100 pound sample of ore was submitted to United States Vanadium Co. at Bishop, Cal. for test purposes. This sample assayed 1.11% WO3. See copy of U. S. Vanadium letter attached.
One Hundred tons of ore was sold and shipped to U.S.Vanadium Co. at Bishop, Cal. The shipment consisted of mine run surface ore, no attempt was made to sort or grade the material. U. S. Vanadium assay on the lot was .35 per cent WO3. A sample from the same lot sent to us assayed .56 per cent WO3. The matter is now in the hands of an umpire for adjudication.

3. (a) As stated in 2 (b) hereof, also as shown on the pencil sketch attached hereto, applicants have already performed certain explorations which consist of benches cut 10 ft. deep into the side hill of the property.
It is now proposed to progress this exploration work by extending these benches to a depth of 20 ft. and to cut a third bench midway between the top and bottom benches.

The estimated cost of this additional exploration is $24,000.00.

(b) The estimated time required to complete the project is three months.

4. See sketch attached. The benches or cuts shown thereon have, for the most part, been made in tungsten bearing ore, that is, a large portion of the material moved in making the cuts contained tungsten in varying quantities and the indications are that this will continue as the benches are extended into the hill.

5. There are no existing buildings or facilities on the property.

6. No buildings or facilities will be installed or erected during the exploration period.

7. Operating equipment to be purchased and charged as a cost of the project.

1 Air Compressor 210 cu.ft.cap.	$5500.00
1 Bulldozer on tracks,wide gauge	5800.00
1 Skip loader on tracks ½ yd. cap.	6250.00
2 Jack hammers	600.00
150 ft. air hose	100.00
Drill steels	50.00
Carbide bit heads	150.00

8. Payroll

Supervisor (part time only)	$2.50 per hour
Miner	2.00 " "
Mucker	1.75 " "

9. Estimated cost of materials, supplies, etc.

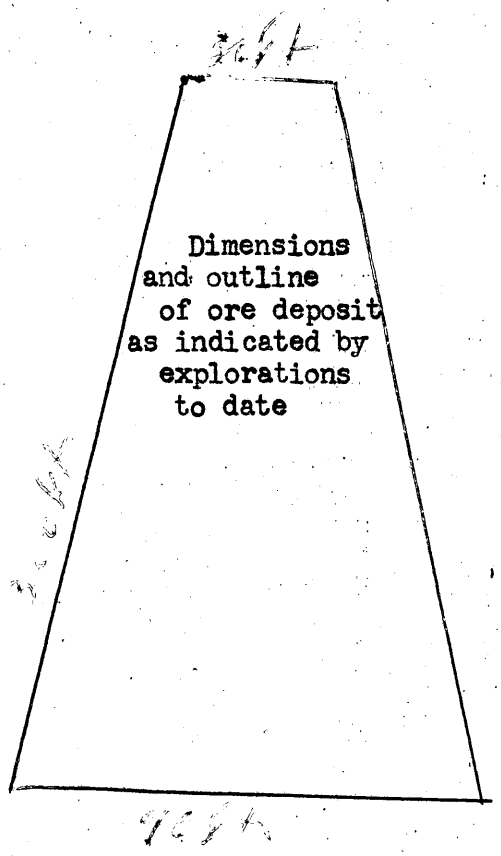
Powder, fuse and caps	$1,000.00
Motor fuel (power)	400.00
Assaying	30.00
Engineering	300.00
Accounting	100.00
Water	100.00
Tool & equipment - repairs & upkeep	100.00
Insurance - State compensation & public liability	200.00
Rental of shelter for supplies & equipment	150.00
Advance royalty payments	600.00

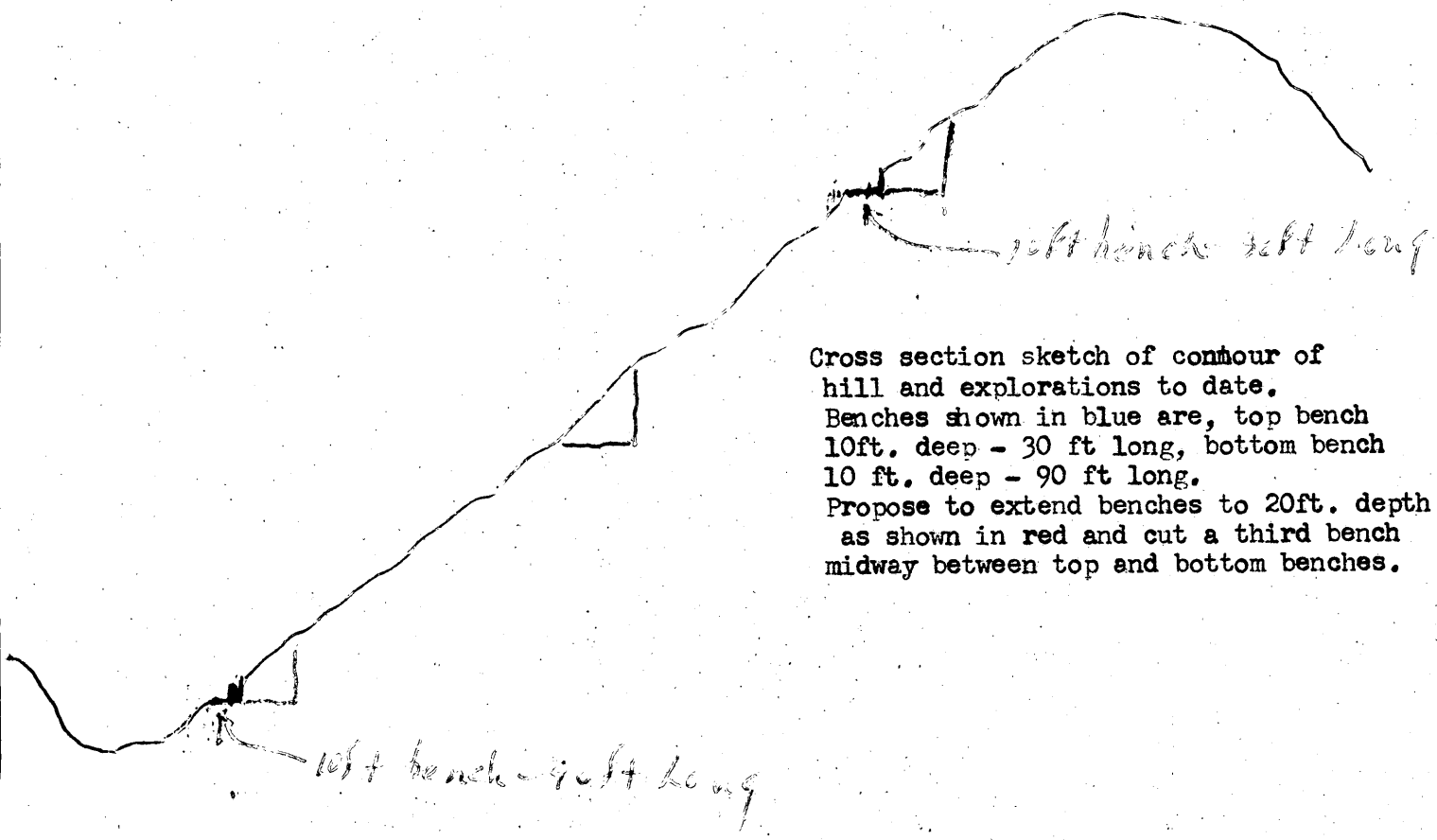
10. (a) Applicants are prepared to invest $6,000.00 in the proposed project.

(b) The above amount is sufficient to pay applicants part of the project in accordance with regulation M-O-5.

11. No conditions or circumstances regarding the project that are not brought out in the foregoing questions.

CREST OF HILL





Cross section sketch of contour of hill and explorations to date.
Benches shown in blue are, top bench 10ft. deep - 30 ft long, bottom bench 10 ft. deep - 90 ft long.
Propose to extend benches to 20ft. depth as shown in red and cut a third bench midway between top and bottom benches.

COPY

LEASE

THIS AGREEMENT made and entered into at Trona, California, this 22nd day of September 1951, by and between Max Barginski and Leo V. Howell, hereinafter referred to as Lessors, and J. R. Davison, J. L. Robinson and H. A. Leatart, hereinafter referred to as Lessees.

WITNESSETH:

That the Lessors in consideration of the rents, royalties, covemants and agreements hereinafter reserved and expressed to be paid and performed by the Lessees, hereby lease unto the Lessees the following described mining claims for the purpose of mining Tungsten and other minerals, to wit

Red Rock Lode Mining Claims 1,2,3,4 and 5 situated in the Wildrose Mining District in the County of Inyo, State of California, and so recorded in the records of the County Recorder of said County.

The term of this lease shall be for a period of Five (5) years from date hereof and as long as thereafter the Lessees shall continue to mine and remove Tungsten and or other minerals from the premises in commercial quantities.

The Lessees agree to keep correct accounts of ore mined and sold and to pay Lessors a royalty of ten (10) per cent on all ore sold, Said royalty to be paid on the price received at the mill or stock pile, less the cost of transporting same from mine to mill or stock pile.

Lessees agree to pay to Lessors all royalties due Lessors from sale of ore in any calendar month upon the fifteenth (15th) day of the month following. Royalties shall be deemed to be due to Lessors when Lessees have received mill or stock pile payments. In the event Lessors operate their own mill royalties shall be paid upon the net returns after deductions for customary transportation and milling costs.

In the event that the royalties realized by Lessors in any calendar month do not equal Two Hundred Dollars ($200.00) then the Lessees shall pay to the Lessors an advance royalty equal to the said difference between the amount actually realized and the above said Two Hundred Dollars. All advance royalties so paid shall be deducted from royalties when and if paid in subsequent months.

The Lessees agree to enter upon the claims and to work the same in a manner necessary to good and economical mining.

The Lessors, or their agents with authority in writing, shall have the right at any ~~time~~ and all reasonable times and places to inspect the books and records of the Lessees concerning the tonnage removed from said described claims.

It is further understood and agreed by and between the parties hereto that the Lessees shall have a right of way over thedescribed claims and any and all other claims owned by Lessors for ingress to and egress from claims under lease.

The Lessees agree that no obligations are to be incurred that will subject the claims to labor, material or other liens of any kind on the part of the Lessors.

Lessees agree to keep a detailed record of development work done and furnish a repor of same to Lessors. Said work to be included as annual labor on said claims.

The Lessees shall have the right to cancel this lease upon thirty (30) days written notice to Lessors and tomremove all portable property.

In the event of the Lessors taking exception to the manner in which above mentioned claims are operated, or to other alleged violations of this agreement, Lessors may serve upon Lessees by registered mail written notice addressed to Lessees at said Lessees designated place of business, setting forth said violations. If said allegations are to be found correct then said Lessees shall correct the practices complained of within thirty (30) days from date of said notice or this agreement shall be cancelled, and the claims returned to Lessors with the exception of portable property whichshall be retained by Lessees.

Lessees agree not to assign this lease without the written consent of said Lessors.

Each and every clause and covenant of this lease shall extend to the heirs, executors and administrators of all parties hereto.

In witness whereof the parties hereto have set their hands and seals this 22nd day of September, 1951.

(signed) Max Barginski -- Lessor
Leo V. HOwell -- Lessor
J. R. Davison -- Lessee
J. L. Robinson -- Lessee
H. A. Leatart -- Lessee

State of California)
County of San Bernardino) ss

On this 22nd day of September 1951 before me personallya appeared Max Barginski, Leo V. Howell, J. R. Davison, J. L. Robinson and H. A. Leatart, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they xexecuted the same as their free act and deed.

In witness whereof I have hereunto set my hand and Notarial seal this 22nd day of September 1951.

Olga Cole
Notary Public
In and for the County of San Bernardino,
State of California
My Commission expires Oct 9, 1954.

C O P Y

UNITED STATES VANADIUM COMPANY

A division of Union Carbide and Carbon Corporation
Bichop, California

August 30,1951.

Mr. H. A. Leatart
3030 West Sixth Street.
Los Angeles, California.

Dear Mr. Leatart:

Your sample of tungsten ore has been assayed in our laboratory . The result is ;

WO3 - - - - - - - - - -	1.11%
Mo - - - - - - - - - -	0.02%

Very truly yours

United States Vanadium Co.

signed Wm. H. Kohler
Mining Engineer.

WHK;me

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dma 2194
Metal or Mineral
Date Received 10-30-51
Amount $
Participation (Government %)

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
OCT 30 2 11 PM '51

H. A. Leatart
J. L. Robinson A partnership
J. E. Davison
1526 North Mariposa Ave
Los Angeles 27, Cal.

Name and address of applicant

Date October 24, 1951.

If you have already filed MF-100, give date filed herewith, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

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.

H. A. Leatart
J. L. Robinson
J. R. Davison
A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24,1951.
(Date)

Partner
(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—64067-2

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. dmal 2194

Date received 10-30-51

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
OCT 30 2 PM

H. A. Leatart
L. Robinson
R. Davison
A partnership

1526 North Mariposa Ave.
Los Angeles 27, Cal.

Name and address of applicant

Date October 28, 1951

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 _____
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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
H. A. Leatart 1526 North Mariposa Ave Los Angeles 27, Cal.	Partner	none	$20,000	none	none	none	none
J. L. Robinson Trona, Cal.	Partner	none	$20,000	none	none	none	none
J. R. Davison 2020 South Grand Ave Los Angeles 7, Cal.	Partner	none	$50,000	none	none	none	none
	Total	none	x x x x x	none	none	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	$ none	$ none	$ none	none	none
Preferred stock	$ none	$ none	$ none	none	none

*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.)	none	none	none	none	see attached statement
2. Quantity of product processed (specify unit of measure and type of process)	none	none	none	none	none
3. Quantity and grade of product sold or shipped (specify units of measure)	none	none	none	none	see attached statement

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.

(*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)	35,000 minimum	one half to one per cent	$31.50 to $63.00	approx 80%	$2.00

W03

(*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.

H. A. Leatart
J. L. Robinson
J. R. Davison A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24,1951.
(Date)

Partner
(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

1. Materials produced

   (a) The chief mine product is Tungsten ore.

   (b) There are no byproducts.

2. Name and type of mine.

The name of the Mine is "Red Rock No. 1 "

It is an open pit type of mine

(a) Shafts -- none

(b) Drifts and crosscuts -- none

(c) Tunnels or adits -- none

(d) Mine openings - The exploration work to date consists of an open cut or bench near the top of a hill approximately 30ft long and 10 ft. deep. Near the bottom of the hill a bench has been cut into the side of the hill approximately 90ft. long and 10ft. deep. The distance between benches is approximately 300ft. The slope of the hill upon which exploration has been conducted is about 30°. Exploration work at the top and bottom benches has exposed a good body of ore, and indications are that the ore extends the full intervening space between benches. The nature of the ore deposit will lend itself to open pit operations. There should be no pumping problems. The estimated productive capacity of the deposit is 35,000 tons.

3. Location, distance, etd.

(a) Trona, California the nearest town and shipping point is 56 miles south of the property.

(b) Wildrose Mining District.

(c) The immediate area has not been surveyed. When done the property will be in Township 18S, Range 44E .

(d) Inyo County, State of California.

4. Operation of property

(a) Exploration work was conducted during the months of August and September 1951. Operations have been suspended for the present. The exploration work was conducted by the applicant.

(b) Applicant is operating property as a lessee.

5. The property is not yet in production.

It is estimated that additional exploration work will require about ninety days. When this explorationh has been completed production can be started immediately.

6. (a) The applicants have had no mining experience except that gained during the past six months in examining and exploring various mines and mineral deposits. The business experience of H. A. Leatart consists of forty years of common carrier and commercial traffic work, for the past fifteen years Traffic Manager of American Potash & Chemical Corp. at Trona, Cal. That of J. L. Robinson, 45 years railroad operation, past 20 years General Manager and President of the Trona Railway, Trona, Cal. That of J. R. Davison twenty years as Pacific Coast representative Russell Mfg. Co. Los Angeles, Cal.

(b) The three above named parties have managed and will continue to manage the project, with the aid of an experienced miner in direct charge and supplemented from time to time by the counsel of and direction of a competent and experienced mining engineer.

7. History

(a) The property had not been explored previous to the exploration conducted by applicants during August and September 1951.

(b) The mining activities in this area have heretofore been for the extraction of gold and silver. This is the first tungsten mining operations conducted in the area.

(c) Mr. Don Hargrove, a mining engineer in the employ of the Newmont Exploration Co. Ltd. an international organization engaged in mining, visited the property on October 18,1951 for the purpose of examination and possible recommending same to his company as an investment. It is his advice that we continue the explorations already started. That is what we propose to do if Government assistance is granted.

A copy of Mr. Hargrove's letter, written after he visited the property and indicating his interest in the project, is attached hereto.

C O P Y

NEWMONT EXPLORATION LIMITED

Goldfield, Nev.
October 19,1951.

Mr. H. A. Leatart
3030 W. 6th Ave.
Los Angeles, Calif.

Dear Mr. Leatart:

This letter is to confirm our conversation of October 18th at the Red Rock claims. My understanding of the agreement was that you and Mr. Robinson and Mr. Davison are to more thoroughly expose the zone you are now working on. Then, if and when you decide that sufficient ore has been exposed to warrent a further examination, you will contact us. I am recommending that a much more thorough examination of the whole area be made if your proposed work shows substantial amounts of commercial ore.

Thank you for your kindness and hospitality, I had an interesting and enjoyable day.

Kindest regards

Sincerely yours

signed Don Hargrove

DH:rd

1. As a result of exploration operations during the months of August and September 1951, approximately 150 short tons of ore was mined.

3. One hundred short tons of ore was sold and shipped to the United States Vanadium Co. at Bishop, Cal. The shipment consisted for the most part of mine run surface ore, no attempt being made to grade or sort the material. U.S.Vanadium assay on the lot was .35 per cent WO3. A sample of the same lot sent to us assayed .56 per cent WO3. The matter is now in the hande of an umpire for adjudication.

11. If the exploration work proposed in this application is completed and the results justify proceeding with the production of ore, a minimum production of 1000 tons per month is contemplated. No estimated maximum has been set.

12. Ore Reserves.

(a) The ore deposit, from surrounding surface indications, is in the midst of a large ore bearing area. This area, in the past, has produced a large amount of gold. This is the first tungsten operation in the area. There are, so far as we have been able to determine, no available reports relative to the tungsten ore reserves in this locality.

(b) 1. The probable ore reserve consists of a hill slope, the area of which measures approximately 30 ft. at the top and 90 ft. atthe base, distance between approximately 300 ft. The depth is unknown, but will be determined in part thru the proposed exploration work.

13. To Trona, Cal. the nearest shipping and supply point, the distance is 56 miles. Five miles of this is dirt and gravel road. The balance is paved road.

Residence point is six miles distant, all dirt and gravel road.

14. An ample supply of water is available throughout the year from springs located approximately eight miles from the property. The reported available flow is 20,000 gallons per day.

15. Power

Gasoline powered equipment will be used during exploration.

The amount will be variable.

16. Labor

One miner and one mucker were employed during recent representative payroll period.

17. Equipment and Facilities.

All equipment used in operations to date has been rented.

No equipment or buildings on property at this time.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

ORE TESTING
SAMPLING
and
SUPERVISION OF
ORE SHIPMENTS

Established 1916

Phone
VAndike 9328

ED. EISENHAUER, Jr.

ASSAYER -- METALLURGIST -- CHEMIST

320-322 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIF.

Nov 21/51

Mr. J. Leatart
Los Angeles
Calif.

Subject : Assays of Rock.

Marked :	Tungstic Oxide (WO_3)
A	.16 %
B	.18 %
C	.19 %
1	.21 %
2	.22 %
3	.63 %
4	.55 %
5	.27 %
6	.32 %

Charges : $ 27.00

Respectfully submitted

Ed. Eisenhauer, Jr

Assayer

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 2194

To: Reports and Records Branch

From: Ferro-Alloys Branch

Date: Nov. 13, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Field Team Region III Through Coord. Comm.

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

Mr. H. C. Miller, Executive Officer
DMA Field Team
1012 Flood Building
870 Market Street
San Francisco, California

Subject: Mr. H. A. Leatart (Partnership)
Claim: Red Rock 1
Inyo County, California
1526 North Mariposa Avenue
Los Angeles 27, California
DMA-2194 - Tungsten

Dear Mr. Miller:

We are referring the above docket to you for further examination. The applicant wants an exploration loan of $24,000. It is our opinion that the proposal as outlined by the applicant can be revamped.

They propose to buy the following equipment:

1 - Air compressor (210 c.f.m)	$5,500
1 - Bulldozer	5,800
1 - Slip loader	6,250
	$17,500

It is our opinion that for the three months period envolved, these items could be rented for $1,800 to $2,000. We would like verification of this point.

Other cost items which are questioned:

Assaying	530.00
Engineering	300.00
Accounting	100.00
Water	100.00

The applicant intends to apply for a production loan at a later date. It is his understanding that these trenches, 20 feet deep, will prove the necessary reserves. Exploration work will be required to prove reserves sufficient to act as collateral for such a loan. Therefore, we request the Field Team to establish whether the present program is sufficient.

The applicant's only assay is 1.11% WO_3. One hundred tons of run-of-the-mine material was shipped to U. S. Vanadium Company at Bishop, California. This material was assayed by U. S. Vanadium at .35 WO_3. A company assay showed .56 WO_3. We would like several check samples of the mineralized zone.

Sincerely yours,

Acting Administrator

Enclosure

For the Bureau of Mines

For the Geological Survey

TJBallard:ec
11/13/51

CC: Adm. Reading File
DMA Docket File
Mr. Holderer
Mr. Lemmon
Mr. Geehan
Mr. Lyon

Index of File

to

Field Team Region III

1 - Copy Form MF-103 with attached sheets

1 - Copy Form MF-100 with attached sheets

11/13/51

Please return

NOV 2 3 1961

Mr. R. C. Miller, Executive Officer
A Field Team
1012 Flood Building
870 Market Street
San Francisco, California

Subject: Mr. H. [illegible] Seitert ([illegible])
Claim: [illegible] Rock [illegible]
Inyo County, California
1526 North Mariposa Avenue
Los Angeles 27, California
[illegible]-2194 - Tungsten

Dear Mr. Miller:

We are referring the above docket to you for further examination. The applicant wants an exploration loan of $24,000. It is our opinion that the proposal as outlined by the applicant can be reviewed.

They propose to buy the following equipment:

1 - Air compressor ([illegible] c.f.m.)	$5,500
1 - Bulldozer	5,[illegible]
1 - Scoop loader	6,250
	$17,[illegible]

It is our opinion that for the three months period involved, these items could be rented for $1,[illegible] to $[illegible],000. We would like verification of this point.

Other cost items which are questioned:

Assaying	30.00
Engineering	[illegible]00.00
Accounting	100.00
Water	[illegible]00.00

The applicant intends to apply for a production loan at a later date. It is his understanding that these trenches, 20 feet deep, will prove the necessary reserves. Exploration work will be required to prove reserves sufficient to act as collateral for such a loan. Therefore, we request the Field Team to establish whether the present program is sufficient.

The applicant's only assay is 1.11 lbs. One hundred tons of run-of-the-mine material was shipped to U. S. Vanadium Company at Bishop, California. This material was assayed by U. S. Vanadium at .25 lbs. A company assay showed .5 lbs. We would like several check samples of the mineralized zone.

Sincerely yours,

(S) C. O. Mittendorf

Acting Administrator

Enclosure

For the Bureau of Mines

For the Geological Survey

TJBellard:ec
11/13/51

CC: Adm. Reading File
DMA Docket File
Mr. Holderer
Mr. Lemmon
Mr. Geehan

NOV 26 1951

Mr. H. A. Leatart
1526 North Mariposa Avenue
Los Angeles 27, California

In reply please refer to
DMA-2194

Dear Mr. Leatart:

We have studied your application and find additional information is necessary. It is suggested that you contact Mr. H. C. Miller, Executive Officer, DMA Field Team, Region III, 1212 Flood Building, 870 Market Street, San Francisco 2, California, and offer him whatever help he may require.

Very truly yours,

(S) C. O. Mittendorf

Administrator
Defense Minerals Exploration
Administration

CHJacoby:ll Nov 13, 1951

CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Mr. Deputy Administrator Room 4617
Field Team, Region III

W03

Mr. H. A. Leatart
1526 North Mariposa Avenue
Los Angeles 27, California

Subject: DMA-2194
Re: Exploration Loan
Red Rock No. 1

My dear Mr. Leatart:

This will acknowledge receipt of your application dated October 24, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2194 and referred to the Ferro-Alloys Branch.

Kindly refer to DMA-2194 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

2463

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 2194

Date received 10-30-51

H. A. Leatart
J. L. Robinson
J. R. Davison
A partnership

1526 North Mariposa Ave.
Los Angeles 27, Cal.

Name and address of applicant

Date October 24,1951.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. 2 11 PM '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 _____
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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
H. A. Leatart 1526 North Mariposa Ave. Los Angeles, Cal.	Partner	none	$20,000	none	none	none	none
J. L. Robinson Trona, California	Partner	none	$20,000	none	none	none	none
J. R. Davison 2020 South Grand Ave Los Angeles 7, Cal.	Partner	none	$50,000	none	none	none	none
	Total	none	x x x x x	none	none	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	$ none	$ none	$ none	none	none
Preferred stock	$ none	$ none	$ none	none	none

*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.)	none	none	none	none	See attched statement
2. Quantity of product processed (specify unit of measure and type of process)	none	none	none	none	none
3. Quantity and grade of product sold or shipped (specify units of measure)	none	none	none	none	See attached statement

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.

(*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)	35,000 minimum	one half to one per cent WO3	$31.50 to $63.00	approx 80%	$2.00

(*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.

H. A. Leatart
J. L. Robinson
J. R. Davison A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24,1951.
(Date)

Partner
(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

1. Materials produced

   (a) The chief mine product is Tungsten ore.

   (b) There are no byproducts.

2. Name and type of mine.

The name of the Mine is "Red Rock No. 1 "

It is an open pit type of mine

(a) Shafts -- none

(b) Drifts and crosscuts -- none

(c) Tunnels or adits -- none

(d) Mine openings - The exploration work to date consists of an open cut or bench near the top of a hill approximately 30ft long and 10 ft. deep. Near the bottom of the hill a bench has been cut into the side of the hill approximately 90ft. long and 10ft. deep. The distance between benches is approximately 300ft. The slope of the hill upon which exploration has been conducted is about 30°. Exploration work at the top and bottom benches has exposed a good body of ore, and indications are that the ore extends the full intervening space between benches. The nature of the ore deposit will lend itself to open pit operations. There should be no pumping problems. The estimated productive capacity of the deposit is 35,000 tons.

3. Location, distance, etc.

(a) Trona, California the nearest town and shipping point is 56 miles south of the property.

(b) Wildrose Mining District.

(c) The immediate area has not been surveyed. When done the property will be in Township 18S, Range 44E .

(d) Inyo County, State of California.

4. Operation of property

(a) Exploration work was conducted during the months of August and September 1951. Operations have been suspended for the present. The exploration work was conducted by the applicant.

(b) Applicant is operating property as a lessee.

5. The property is not yet in production.

It is estimated that additional exploration work will require about ninety days. When this explorationh has been completed production can be started immediately.

6. (a) The applicants have had no mining experience except that gained during the past six months in examining and exploring various mines and mineral deposits. The business experience of H. A. Leatart consists of forty years of common carrier and commercial traffic work, for the past fifteen years Traffic Manager of American Potash & Chemical Corp. at Trona, Cal. That of J. L. Robinson, 45 years railroad operation, past 20 years General Manager and President of the Trona Railway, Trona, Cal. That of J. R. Davison twenty years as Pacific Coast representative Russell Mfg. Co. Los Angeles, Cal.

(b) The three above named parties have managed and will continue to manage the project, with the aid of an experienced miner in direct charge and supplemented from time to time by the counsel of and direction of a competent and experienced mining engineer.

7. History

(a) The property had not been explored previous to the exploration conducted by applicants during August and September 1951.

(b) The mining activities in this area have heretofore been for the extraction of gold and silver. This is the first tungsten mining operations conducted in the area.

(c) Mr. Don Hargrove, a mining engineer in the employ of the Newmont Exploration Co. Ltd. an international organization engaged in mining, visited the property on October 18,1951 for the purpose of examination and possible recommending same to his company as an investment. It is his advice that we continue the explorations already started. That is what we propose to do if Government assistance is granted.

A copy of Mr. Hargrove's letter, written after he visited the property and indicating his interest in the project, is attached hereto.

C O P Y

NEWMONT EXPLORATION LIMITED

Goldfield, Nev.
October 19,1951.

Mr. H. A. Leatart
3030 W. 6th Ave.
Los Angeles, Calif.

Dear Mr. Leatart:

This letter is to confirm our conversation of October 18th at the Red Rock claims. My understanding of the agreement was that you and Mr. Robinson and Mr. Davison are to more thoroughly expose the zone you are now working on. Then, if and when you decide that sufficient ore has been exposed to warrent a further examination, you will contact us. I am recommending that a much more thorough examination of the whole area be made if your proposed work shows substantial amounts of commercial ore.

Thank you for your kindness and hospitality, I had an interesting and enjoyable day.

Kindest regards

Sincerely yours

signed Don Hargrove

DH:rd

1. As a result of exploration operations during the months of August and September 1951, approximately 150 short tons of ore was mined.

3. One hundred short tons of ore was sold and shipped to the United States Vanadium Co. at Bishop, Cal. The shipment consisted for the most part of mine run surface ore, no attempt being made to grade or sort the material. U.S.Vanadium assay on the lot was .35 per cent WO_3. A sample of the same lot sent to us assayed .56 per cent WO_3. The matter is now in the hands of an umpire for adjudication.

11. If the exploration work proposed in this application is completed and the results justify proceeding with the production of ore, a minimum production of 1000 tons per month is contemplated. No estimated maximum has been set.

12. Ore Reserves.

(a) The ore deposit, from surrounding surface indications, is in the midst of a large ore bearing area. This area, in the past, has produced a large amount of gold. This is the first tungsten operation in the area. There are, so far as we have been able to determine, no available reports relative to the tungsten ore reserves in this locality.

(b) 1. The probable ore reserve consists of a hill slope, the area of which measures approximately 30 ft. at the top and 90 ft. atthe base, distance between approximately 300 ft. The depth is unknown, but will be determined in part thru the proposed exploration work.

13. To Trona, Cal. the nearest shipping and supply point, the distance is 56 miles. Five miles of this is dirt and gravel road. The balance is paved road.

Residence point is six miles distant, all dirt and gravel road.

14. An ample supply of water is available throughout the year from springs located approximately eight miles from the property. The reported available flow is 20,000 gallons per day.

15. Power

Gasoline powered equipment will be used during exploration. The amount will be variable.

16. Labor

One miner and one mucker were employed during recent representative payroll period.

17. Equipment and Facilities.

All equipment used in operations to date has been rented.

No equipment or buildings on property at this time.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMA 21194
Metal or Mineral
Date Received 10-30-51
Amount $
Participation (Government %)

Name and address of applicant

H. A. Leatart
J. L. Robinson A partnership
J. R. Davison
1526 North Mariposa Ave
Los Angeles 27, Cal.

Date October 24,1951.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. OCT 30 2 11 PM '51

If you have already filed MF-100, give date filed herewith, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO-5)?

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

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.

H. A. Leatart
J. L. Robinson
J. R. Davison
A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24, 1951.
(Date)

Partner
(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—64067-2

1. (a) The property involved in the exploration project is a lode mining claim.

(b) The property is being operated under a lease, a copy of which is attached hereto.

(c) The legal description of the claim is "Red Rock No. 1" The location notice covering same was filed on July 15,1951 and is recorded in Vol. 63 of Mining Locations in the Recorders office of Inyo County, State of California. The immediate area in which the claim is located has not been surveyed, however, according to the U.S. Geological Survey map attached hereto it would be in Township 18 S, Range 44 E .

2. (a) Tungsten has been found on the property.

(b) No previous tungsten mining has been conducted in this area or vicinity. Outcroppings and float on the claim indicate a deposit of Shelite. The location to be explored lies on the slope of a hill measuring approximately 500 ft. from top to bottom. Preliminary explorations conducted by the applicant, consisting of a bench near the top of the hill 30 ft. long and 10 ft. deep, and another bench at bottom of hill 90 ft. long and 10 ft. deep, have exposed a body of tungsten ore that appears to extend the full distance between the benches, a distance of approximately 300 ft. In other words, explorations to date indicate a body of ore 90 ft. wide at the base, extending upward approximately 300 ft. and measuring 30 ft. at the crest.
Assays obtained to date are as follows;
A 100 pound sample of ore was submitted to United States Vanadium Co. at Bishop, Cal. for test purposes. This sample assayed 1.11% WO_3. See copy of U. S. Vanadium letter attached.
One Hundred tons of ore was sold and shipped to U.S.Vanadium Co. at Bishop, Cal. The shipment consisted of mine run surface ore, no attempt was made to sort or grade the material. U. S. Vanadium assay on the lot was .35 per cent WO_3. A sample from the same lot sent to us assayed .56 per cent WO_3. The matter is now in the hands of an umpire for adjudication.

3. (a) As stated in 2 (b) hereof, also as shown on the pencil sketch attached hereto, applicants have already performed certain explorations which consist of benches cut 10 ft. deep into the side hill of the property.
It is now proposed to progress this exploration work by extending these benches to a depth of 20 ft. and to cut a third bench midway between the top and bottom benches.

The estimated cost of this additional exploration is $24,000.00.

(b) The estimated time required to complete the project is three months.

4. See sketch attached. The benches or cuts shown thereon have, for the most part, been made in tungsten bearing ore, that is, a large portion of the material moved in making the cuts contained tungsten in varying quantities and the indications are that this will continue as the benches are extended into the hill.

5. There are no existing buildings or facilities on the property.

6. No buildings or facilities will be installed or erected during the exploration period.

7. Operating equipment to be purchased and charged as a cost of the project.

1 Air Compressor 210 cu.ft.cap.	$5500.00
1 Bulldozer on tracks, wide gauge	5800.00
1 Skip loader on tracks ½ yd. cap.	6250.00
2 Jack hammers	600.00
150 ft. air hose	100.00
Drill steels	50.00
Carbide bit heads	150.00

8. Payroll

Supervisor (part time only)	$2.50 per hour
Miner	2.00 " "
Mucker	1.75 " "

9. Estimated cost of materials, supplies, etc.

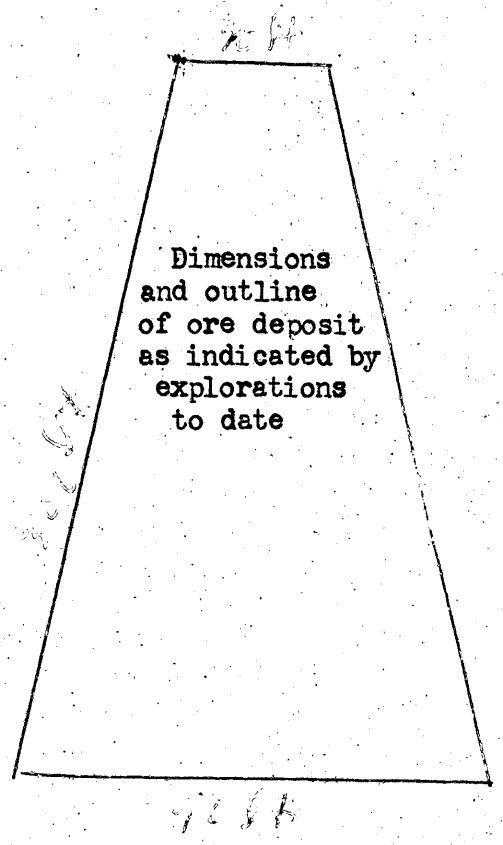
Powder, fuse and caps	$1,000.00
Motor fuel (power)	400.00
Assaying	30.00
Engineering	300.00
Accounting	100.00
Water	100.00
Tool & equipment - repairs & upkeep	100.00
Insurance - State compensation & public liability	200.00
Rental of shelter for supplies & equipment	150.00
Advance royalty payments	600.00

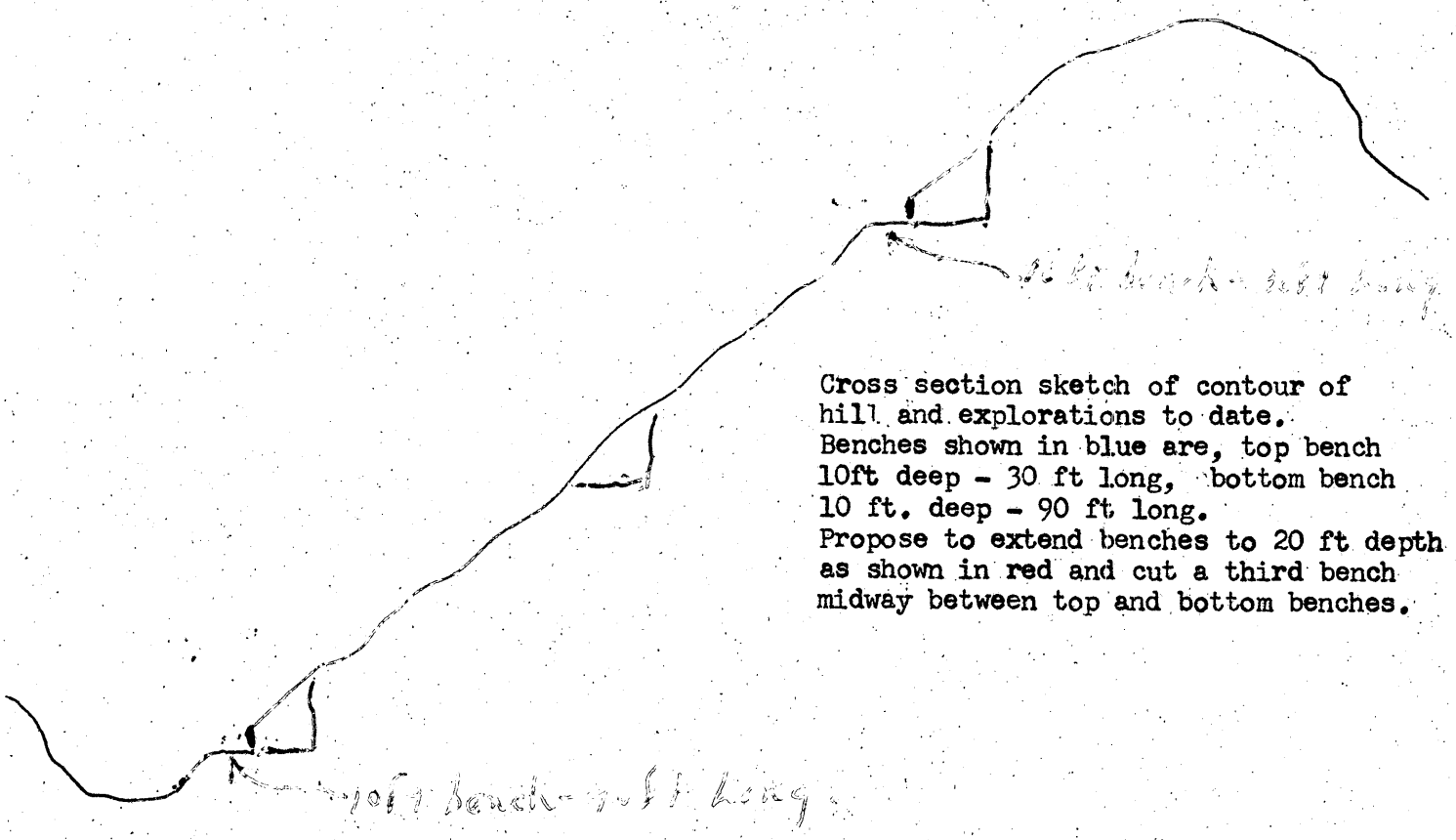
10. (a) Applicants are prepared to invest $6,000.00 in the proposed project.

(b) The above amount is sufficient to pay applicants part of the project in accordance with regulation M-O-5.

11. No conditions or circumstances regarding the project that are not brought out in the foregoing questions.

CREST OF HILL





Cross section sketch of contour of hill and explorations to date. Benches shown in blue are, top bench 10ft deep - 30 ft long, bottom bench 10 ft. deep - 90 ft long. Propose to extend benches to 20 ft depth as shown in red and cut a third bench midway between top and bottom benches.

COPY

LEASE

THIS AGREEMENT made and entered into at Trona, California, this 22nd day of September 1951, by and between Max Barginski and Leo V. Howell, hereinafter referred to as Lessors, and J. R. Davison, J. L. Robinson and H. A. Leatart, hereinafter referred to as Lessees.

WITNESSETH:

That the Lessors in consideration of the rents, royalties, covements and agreements hereinafter reserved and expressed to be paid and performed by the Lessees, hereby lease unto the Lessees the following described mining claims for the purpose of mining Tungsten and other minerals, to wit

Red Rock Lode Mining Claims 1,2,3,4 and 5 situated in the Wildrose Mining District in the County of Inyo, State of California, and so recorded in the records of the County Recorder of said County.

The term of this lease shall be for a period of Five (5) years from date hereof and as long as thereafter the Lessees shall continue to mine and remove Tungsten and or other minerals from the premises in commercial quantities.

The Lessees agree to keep correct accounts of ore mined and sold and to pay Lessors a royalty of ten (10) per cent on all ore sold, Said royalty to be paid on the price received at the mill or stock pile, less the cost of transporting same from mine to mill or stock pile.

Lessees agree to pay to Lessors all royalties due Lessors from sale of ore in any calendar month upon the fifteenth (15th) day of the month following. Royalties shall be deemed to be due to Lessors when Lessees have received mill or stock pile payments. In the event Lessors operate their own mill royalties shall be paid upon the net returns after deductions for customary transportation and milling costs.

In the event that the royalties realized by Lessors in any calendar month do not equal Two Hundred Dollars ($200.00) then the Lessees shall pay to the Lessors an advance royalty equal to the said difference between the amount actually realized and the above said Two Hundred Dollars. All advance royalties so paid shall be deducted from royalties when and if paid in subsequent months.

The Lessees agree to enter upon the claims and to work the same in a manner necessary to good and economical mining.

The Lessors, or their agents with authority in writing, shall have the right at any ~~time~~ and all reasonable times and places to inspect the books and records of the Lessees concerning the tonnage removed from said described claims.

It is further understood and agreed by and between the parties hereto that the Lessees shall have a right of way over thedescribed claims and any and all other claims owned by Lessors for ingress to and egress from claims under lease.

The Lessees agree that no obligations are to be incurred that will subject the claims to labor, material or other liens of any kind on the part of the Lessors.

Lessees agree to keep a detailed record of development work done and furnish a report of same to Lessors. Said work to be included as annual labor on said claims.

The Lessees shall have the right to cancel this lease upon thirty (30) days written notice to Lessors and tomremove all portable property.

In the event of the Lessors taking exception to the manner in which above mentioned claims are operated, or to other alleged violations of this agreement, Lessors may serve upu upon Lessees by registered mail written notice addressed to Lessees at said Lessees designated place of business, setting forth said violations. If said allegations are to be found correct then said Lessees shall correct the practices complained of within thirty (30) days from date of said notice or this agreement shall be cancelled, and the claims returned to Lessors with the exception of portable property whichshall be retained by Lessees.

Lessees agree not to assign this lease without the written consent of said Lessors.

Each and every clause and covenant of this lease shall extend to the heirs, executors and administrators of all parties hereto.

In witness whereof the parties hereto have set their hands and seals this 22nd day of September, 1951.

(signed) Max Barginski -- Lessor
Leo V. HOwell -- Lessor
J. R. Davison -- Lessee
J. L. Robinson -- Lessee
H. A. Leatart -- Lessee

State of California)
County of San Bernardino) ss

On this 22nd day of September 1951 before me personallya appeared Max Barginski, Leo V. Howell, J. R. Davison, J. L. Robinson and H. A. Leatart, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they xexecuted the same as their free act and deed.

In witness whereof I have hereunto set my hand and Notarial seal this 22nd day of September 1951.

Olga Cole
Notary Public
In and for the County of San Bernardino,
State of California
My Commission expires Oct 9, 1954.

C O P Y

UNITED STATES VANADIUM COMPANY

A division of Union Carbide and Carbon Corporation
Bishop, California

August 30,1951.

Mr. H. A. Leatart
3030 West Sixth Street.
Los Angeles, California.

Dear Mr. Leatart:

Your sample of tungsten ore has been assayed in our laboratory . The result is ;

WO3 - - - - - - - - - - 1.11%
Mo - - - - - - - - - 0.02%

Very truly yours

United States Vanadium Co.

signed Wm. H. Kohler
Mining Engineer.

WHK;me

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dmsu 2194
Metal or Mineral
Date Received 10-30-51
Amount $
Participation (Government %)

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
Oct 30 2 10 PM '51

H. A. Leatart
J. L. Robinson A partnership
J. R. Davison
1526 North Mariposa Ave
Los Angeles 27, Cal.

Name and address of applicant

Date October 24,1951.

If you have already filed MF-100, give date filed herewith, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

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.

H. A. Leatart
J. L. Robinson
J. R. Davison
A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24, 1951
(Date)

Partner
(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—64067-2

1. (a) The property involved in the exploration project is a lode mining claim.

(b) The property is being operated under a lease, a copy of which is attached hereto.

(c) The legal description of the claim is "Red Rock No. 1" The location notice covering same was filed on July 15,1951 and is recorded in Vol. 63 of Mining Locations in the Recorders office of Inyo County, State of California. The immediate area in which the claim is located has not been surveyed, however, according to the U.S. Geological Survey map attached hereto it would be in Township 18 S, Range 44 E .

2. (a) Tungsten has been found on the property.

(b) No previous tungsten mining has been conducted in this area or vicinity. Outcroppings and float on the claim indicate a deposit of Shelite. The location to be explored lies on the slope of a hill measuring approximately 500 ft. from top to bottom. Preliminary explorations conducted by the applicant, consisting of a bench near the top of the hill 30 ft. long and 10 ft. deep, and another bench at bottom of hill 90 ft. long and 10 ft. deep, have exposed a body of tungsten ore that appears to extend the full distance between the benches, a distance of approximately 300 ft. In other words, explorations to date indicate a body of ore 90 ft. wide at the base, extending upward approximately 300 ft. and measuring 30 ft. at the crest.q
Assays obtained to date are as follows;
A 100 pound sample of ore was submitted to United States Vanadium Co. at Bishop, Cal. for test purposes. This sample assayed 1.11% WO3. See copy of U. S. Vanadium letter attached.
One Hundred tons of ore was sold and shipped to U.S.Vanadium Co. at Bishop, Cal. The shipment consisted of mine run surface ore, no attempt was made to sort or grade the material. U. S. Vanadium assay on the lot was .35 per cent WO3. A sample from the same lot sent to us assayed .56 per cent WO3. The matter is now in the hands of an umpire for adjudication.

3. (a) As stated in 2 (b) hereof, also as shown on the pencil sketch attached hereto, applicants have already performed certain explorations which consist of benches cut 10 ft. deep into the side hill of the property.
It is now proposed to progress this exploration work by extending these benches to a depth of 20 ft. and to cut a third bench midway between the top and bottom benches.

The estimated cost of this additional exploration is $24,000.00.

(b) The estimated time required to complete the project is three months.

4. See sketch attached. The benches or cuts shown thereon have, for the most part, been made in tungsten bearing ore, that is, a large portion of the material moved in making the cuts contained tungsten in varying quantities and the indications are that this will continue as the benches are extended into the hill.

5. There are no existing buildings or facilities on the property.

6. No buildings or facilities will be installed or erected during the exploration period.

7. Operating equipment to be purchased and charged as a cost of the project.

1 Air Compressor 210 cu.ft.cap.	$5500.00
1 Bulldozer on tracks, wide gauge	5800.00
1 Skip loader on tracks ½ yd. cap.	6250.00
2 Jack hammers	600.00
150 ft. air hose	100.00
Drill steels	50.00
Carbide bit heads	150.00

8. Payroll

Supervisor (part time only)	$2.50 per hour
Miner	2.00 " "
Mucker	1.75 " "

9. Estimated cost of materials, supplies, etc.

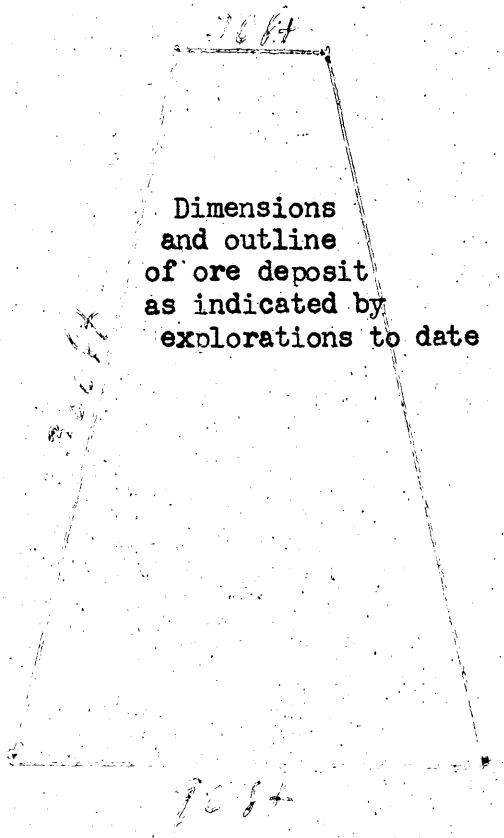
Powder, fuse and caps	$1,000.00
Motor fuel (power)	400.00
Assaying	30.00
Engineering	300.00
Accounting	100.00
Water	100.00
Tool & equipment - repairs & upkeep	100.00
Insurance - State compensation & public liability	200.00
Rental of shelter for supplies & equipment	150.00
Advance royalty payments	600.00

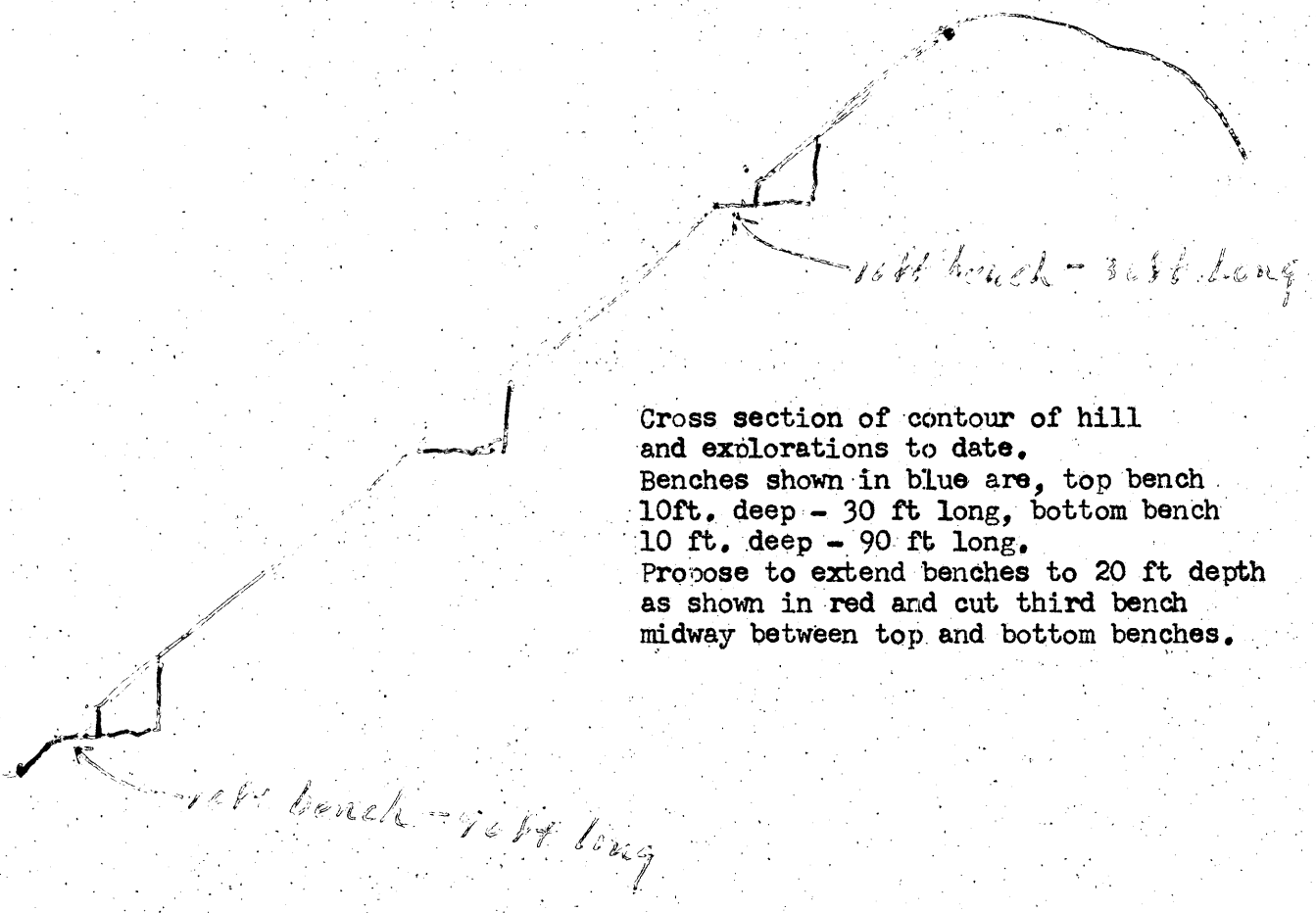
10. (a) Applicants are prepared to invest $6,000.00 in the proposed project.

(b) The above amount is sufficient to pay applicants part of the project in accordance with regulation M-0-5.

11. No conditions or circumstances regarding the project that are not brought out in the foregoing questions.

CREST OF HILL





Cross section of contour of hill
and explorations to date.
Benches shown in blue are, top bench
10ft. deep - 30 ft long, bottom bench
10 ft. deep - 90 ft long.
Propose to extend benches to 20 ft depth
as shown in red and cut third bench
midway between top and bottom benches.

COPY

LEASE

THIS AGREEMENT made and entered into at Trona, California, this 22nd day of September 1951, by and between Max Barginski and Leo V. Howell, hereinafter referred to as Lessors, and J. R. Davison, J. L. Robinson and H. A. Leatart, hereinafter referred to as Lessees.

WITNESSETH:

That the Lessors in consideration of the rents, royalties, covenants and agreements hereinafter reserved and expressed to be paid and performed by the Lessees, hereby lease unto the Lessees the following described mining claims for the purpose of mining Tungsten and other minerals, to wit

Red Rock Lode Mining Claims 1,2,3,4 and 5 situated in the Wildrose Mining District in the County of Inyo, State of California, and so recorded in the records of the County Recorder of said County.

The term of this lease shall be for a period of Five (5) years from date hereof and as long as thereafter the Lessees shall continue to mine and remove Tungsten and or other minerals from the premises in commercial quantities.

The Lessees agree to keep correct accounts of ore mined and sold and to pay Lessors a royalty of ten (10) per cent on all ore sold, Said royalty to be paid on the price received at the mill or stock pile, less the cost of transporting same from mine to mill or stock pile.

Lessees agree to pay to Lessors all royalties due Lessors from sale of ore in any calendar month upon the fifteenth (15th) day of the month following. Royalties shall be deemed to be due to Lessors when Lessees have received mill or stock pile payments. In the event Lessors operate their own mill royalties shall be paid upon the net returns after deductions for customary transportation and milling costs.

In the event that the royalties realized by Lessors in any calendar month do not equal Two Hundred Dollars ($200.00) then the Lessees shall pay to the Lessors an advance royalty equal to the said difference between the amount actually realized and the above said Two Hundred Dollars. All advance royalties so paid shall be deducted from royalties when and if paid in subsequent months.

The Lessees agree to enter upon the claims and to work the same in a manner necessary to good and economical mining.

The Lessors, or their agents with authority in writing, shall have the right at any ~~time~~ and all reasonable times and places to inspect the books and records of the Lessees concerning the tonnage removed from said described claims.

It is further understood and agreed by and between the parties hereto that the Lessees shall have a right of way over thedescribed claims and any and all other claims owned by Lessors for ingress to and egress from claims under lease.

The Lessees agree that no obligations are to be incurred that will subject the claims to labor, material or other liens of any kind on the part of the Lessors.

Lessees agree to keep a detailed record of development work done and furnish a report of same to Lessors. Said work to be included as annual labor on said claims.

The Lessees shall have the right to cancel this lease upon thirty (30) days written notice to Lessors and tomremove all portable property.

In the event of the Lessors taking exception to the manner in which above mentioned claims are operated, or to other alleged violations of this agreement, Lessors may serve upon Lessees by registered mail written notice addressed to Lessees at said Lessees designated place of business, setting forth said violations. If said allegations are to be found correct then said Lessees shall correct the practices complained of within thirty (30) days from date of said notice or this agreement shall be cancelled, and the claims returned to Lessors with the exception of portable property whichshall be retained by Lessees.

Lessees agree not to assign this lease without the written consent of said Lessors.

Each and every clause and covenant of this lease shall extend to the heirs, executors and administrators of all parties hereto.

In witness whereof the parties hereto have set their hands and seals this 22nd day of September, 1951.

(signed) Max Barginski -- Lessor
Leo V. HOwell -- Lessor
J. R. Davison -- Lessee
J. L. Robinson -- Lessee
H. A. Leatart -- Lessee

State of California)
County of San Bernardino) ss

On this 22nd day of September 1951 before me personallya appeared Max Barginski, Leo V. Howell, J. R. Davison, J. L. Robinson and H. A. Leatart, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they xexecuted the same as their free act and deed.

In witness whereof I have hereunto set my hand and Notarial seal this 22nd day of September 1951.

Olga Cole
Notary Public
In and for the County of San Bernardino,
State of California
My Commission expires Oct 9, 1954.

C O P Y

UNITED STATES VANADIUM COMPANY

A division of Union Carbide and Carbon Corporation
Bichop, California

August 30,1951.

Mr. H. A. Leatart
3030 West Sixth Street.
Los Angeles, California.

Dear Mr. Leatart:

Your sample of tungsten ore has been assayed in our laboratory . The result is ;

WO3 - - - - - - - - - -	1.11%
Mo - - - - - - - - - -	0.02%

Very truly yours

United States Vanadium Co.

signed Wm. H. Kohler
Mining Engineer.

WHK;me

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 2194

Date received 10-30-51

H. A. Leatart
J. L. Robinson
J. R. Davison

A partnership

1526 North Mariposa Ave.
Los Angeles 27, Cal.

Name and address of applicant

Date October 24,1951.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. OCT 2 11 PM '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 _____
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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
H. A. Leatart 1526 North Mariposa Ave. Los Angeles 27, Cal.	Partner	None	$20,000	None	None	None	None
J. L. Robinson Trona, California	Partner	None	$20,000	None	None	None	None
J. R. Davison 2020 South Grand Ave. Los Angeles 7, Cal.	Partner	None	$50,000	None	None	None	None
	Total	None	x x x x x	None	None	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	$ None	$ None	$ None	None	None
Preferred stock	$ None	$ None	$ None	None	None

*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.)	None	None	None	None	See attached statement
2. Quantity of product processed (specify unit of measure and type of process)	None	None	None	None	None
3. Quantity and grade of product sold or shipped (specify units of measure)	None	None	None	None	See attached statement

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.

(*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)	35,000 minimum	One half to one per cent	$31.50 to $63.00	approx 80%	$2.00
Indicated (probable)		W03			

(*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.

H. A. Leatart
J. L. Robinson
J. R. Davison A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24,1951
(Date)

Partner
(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

1. Materials produced

(a) The chief mine product is Tungsten ore.

(b) There are no byproducts.

2. Name and type of mine.

The name of the Mine is "Red Rock No. 1 "

It is an open pit type of mine

(a) Shafts -- none

(b) Drifts and crosscuts -- none

(c) Tunnels or adits -- none

(d) Mine openings - The exploration work to date consists of an open cut or bench near the top of a hill approximately 30ft long and 10 ft. deep. Near the bottom of the hill a bench has been cut into the side of the hill approximately 90ft. long and 10ft. deep. The distance between benches is approximately 300ft. The slope of the hill upon which exploration has been conducted is about 30°. Exploration work at the top and bottom benches has exposed a good body of ore, and indications are that the ore extends the full intervening space between benches. The nature of the ore deposit will lend itself to open pit operations. There should be no pumping problems. The estimated productive capacity of the deposit is 35,000 tons.

3. Location, distance, etc.

(a) Trona, California the nearest town and shipping point is 56 miles south of the property.

(b) Wildrose Mining District.

(c) The immediate area has not been surveyed. When done the property will be in Township 18S, Range 44E .

(d) Inyo County, State of California.

4. Operation of property

(a) Exploration work was conducted during the months of August and September 1951. Operations have been suspended for the present. The exploration work was conducted by the applicant.

(b) Applicant is operating property as a lessee.

5. The property is not yet in production.

It is estimated that additional exploration work will require about ninety days. When this explorationh has been completed production can be started immediately.

6. (a) The applicants have had no mining experience except that gained during the past six months in examining and exploring various mines and mineral deposits. The business experience of H. A. Leatart consists of forty years of common carrier and commercial traffic work, for the past fifteen years Traffic Manager of American Potash & Chemical Corp. at Trona, Cal. That of J. L. Robinson, 45 years railroad operation, past 20 years General Manager and President of the Trona Railway, Trona, Cal. That of J. R. Davison twenty years as Pacific Coast representative Russell Mfg. Co. Los Angeles, Cal.

(b) The three above named parties have managed and will continue to manage the project, with the aid of an experienced miner in direct charge and supplemented from time to time by the counsel of and direction of a competent and experienced mining engineer.

7. History

(a) The property had not been explored previous to the exploration conducted by applicants during August and September 1951.

(b) The mining activities in this area have heretofore been for the extraction of gold and silver. This is the first tungsten mining operations conducted in the area.

(c) Mr. Don Hargrove, a mining engineer in the employ of the Newmont Exploration Co. Ltd. an international organization engaged in mining, visited the property on October 18,1951 for the purpose of examination and possible recommending same to his company as an investment. It is his advice that we continue the explorations already started. That is what we propose to do if Government assistance is granted.

A copy of Mr. Hargrove's letter, written after he visited the property and indicating his interest in the project, is attached hereto.

C O P Y

NEWMONT EXPLORATION LIMITED

Goldfield, Nev.
October 19,1951.

Mr. H. A. Leatart
3030 W. 8th Ave.
Los Angeles, Calif.

Dear Mr. Leatart:

This letter is to confirm our conversation of October 18th at the Red Rock claims. My understanding of the agreement was that you and Mr. Robinson and Mr. Davison are to more thoroughly expose the zone you are now working on. Then, if and when you decide that sufficient ore has been exposed to warrant a further examination, you will contact us. I am recommending that a much more thorough examination of the whole area be made if your proposed work shows substantial amounts of commercial ore.

Thank you for your kindness and hospitality. I had an interesting and enjoyable day.

Kindest regards

Sincerely yours

signed Don Hargrove

DH:rd

1. As a result of exploration operations during the months of August and September 1951, approximately 150 short tons of ore was mined.

3. One hundred short tons of ore was sold and shipped to the United States Vanadium Co. at Bishop, Cal. The shipment consisted for the most part of mine run surface ore, no attempt being made to grade or sort the material. U.S.Vanadium assay on the lot was .35 per cent V_2O_5. A sample of the same lot sent to us assayed .56 per cent V_2O_5. The matter is now in the hands of an umpire for adjudication.

11. If the exploration work proposed in this application is completed and the results justify proceeding with the production of ore, a minimum production of 1000 tons per month is contemplated. No estimated maximum has been set.

12. Ore Reserves.

(a) The ore deposit, from surrounding surface indications, is in the midst of a large ore bearing area. This area, in the past, has produced a large amount of gold. This is the first tungsten operation in the area. There are, so far as we have been able to determine, no available reports relative to the tungsten ore reserves in this locality.

(b) 1. The probable ore reserve consists of a hill slope, the area of which measures approximately 30 ft. at the top and 90 ft. atthe base, distance between approximately 300 ft. The depth is unknown, but will be determined in part thru the proposed exploration work.

13. To Trono, Col. the nearest shipping and supply point, the distance is 56 miles. Five miles of this is dirt and gravel road. The balance is paved road.

Residence point is six miles distant, all dirt and gravel road.

14. An ample supply of water is available throughout the year from springs located approximately eight miles from the property. The reported available flow is 20,000 gallons per day.

15. Power

Gasoline powered equipment will be used during exploration.

The amount will be variable.

16. Labor

One miner and one mucker were employed during recent representative payroll period.

17. Equipment and Facilities.

All equipment used in operations to date has been rented.

No equipment or buildings on property at this time.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMA 2194
Metal or Mineral
Date Received 10-30-51
Amount $
Participation (Government %)

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
Oct 30 2 10 PM '51

Name and address of applicant

H. A. Leatart
J. L. Robinson A partnership
J. R. Davison
11526 North Mariposa Ave
Los Angeles 27, Cal.

Date October 24,1951.

If you have already filed MF-100, give date filed herewith, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

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.

H. A. Leatart
J. L. Robinson
J. R. Davison
A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24, 1951
(Date)

Partner
(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—64067-2

1. (a) The property involved in the exploration project is a lode mining claim.

(b) The property is being operated under a lease, a copy of which is attached hereto.

(c) The legal description of the claim is "Red Rock No. 1" The location notice covering same was filed on July 15,1951 and is recorded in Vol. 63 of Mining Locations in the Recorders office of Inyo County, State of California. The immediate area in which the claim is located has not been surveyed, however, according to the U.S. Geological Survey map attached hereto it would be in Township 18 S, Range 44 E .

2. (a) Tungsten has been found on the property.

(b) No previous tungsten mining has been conducted in this area or vicinity. Outcroppings and float on the claim indicate a deposit of Shelite. The location to be explored lies on the slope of a hill measuring approximately 500 ft. from top to bottom. Preliminary explorations conducted by the applicant, consisting of a bench near the top of the hill 30 ft. long and 10 ft. deep, and another bench at bottom of hill 90 ft. long and 10 ft. deep, have exposed a body of tungsten ore that appears to extend the full distance between the benches, a distance of approximately 300 ft. In other words, explorations to date indicate a body of ore 90 ft. wide at the base, extending upward approximately 300 ft. and measuring 30 ft. at the crest.
Assays obtained to date are as follows;
A 100 pound sample of ore was submitted to United States Vanadium Co. at Bishop, Cal. for test purposes. This sample assayed 1.11% WO3. See copy of U. S. Vanadium letter attached.
One Hundred tons of ore was sold and shipped to U.S.Vanadium Co. at Bishop, Cal. The shipment consisted of mine run surface ore, no attempt was made to sort or grade the material. U. S. Vanadium assay on the lot was .35 per cent WO3. A sample from the same lot sent to us assayed .56 per cent WO3. The matter is now in the hands of an umpire for adjudication.

3. (a) As stated in 2 (b) hereof, also as shown on the pencil sketch attached hereto, applicants have already performed certain explorations which consist of benches cut 10 ft. deep into the side hill of the property.
It is now proposed to progress this exploration work by extending these benches to a depth of 20 ft. and to cut a third bench midway between the top and bottom benches.

The estimated cost of this additional exploration is $24,000.00.

(b) The estimated time required to complete the project is three months.

4. See sketch attached. The benches or cuts shown thereon have, for the most part, been made in tungsten bearing ore, that is, a large portion of the material moved in making the cuts contained tungsten in varying quantities and the indications are that this will continue as the benches are extended into the hill.

5. There are no existing buildings or facilities on the property.

6. No buildings or facilities will be installed or erected during the exploration period.

7. Operating equipment to be purchased and charged as a cost of the project.

1 Air Compressor 210 cu.ft.cap.	$5500.00
1 Bulldozer on tracks, wide gauge	5800.00
1 Skip loader on tracks ½ yd. cap.	6250.00
2 Jack hammers	600.00
150 ft. air hose	100.00
Drill steels	50.00
Carbide bit heads	150.00

8. Payroll

Supervisor (part time only)	$2.50 per hour
Miner	2.00 " "
Mucker	1.75 " "

9. Estimated cost of materials, supplies, etc.

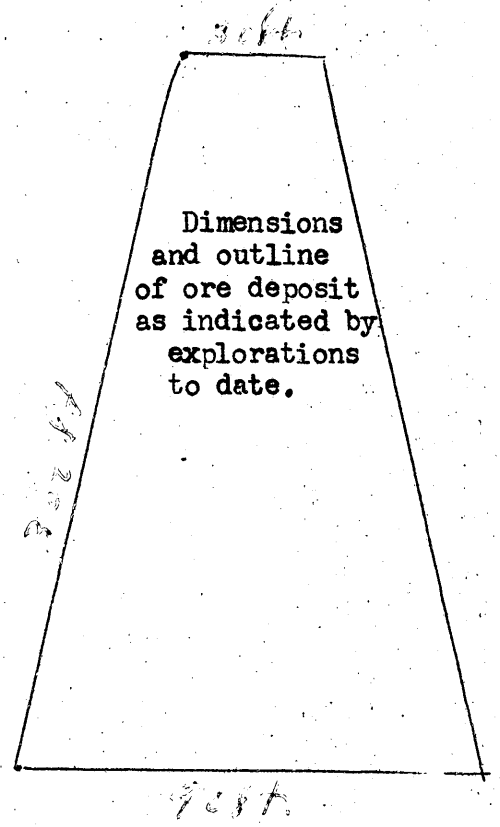
Powder, fuse and caps	$1,000.00
Motor fuel (power)	400.00
Assaying	30.00
Engineering	300.00
Accounting	100.00
Water	100.00
Tool & equipment - repairs & upkeep	100.00
Insurance - State compensation & public liability	200.00
Rental of shelter for supplies & equipment	150.00
Advance royalty payments	600.00

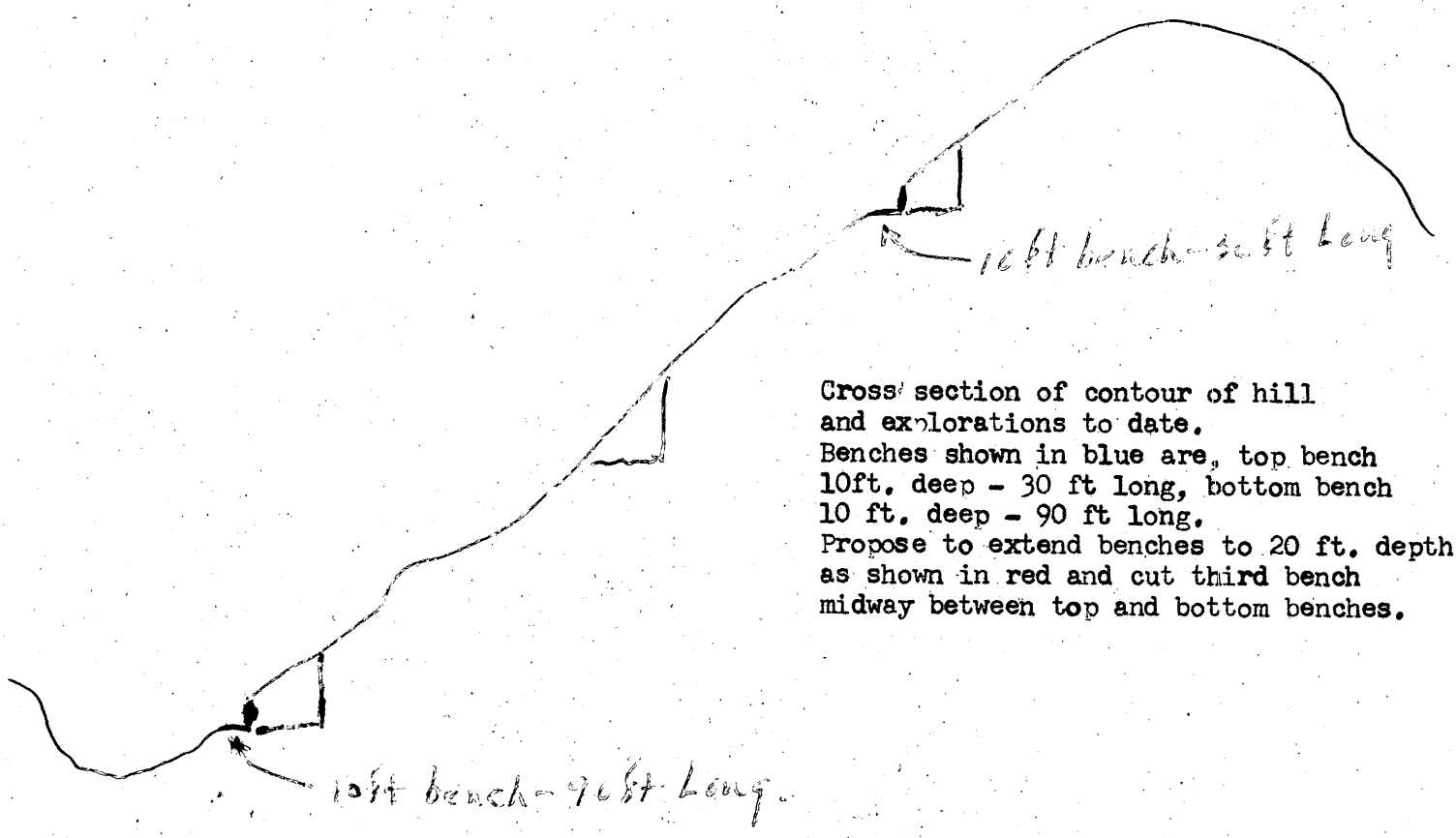
10. (a) Applicants are prepared to invest $6,000.00 in the proposed project.

(b) The above amount is sufficient to pay applicants part of the project in accordance with regulation M-0-5.

11. No conditions or circumstances regarding the project that are not brought out in the foregoing questions.

CREST OF HILL





Cross section of contour of hill
and explorations to date.
Benches shown in blue are, top bench
10ft. deep - 30 ft long, bottom bench
10 ft. deep - 90 ft long.
Propose to extend benches to 20 ft. depth
as shown in red and cut third bench
midway between top and bottom benches.

COPY

LEASE

THIS AGREEMENT made and entered into at Trona, California, this 22nd day of September 1951, by and between Max Barginski and Leo V. Howell, hereinafter referred to as Lessors, and J. R. Davison, J. L. Robinson and H. A. Leatart, hereinafter referred to as Lessees.

WITNESSETH:

That the Lessors in consideration of the rents, royalties, covenants and agreements hereinafter reserved and expressed to be paid and performed by the Lessees, hereby lease unto the Lessees the following described mining claims for the purpose of mining Tungsten and other minerals, to wit

Red Rock Lode Mining Claims 1,2,3,4 and 5 situated in the Wildrose Mining District in the County of Inyo, State of California, and so recorded in the records of the County Recorder of said County.

The term of this lease shall be for a period of Five (5) years from date hereof and as long as thereafter the Lessees shall continue to mine and remove Tungsten and or other minerals from the premises in commercial quantities.

The Lessees agree to keep correct accounts of ore mined and sold and to pay Lessors a royalty of ten (10) per cent on all ore sold, Said royalty to be paid on the price received at the mill or stock pile, less the cost of transporting same from mine to mill or stock pile.

Lessees agree to pay to Lessors all royalties due Lessors from sale of ore in any calendar month upon the fifteenth (15th) day of the month following. Royalties shall be deemed to be due to Lessors when Lessees have received mill or stock pile payments. In the event Lessors operate their own mill royalties shall be paid upon the net returns after deductions for customary transportation and milling costs.

In the event that the royalties realized by Lessors in any calendar month do not equal Two Hundred Dollars ($200.00) then the Lessees shall pay to the Lessors an advance royalty equal to the said difference between the amount actually realized and the above said Two Hundred Dollars. All advance royalties so paid shall be deducted from royalties when and if paid in subsequent months.

The Lessees agree to enter upon the claims and to work the same in a manner necessary to good and economical mining.

The Lessors, or their agents with authority in writing, shall have the right at any and all reasonable times and places to inspect the books and records of the Lessees concerning the tonnage removed from said described claims.

It is further understood and agreed by and between the parties hereto that the Lessees shall have a right of way over thedescribed claims and any and all other claims owned by Lessors for ingress to and egress from claims under lease.

The Lessees agree that no obligations are to be incurred that will subject the claims to labor, material or other liens of any kind on the part of the Lessors.

Lessees agree to keep a detailed record of development work done and furnish a report of same to Lessors. Said work to be included as annual labor on said claims.

C O P Y

L E A S E

THIS AGREEMENT

The Lessees shall have the right to cancel this lease upon thirty (30) days written notice to Lessors and tomremove all portable property.

In the event of the Lessors taking exception to the manner in which above mentioned claims are operated, or to other alleged violations of this agreement, Lessors may serve up upon Lessees by registered mail written notice addressed to Lessees at said Lessees designated place of business, setting forth said violations. If said allegations are to be found correct then said Lessees shall correct the practices complained of within thirty (30) days from date of said notice or this agreement shall be cancelled, and the claims returned to Lessors with the exception of portable property whichshall be retained by Lessees.

Lessees agree not to assign this lease without the written consent of said Lessors.

Each and every clause and covenant of this lease shall extend to the heirs, executors and administrators of all parties hereto.

In witness whereof the parties hereto have set their hands and seals this 22nd day of September, 1951.

(signed) Max Barginski -- Lessor
Leo V. HOwell -- Lessor
J. R. Davison -- Lessee
J. L. Robinson -- Lessee
H. A. Leatart -- Lessee

State of California)
County of San Bernardino) ss

On this 22nd day of September 1951 before me personallys appeared Max Barginski, Leo V. Howell, J. R. Davison, J. L. Robinson and H. A. Leatart, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they rexecuted the same as their free act and deed.

In witness whereof I have hereunto set my hand and Notarial seal this 22nd day of September 1951.

Olga Cole
Notary Public
In and for the County of San Bernardino,
State of California
My Commission expires Oct 9, 1954.

C O P Y

UNITED STATES VANADIUM COMPANY

A division of Union Carbide and Carbon Corporation
Bishop, California

August 30,1951.

Mr. H. A. Leatart
3030 West Sixth Street.
Los Angeles, California.

Dear Mr. Leatart:

Your sample of tungsten ore has been assayed in our laboratory . The result is ;

WO3 - - - - - - - - - - 1.11%
Mo - - - - - - - - - - 0.02%

Very truly yours

United States Vanadium Co.

signed Wm. H. Kohler
Mining Engineer.

WHK;me

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. dmr 2194

Date received 10-30-51

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C. OCT 30 2 31 PM 1951

H. A. Leatart
J. L. Robinson
J. R. Davison

A partnership

1526 North Mariposa Ave
Los Angeles 27, Cal.

Name and address of applicant

Date October 24,1951.

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 _____
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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
H. A. Leatert 1526 North Mariposa Ave. Los Angeles 27, Cal.	Partner	none	20,000	none	none	none	none
J. L. Robinson Trona, Cal.	Partner	none	20,000	none	none	none	none
J. R. Davison 2020 South Grand Ave Los Angeles7, Cal.	Partner	none	50,000	none	none	none	none
	Total	none	x x x x x	none	none	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	$ none	$ none	$ none	none	none
Preferred stock	$ none	$ none	$ none	none	none

*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.)	none	none	none	none	see attached statement
2. Quantity of product processed (specify unit of measure and type of process)	none	none	none	none	none
3. Quantity and grade of product sold or shipped (specify units of measure)	none	none	none	none	see attached statement

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.

(*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)	35,000 minimum	one half to one per cent	$31.50 to $63.00	approx 80%	$2.00

W03

(*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.

H. A. Leatart
J. L. Robinson
J. R. Davison A partnership
(Name of company)

By H. A. Leatart
(Signature of authorized official)

October 24,1951
(Date)

Partner
(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

1. Materials produced

(a) The chief mine product is Tungsten ore.

(b) There are no byproducts.

2. Name and type of mine.

The name of the Mine is "Red Rock No. 1 "

It is an open pit type of mine

(a) Shafts -- none

(b) Drifts and crosscuts -- none

(c) Tunnels or adits -- none

(d) Mine openings - The exploration work to date consists of an open cut or bench near the top of a hill approximately 30ft long and 10 ft. deep. Near the bottom of the hill a bench has been cut into the side of the hill approximately 90ft. long and 10ft. deep. The distance between benches is approximately 300ft. The slope of the hill upon which exploration has been conducted is about 30°. Exploration work at the top and bottom benches has exposed a good body of ore, and indications are that the ore extends the full intervening space between benches. The nature of the ore deposit will lend itself to open pit operations. There should be no pumping problems. The estimated productive capacity of the deposit is 35,000 tons.

3. Location, distance, etd.

(a) Trona, California the nearest town and shipping point is 56 miles south of the property.

(b) Wildrose Mining District.

(c) The immediate area has not been surveyed. When done the property will be in Township 18S, Range 44E .

(d) Inyo County, State of California.

4. Operation of property

(a) Exploration work was conducted during the months of August and September 1951. Operations have been suspended for the present. The exploration work was conducted by the applicant.

(b) Applicant is operating property as a lessee.

5. The property is not yet in production.

It is estimated that additional exploration work will require about ninety days. When this explorationh has been completed production can be started immediately.

6. (a) The applicants have had no mining experience except that gained during the past six months in examining and exploring various mines and mineral deposits. The business experience of H. A. Leatart consists of forty years of common carrier and commercial traffic work, for the past fifteen years Traffic Manager of American Potash & Chemical Corp. at Trona, Cal. That of J. L. Robinson, 45 years railroad operation, past 20 years General Manager and President of the Trona Railway, Trona, Cal. That of J. R. Davison twenty years as Pacific Coast representative Russell Mfg. Co. Los Angeles, Cal.

(b) The three above named parties have managed and will continue to manage the project, with the aid of an experienced miner in direct charge and supplemented from time to time by the counsel of and direction of a competent and experienced mining engineer.

7. History

(a) The property had not been explored previous to the exploration conducted by applicants during August and September 1951.

(b) The mining activities in this area have heretofore been for the extraction of gold and silver. This is the first tungsten mining operations conducted in the area.

(c) Mr. Don Hargrove, a mining engineer in the employ of the Newmont Exploration Co. Ltd. an international organization engaged in mining, visited the property on October 18,1951 for the purpose of examination and possible recommending same to his company as an investment. It is his advice that we continue the explorations already started. That is what we propose to do if Government assistance is granted.

A copy of Mr. Hargrove's letter, written after he visited the property and indicating his interest in the project, is attached hereto.

C O P Y

NEWMONT EXPLORATION LIMITED

Goldfield, Nev.
October 19,1951.

Mr. H. A. Leatart
3030 W. 6th Ave.
Los Angeles, Calif.

Dear Mr. Leatart:

This letter is to confirm our conversation of October 18th at the Red Rock claims. My understanding of the agreement was that you and Mr. Robinson and Mr. Davison are to more thoroughly expose the zone you are now working on. Then, if and when you decide that sufficient ore has been exposed to warrent a further examination, you will contact us. I am recommending that a much more thorough examination of the whole area be made if your proposed work shows substantial amounts of commercial ore.

Thank you for your kindness and hospitality, I had an interesting and enjoyable day.

Kindest regards

Sincerely yours

signed Don Hargrove

DH:rd

1. As a result of exploration operations during the months of August and September 1951, approximately 150 short tons of ore was mined.

3. One hundred short tons of ore was sold and shipped to the United States Vanadium Co. at Bishop, Cal. The shipment consisted for the most part of mine run surface ore, no attempt being made to grade or sort the material. U.S.Vanadium assay on the lot was .35 per cent WO_3. A sample of the same lot sent to us assayed .56 per cent WO_3. The matter is now in the hands of an umpire for adjudication.

11. If the exploration work proposed in this application is completed and the results justify proceeding with the production of ore, a minimum production of 1000 tons per month is contemplated. No estimated maximum has been set.

12. Ore Reserves.

(a) The ore deposit, from surrounding surface indications, is in the midst of a large ore bearing area. This area, in the past, has produced a large amount of gold. This is the first tungsten operation in the area. There are, so far as we have been able to determine, no available reports relative to the tungsten ore reserves in this locality.

(b) 1. The probable ore reserve consists of a hill slope, the area of which measures approximately 30 ft. at the top and 90 ft. atthe base, distance between approximately 300 ft. The depth is unknown, but will be determined in part thru the proposed exploration work.

13. To Trona, Cal. the nearest shipping and supply point, the distance is 56 miles. Five miles of this is dirt and gravel road. The balance is paved road.

Residence point is six miles distant, all dirt and gravel road.

14. An ample supply of water is available throughout the year from springs located approximately eight miles from the property. The reported available flow is 20,000 gallons per day.

15. Power

Gasoline powered equipment will be used during exploration. The amount will be variable.

16. Labor

One miner and one mucker were employed during recent representative payroll period.

17. Equipment and Facilities.

All equipment used in operations to date has been rented.

No equipment or buildings on property at this time.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Inyo, State of California, described in a certain Exploration Project Contract dated October 24, 1951, between H. A. Leatart, J. L. Robinson and J. R. Davison, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated September 22, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 24 day of October, 1951

Leo V. Howell

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Max Barginski

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Inyo, State of California, described in a certain Exploration Project Contract dated October 24, 1951, between H. A. Lestart, J. L. Robinson and J. R. Davison, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated September 22, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 24 day of October, 1951

Leo T. Flowers

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Max Barginski

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Inyo, State of California, described in a certain Exploration Project Contract dated October 24, 1951, between H. A. Lestart, J. L. Robinson and J. R. Davison, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated September 22, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 24 day of October, 1951.

Leo V. Howell

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Max Barginski

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Inyo, State of California, described in a certain Exploration Project Contract dated October 24, 1951, between H. A. Lastart, J. L. Robinson and J. R. Davison, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated September 22, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

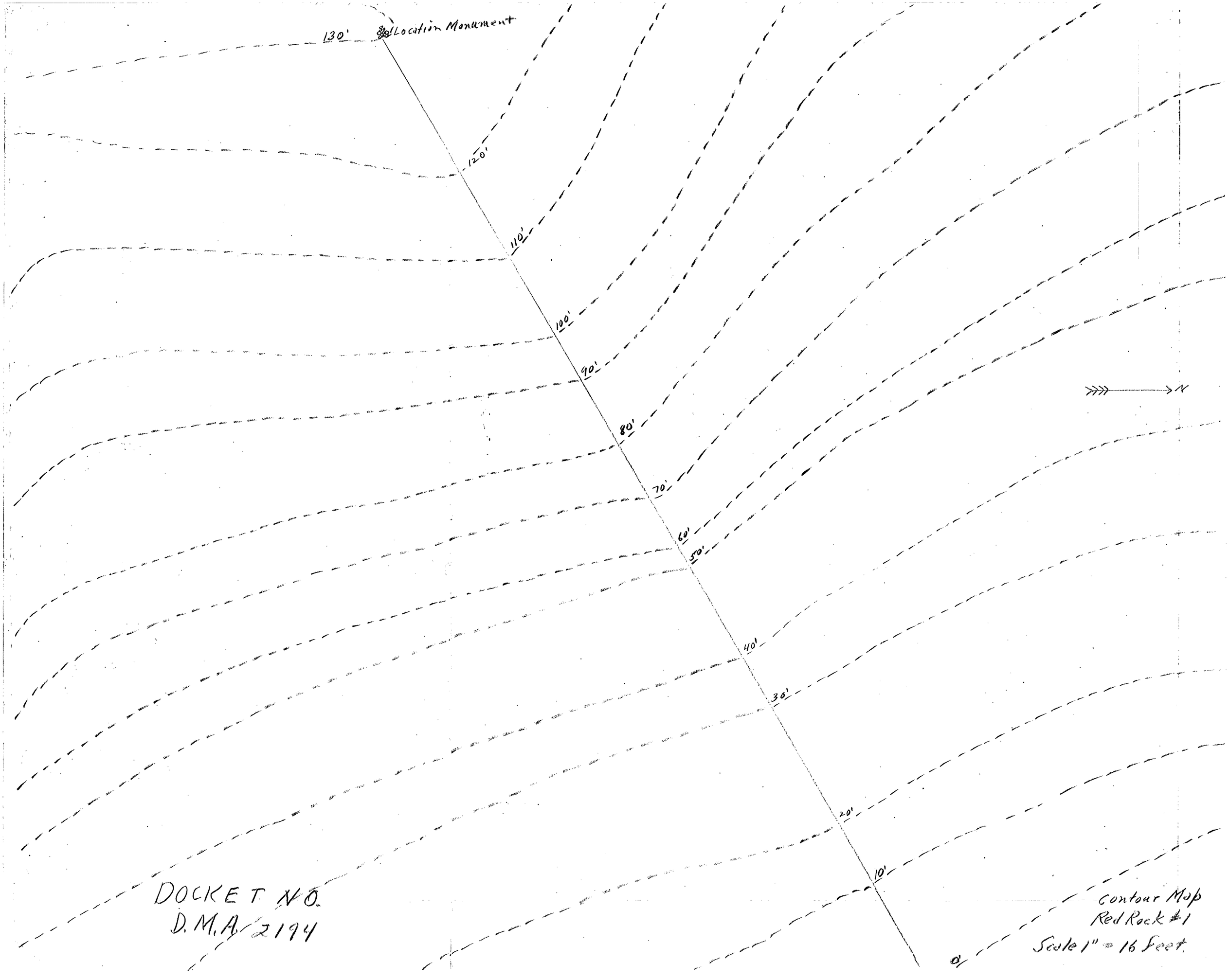
This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 24 day of October, 1951

Leo V. Howell

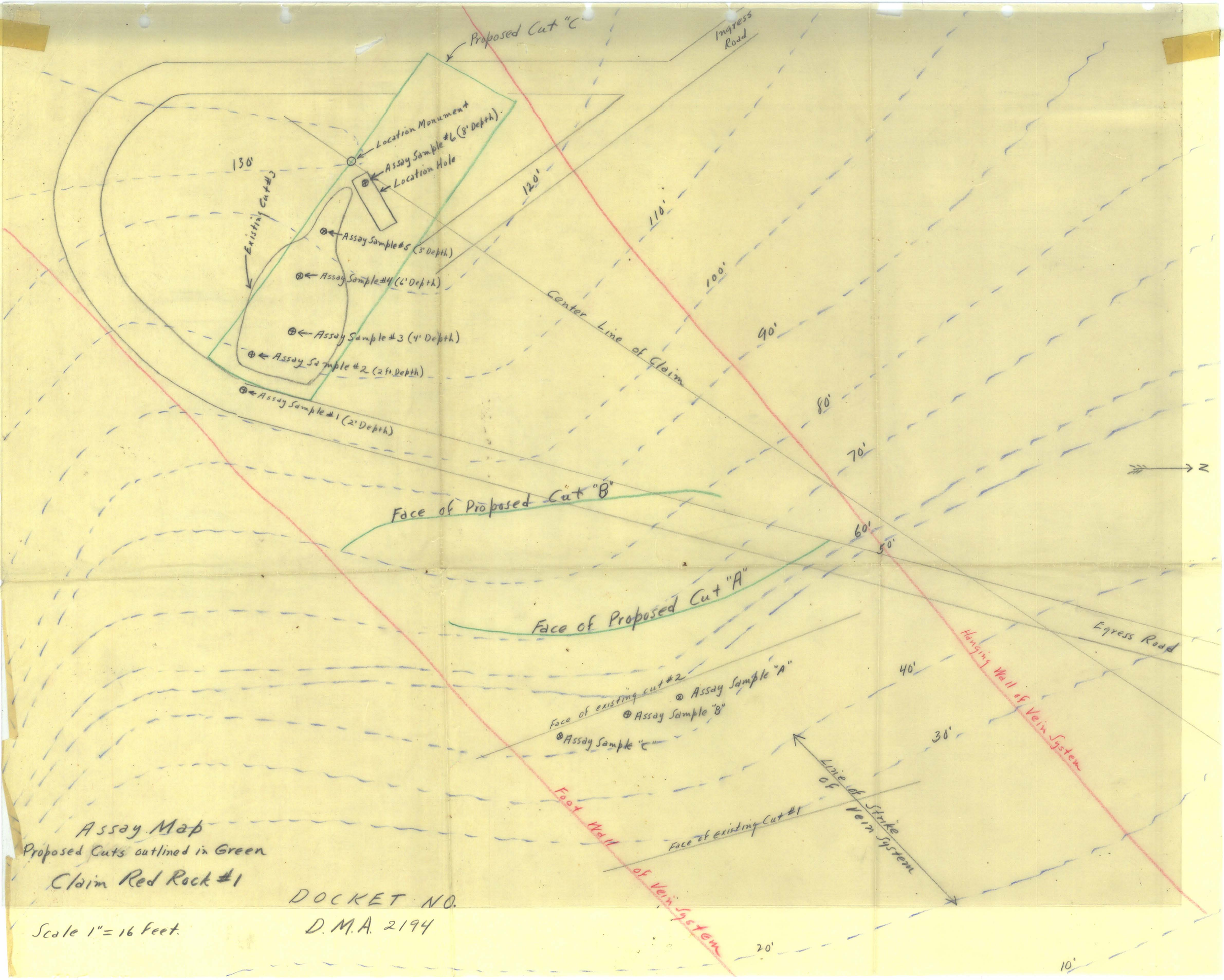
U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Max Barginski



DOCKET NO.
D.M.A. 2194

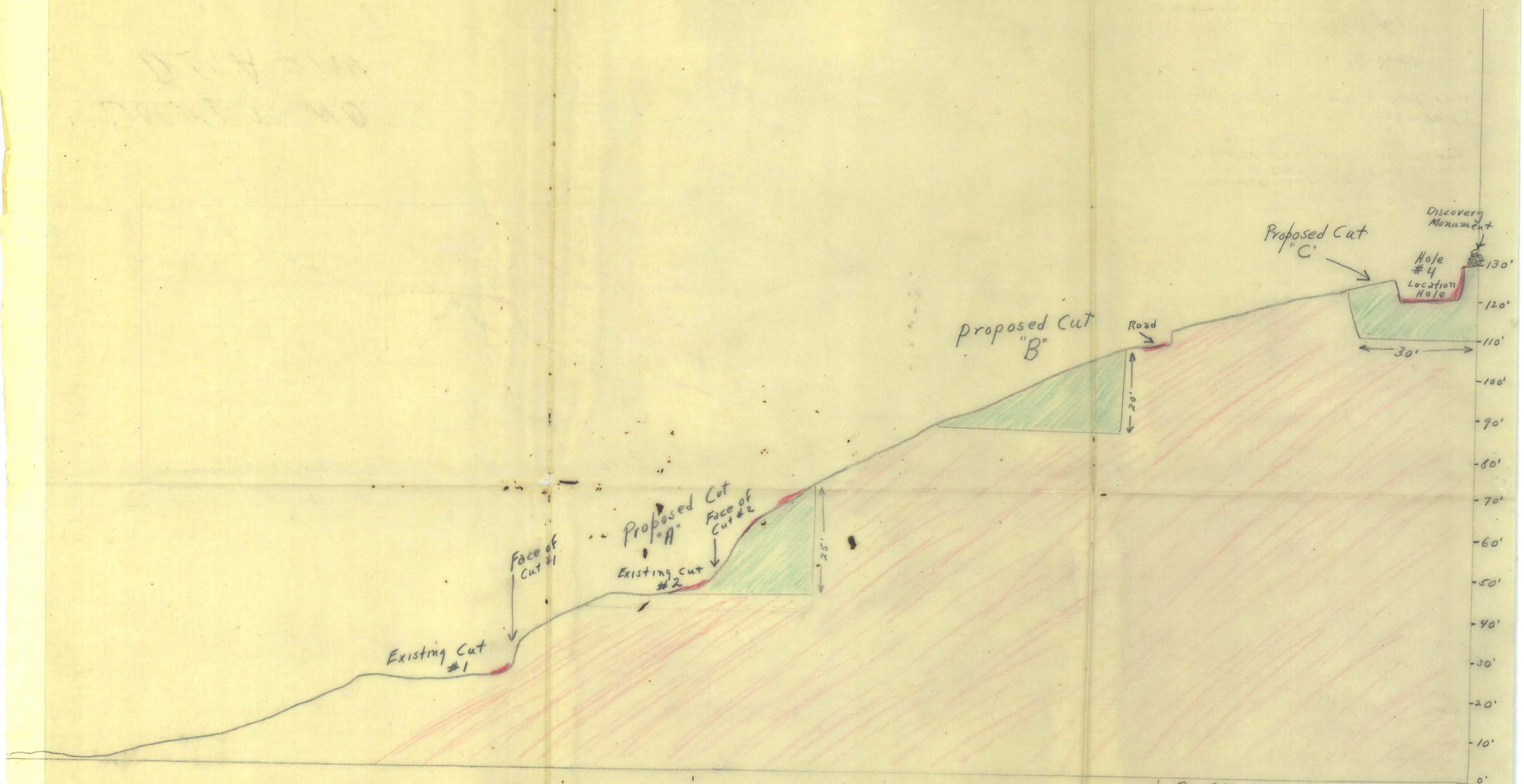
Contour Map
Red Rock #1
Scale 1" = 16 Feet



Assay Map
Proposed Cuts outlined in Green
Claim Red Rock #1

DOCKET NO.
D.M.A. 2194

Scale 1" = 16 Feet.



Profile - Cut on Line from discovery Monument to point at bottom of hill. 60° E of N. Line is marked "AA" on Map #1. Proposed excavations ar shown in green.

Ore body shown in light red

Out Crops shown in dark red

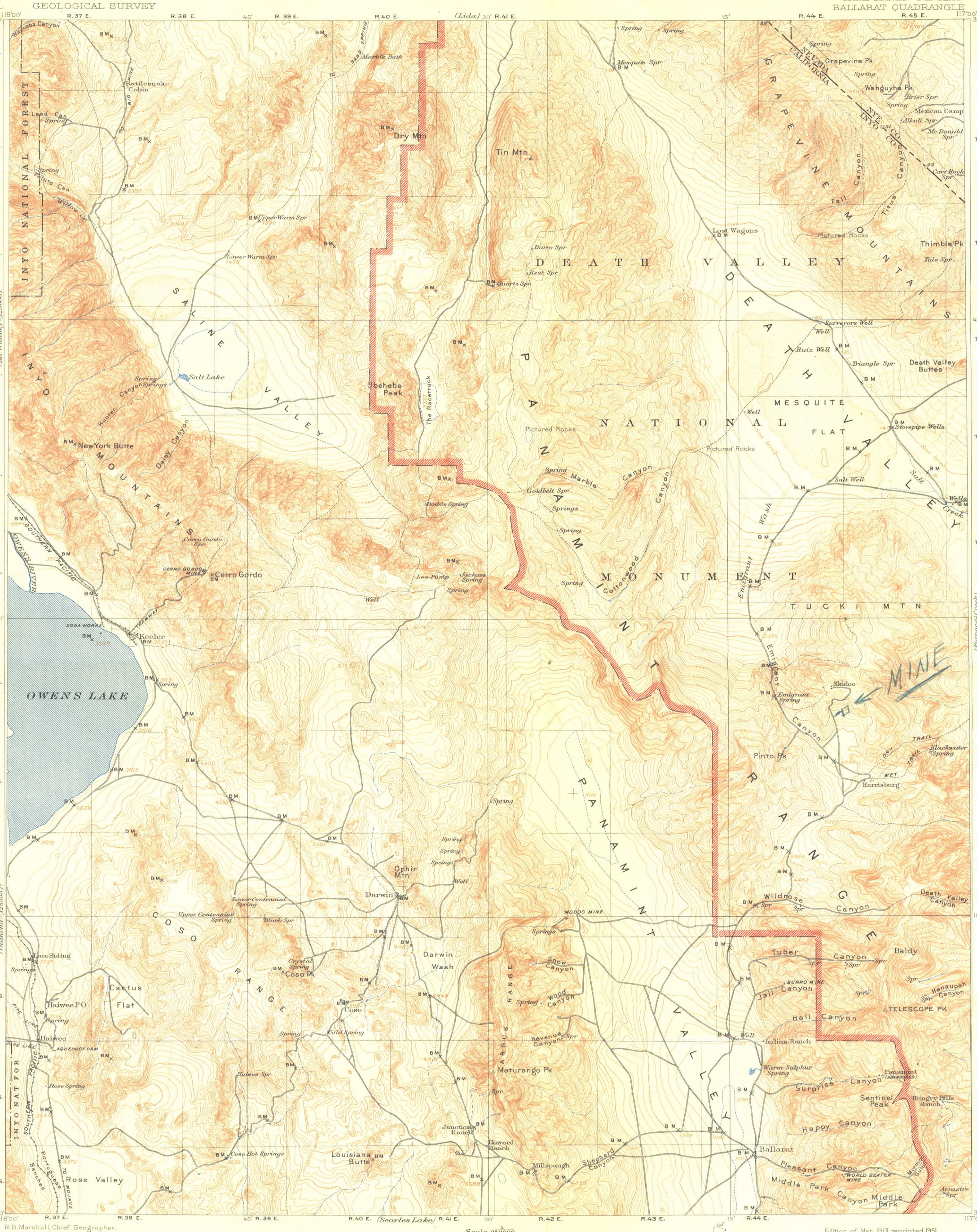
Scale 1 inch = 16 feet.

Claim - Red Rock #1.

DOCKET NO.
D.M.A. 2194

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CALIFORNIA - NEVADA
BALLARAT QUADRANGLE



R. B. Marshall, Chief Geographer.
E. M. Douglas, and T. G. Gerdine, Geographers in charge.
Topography by R. H. Chapman, J. E. Blackburn, B. D. Stewart, D. F. C. Moor, and T. P. Pendleton.
Control by R. H. Chapman, D. F. C. Moor, C. F. Urquhart, R. A. Farmer, and L. F. Biggs.
Surveyed in 1905-1906 and 1910-1911.

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Scale $\frac{1}{250000}$

2 1 0 2 4 6 8 10 Miles

2 1 0 2 4 6 8 10 Kilometers

Contour interval 100 feet.
Datum is mean sea level.

APPROXIMATE MEAN DECLINATION 1911.

Edition of Mar. 1913, reprinted 1951
Polyconic projection. North American datum.

BALLARAT, CALIF.-NEV.
N3600-W11700/60

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2 1 0 2 4 6 8 10 Miles

2 1 0 2 4 6 8 10 Kilometers

Contour interval 100 feet.
Datum is mean sea level.

TRUE NORTH
MAGNETIC NORTH
16°
APPROXIMATE MEAN DECLINATION 1911.

Edition of Mar. 1913, reprinted 1951
Polyconic projection. North American datum.

B. S. P. C. M. Blackburn

BALLARAT, CALIF.-NEV.
N3600-W11700/60

C