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DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 2734

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To:	CODE 400, Rm. 4538	Date	10-13-52
To:	Op Cons	Date	10/17/52
To:	Ogw Cons	Date	12/29/52
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CONTROLLED DOCUMENT

DEC 2 9 1952

2734

Mr. Claud F. Harris
Route 3, Box 3539
Auburn, California

Re: Docket No. DMEA 2734 - Tungsten
Claud F. Harris and W. A. Hoagess
Green Tail No. 2, Deer Tail No. 1
and Molly-Louise No. 1 claims
Calaveras County, California

Dear Mr. Harris:

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

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

A study of all our information, although noting a small amount of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge/le 12/23/52

CC: Docket
Admn. Read. File
Field Team, Reg. 3
Code 400
D. M. Lemmon, USGS
R. W. Geehan, USBM

Operating Committee

400

Administrator, DMEA

December 23, 1952

Iron and Ferro-Alloy Division, DMEA

Denial of application for exploration assistance in the amount of $25,000.00
Docket No. DMEA 2734 - Tungsten
Claud H. Harris and W. A. Boggess
Green Tail No. 2, Deer Tail No. 1, and Molly-Louise No. 1 claims
Calaveras County, California

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

(1) The application did not contain a definite program of exploration. There was no geologic information to substantiate the reported four vein zones from 4 to 25 feet wide.

(2) The tungsten occurs as scheelite in a few small bodies of tactite and in one very low grade disseminated deposit in a fine-grained gneiss.

All except one of the bodies are low grade. The best deposit contains about 5 tons of 1.07 percent WO_3 per foot of depth.

(3) A field examination by Lorin D. Clark, Geological Survey, indicated the property has little merit.

(4) The Field Team recommends denial.

(5) The Commodity Division of the Geological Survey recommends denial of the application.

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

FARutledge:ls 12/23/52

CC: Docket
Admn. Read. File
F. A. Rutledge
G. C. Selfridge

STANDARD FORM NO. 64 COPY OF HAND-WRITTEN MEMO

400

Office Memorandum • UNITED STATES GOVERNMENT

TO : Geo. C. Selfridge DATE: 12-22-52

FROM : Max D. Crittenden, Jr.

SUBJECT: TMMA - 2673 (tungsten)
2734 "
2664 "

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

Signed: MAX D. CRITTENDEN, JR.

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

400

Office of
Executive Officer
DMEA Field Team
Region III

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

Reviewed by
DMEA OPERATING COMMITTEE
12-17-52
(date)

December 8, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 15 1952

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2734 (Tungsten), Claud H. Harris and W. A. Boggess, Green Tail No. 2, Deer Trail No. 1 and Molly-Louise No. 1 Claims, Calaveras County, California

Reference is made to your letter, dated October 20, 1952, requesting a field examination of the subject claims.

In accordance with your request, the property was examined on October 30 - 31 by Lorin D. Clark of the Geological Survey, accompanied by owners Claud H. Harris and W. A. Boggess.

The geologist found that the property consists of only a few small bodies of tactite. Some of the tactite bodies contain small quantities of the tungsten-bearing mineral scheelite. The best of the deposits contain about 15 tons of rock per foot of depth, and most of the rock is an average grade of less than 0.5 percent WO_3. Exploration of the deposits would be costly, owing to their difficult accessibility.

It is recommended that the applicant's request for a Government exploration loan be denied, owing to the small size, low grade and inaccessibility of the deposits.

Attached are four copies of a report, DMEA-2734, Harris and Boggess Tungsten Property, Calaveras County, California, by Lorin D. Clark, Geologist, U. S. Geological Survey, dated December 3, 1952.

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

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno, Nev. (with copy of report)

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

GCS
12/22/52

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2734, Harris and Boggess Tungsten Property

Calaveras County, California

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DEC 29 1952

Lorin D. Clark, Geologist
U. S. Geological Survey

Dec. 3,1952

Reviewed by
DMEA OPERATING COMMITTEE

12-17-52
(date)

Summary and Recommendations

The best tungsten deposit on the property described in the docket is small -- about 15 tons per foot of depth -- and low grade. Except for a pod one foot wide and 8 feet long, which contains 1.07 percent WO_3, the deposit averages less than 0.5 percent WO_3. The other deposits are much smaller and lower grade. Access is difficult because the deposits are on a hillside that slopes about 30 to 50 degrees. It is recommended that the application for exploration funds be denied.

Introduction

The property covered by the application consists of three claims in secs. 11 and 18, T. 7 N., R. 1 E., Big Tree Quadrangle, Calaveras County, California. The claims extend about 1 mile south of Garnet Hill, which is immediately south of the Mokelumne River. The claims lie end to end, and north to south are Green Tail No. 2, Mollie Louise No. 1, Deer Tail No. 1. The two most northern claims are on very steeply sloping ground -- slopes range from 30 to 50 degrees.

A graded dirt road leads to the Clark's cabin (collapsed) at the south end of the claims. A four-wheel drive car is desirable to negotiate the last mile of the road. A poor jeep road has been extended about 2500 feet north from the cabin. The map of the Stanislaus National Forest, prepared by the U. S. Forest Service, is the most useful map in locating the property.

The property was examined by the writer accompanied by the owners, C. H. Harris and W. A. Boggess, on October 30 and 31, 1952.

No milling, housing facilities or mining equipment are on the property.

Geology and Tungsten Deposits

The claims are underlain by banded gneiss amphibolite, and crosscutting granite dikes. The foliation of the gneiss strikes north and is essentially vertical. Small bodies of tactite generally less than 50 feet long and about 1 to 10 feet thick are widely scattered through the other metamorphic and igneous rocks. Scheelite is present in some of the tactite and in some of the fine-grained gneiss. Under ultra-violet light, the scheelite fluoresces blue-white and all but one of the showings examined appeared to be very low grade. Most of the showings are less than 10 feet long and about 2 to 3 feet wide.

The best showing of scheelite is near the discovery point on the Mollie Louise No. 1 claim. Most of the scheelite is in a fine-grained tactite mass 4 to 5 feet wide and about 30 feet long. (see figure 2) Sparsely disseminated scheelite is also present in a zone 30 inches wide in fine-grained gneiss bordering the tactite on the west. Widely disseminated sulfides are also present in the tactite. The tactite is cut by scheelite-bearing quartz veins and contains a pod about 8 feet long and 1 foot thick

of a spongy, coarse-grained mixture of epidote, quartz, garnet and scheelite, apparently formed in a vug. In this material can be found scheelite crystals as much as 2 inches in diameter and smaller scheelite crystals with excellent terminations. Analyses of samples collected from this deposit are given in Table 1. The location of the samples are shown in a sketch of the deposit (figure 2). The samples were assayed by the Bureau of Mines in Reno, Nevada, and the results of the assays are tabulated below:

Sample No.	%WO_3
ML 1 and 4 combined	*0.01
ML 2	0.02
ML 3	0.45
ML 5	1.07

Evaluation

The average grade of the best deposit is low. Except for the rich pod which contains only about 5 tons of indicated ore with 1.07 WO_3, the average grade is less than 0.5 percent WO_3. The surface exposure indicates a small deposit - about 15 tons per foot of depth. Access to the deposit for exploration would be difficult because it is on a surface sloping 30 to 50 degrees and about 500 feet below the top of the slope -- the only point to which a road could be constructed with ease. Probably the cheapest way to get a compressor and other equipment to the deposit would be to extend the poor jeep road about 800 feet at the top of the excessively steep part of the hillside to a point directly above the deposit. Equipment could be taken down the hill from this point on an aerial cable.

Because of the small size and low grade of the best showing in the property it is recommended that the application for an exploration loan be denied. It does not appear to warrant the relatively high cost of exploration required by the difficulty of access.

Because of the small size of the deposit, it was apparent at the time of the field examination that the property would not qualify for a loan of the amount requested. I accordingly asked the applicants if they would be interested in a loan of less than $5000, provided that the results of the analyses justified a loan. Mr. Boggess did not appear interested in such a small loan because of the relatively high cost of setting up equipment at the prospect. Mr. Harris did not express an opinion. Analyses have since shown that no loan is warranted.

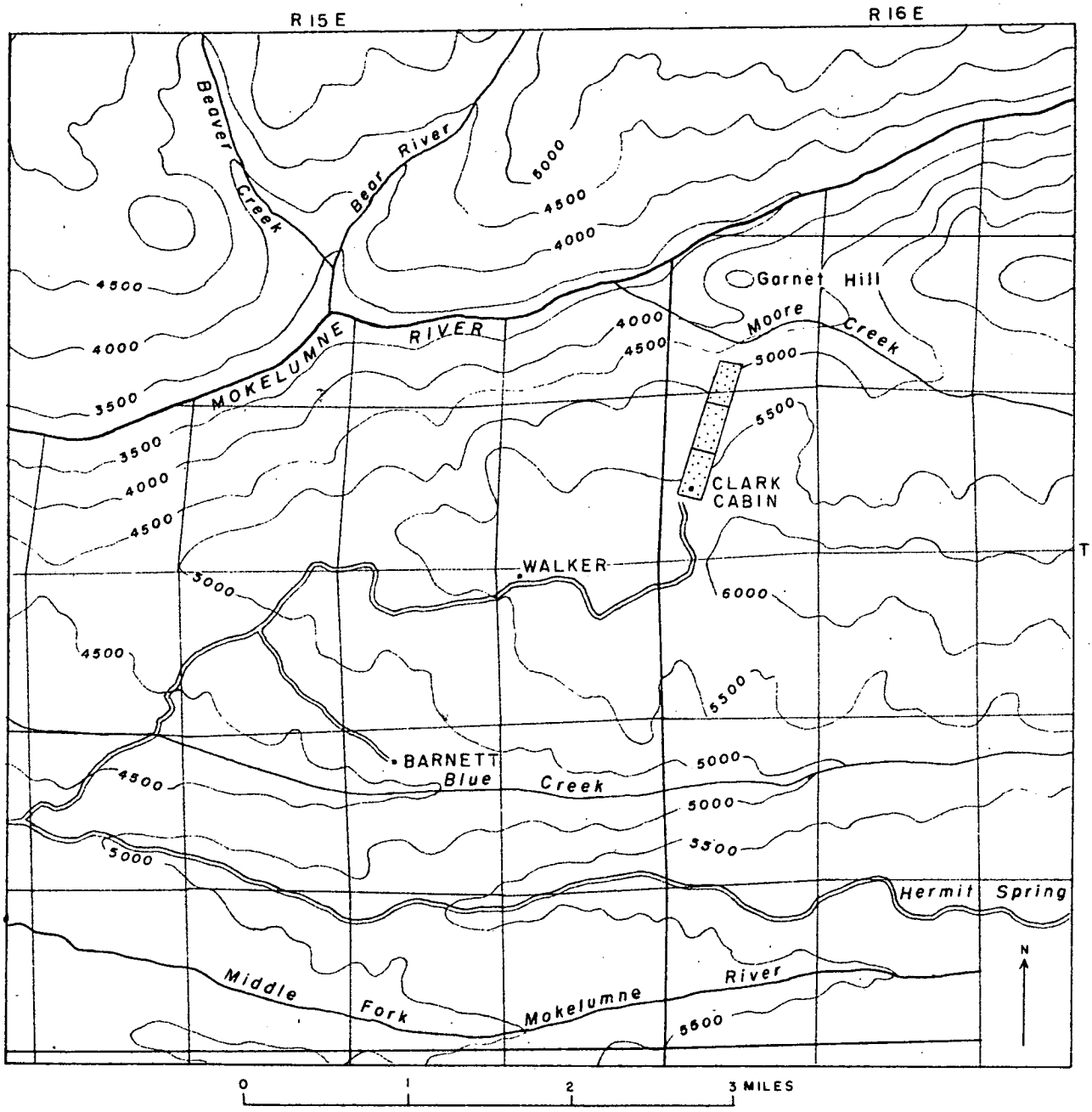


FIG. 1 – INDEX MAP SHOWING LOCATION OF TUNGSTEN CLAIMS OF HARRIS AND BOGGESS

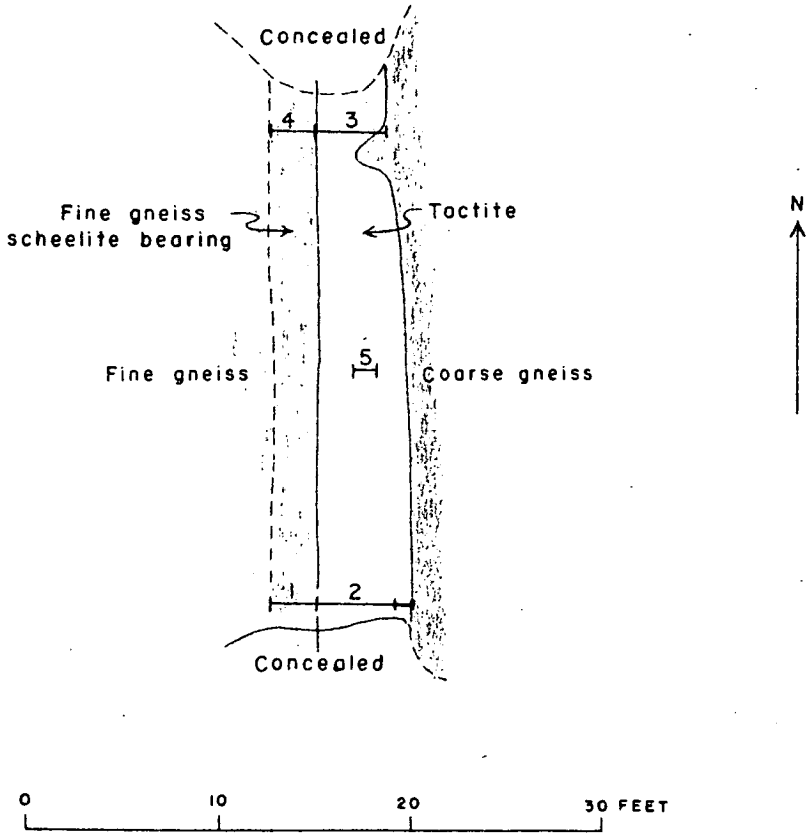


FIG. 2 - SKETCH SHOWING LOCATION OF SAMPLES
DISCOVERY POINT, MOLLY LOUISE CLAIM

OCT 20 1952

Mr. Cloud P. Harris
Route 3
Box 3539
Auburn, California

Re: Docket No. DMA 2734 - Stanton
Cloud P. Harris and C. C. Hogreen
Green Hill No. 2, Deer Hill No. 1
and Holly-Louise No. 1 Claims
Calaveras County, California

Dear Mr. Harris:

Your application for assistance in exploring the referenced group of claims in Calaveras County, California, has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration and has been referred to Mr. A. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you can render the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

Rutledge:lm
10/16/52

cc: Admin. Reading File
Docket
R. W. Meehan, DMEA
D. M. Lemmon, DMEA
Field Team Reg. III
G. C. Helfridge
P. A. Rutledge

FARutledge:lm
10/17/52

cc: Admn. Reading File
Docket
E. V. Geehan, USGS
J. P. Lemmon, USGS
Field Team Reg. III
Operating Committee
G. C. Selfridge
F. A. Rutledge

OCT 20 1952

Mr. W. C. Miller
Executive Officer, Region III
1017 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. MRSA 273 - Tungsten
Glen E. Harris and W. E. Hoggans
Green Tail No. 2, Deer Tail No. 1
and Molly-Louise No. 1 Claims
Calaveras County, California

Dear Mr. Miller:

Reference is made to the subject docket which is being referred to your office for a field examination.

The operators apparently have very little mining experience and the application contains practically none of the data necessary to lay out an exploration program. The appropriate field team will need to discuss and lay out a program of exploration with the operators if a project appears warranted. All of the data required for the preparation of Exhibit "A" of a contract should be obtained during the examination, a geologic map prepared, and representative samples taken.

Copies of memoranda from the commodity specialists of the Bureau of Mines and the Geological Survey are enclosed for your information.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

Enclosures

Concurred:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

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

4002

October 14, 1952

Memorandum

To: George C. Selfridge, DMEA

From: Robert W. Geehan

Subject: Claud H. Harris — DMEA 2734
William A. Hoggess — Tungsten
Calaveras County, California

Proposal: $25,000 for trenches, open cuts, adits, camp, and roads.

General: Applicant does not indicate the location of the proposed work. It seems probable that the costs should include an item for mapping. As there is no estimate of actual work to be done it is not practical to calculate costs per foot. Some limit should be placed on road and camp work.

The Bureau of Mines does not have a report on this deposit.

Recommendation: This proposal should be referred to the Field Team with a request that a new cost breakdown be supplied if the deposit warrants exploration. It will also be necessary to obtain a better statement of actual work to be done.

Robert W. Geehan

Attachment

Left file DMA 615 July 24, 1951.

Judith Beckham
3597

G. Selfridge.

Here as per check with Reno office about field examination made last year of this property.

1647

IN REPLY REFER TO:

G-MD-CF

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

October 14, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 15 1952

Memorandum

To: George C. Selfridge

From: T. P. Thayer

Subject: DMEA 2734, Tungsten, Claude H. Harris and W. A. Beggess, Auburn and Fair Oaks, Calif.

The applicants propose a $25,000 project for trenching and drifting on a scheelite tactite zone on three claims in Sec. 7, T. 7 N., R. 16 E., Calaveras County, Calif.

Very little technical data are given. Two assays are cited, reportedly across the veins, one showing 3.10% WO_3, the other 1.78% WO_3. There are said to be four vein zones from 4 to 25 feet wide, but no geologic map is provided.

The fee for the supervising engineer does not appear to be on a realistic basis.

The Geological Survey has no information on this deposit.

Recommendation:

The application should be referred to the field for evaluation and formulation of a realistic exploration program, if justified.

T. P. Thayer

TPThayer:gt

400

FILE COPY
SURNAME:

Rutledge
Selfridge
Geehan
Kunkel
Hedges
Hightower

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

DEC 29 1952

BL

Mr. Claud H. Harris
Route 3, Box 3539
Auburn, California

Re: Docket No. DMEA 2734 - Tungsten
Claud H. Harris and W. A. Boggess
Green Tail No. 2, Deer Tail No. 1
and Molly-Louise No. 1 claims
Calaveras County, California

Dear Mr. Harris:

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

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

A study of all our information, although noting a small amount of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf (for) J.H. 12-29-52

Administrator

FARutledge/ls 12/23/52

CC: Docket
Admn. Read. File
Field Team, Reg. 3
Code 400
D. M. Lemmon, USGS
R. W. Geehan, USBM
Operating Committee

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA

DATE: December 23, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Denial of application for exploration assistance in the amount of $25,000.00
Docket No. DMEA 2734 - Tungsten
Claud H. Harris and W. A. Boggess
Green Tail No. 2, Deer Tail No. 1, and Molly-Louise No. 1 claims
Calaveras County, California

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

(1) The application did not contain a definite program of exploration. There was no geologic information to substantiate the reported four vein zones from 4 to 25 feet wide.

(2) The tungsten occurs as scheelite in a few small bodies of tactite and in one very low grade disseminated deposit in a fine-grained gneiss.

All except one of the bodies are low grade. The best deposit contains about 5 tons of 1.07 percent WO_3 per foot of depth.

(3) A field examination by Lorin D. Clark, Geological Survey, indicated the property has little merit.

(4) The Field Team recommends denial.

(5) The Commodity Division of the Geological Survey recommends denial of the application.

G. C. Selfridge

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

FILE COPY
SURNAME:

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

Rutledge
Cy Holden
Selfridge
Gerhard

Administrator, DMEA

December 23, 1952

Iron and Ferro-Alloy Division, DMEA

Denial of application for exploration assistance in the amount of $25,000.00
Docket No. DMEA 2734 - Tungsten
Claud E. Harris and W. A. Boggess
Green Tail No. 2, Deer Tail No. 1, and Molly-Louise No. 1 claims
Calaveras County, California

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

(1) The application did not contain a definite program of exploration. There was no geologic information to substantiate the reported four vein zones from 4 to 25 feet wide.

(2) The tungsten occurs as scheelite in a few small bodies of tactite and in one very low grade disseminated deposit in a fine-grained gneiss.

All except one of the bodies are low grade. The best deposit contains about 5 tons of 1.07 percent WO_3 per foot of depth.

(3) A field examination by Lorin D. Clark, Geological Survey, indicated the property has little merit.

(4) The Field Team recommends denial.

(5) The Commodity Division of the Geological Survey recommends denial of the application.

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

FARutledge:ls 12/23/52

CC: Docket
Admn. Read. File
F. A. Rutledge
G. C. Selfridge

STANDARD FORM NO. 64

COPY OF HAND-WRITTEN MEMO

D. Fol

Office Memorandum • UNITED STATES GOVERNMENT

TO : Geo. C. Selfridge

DATE: 12-22-52

FROM : Max D. Crittenden, Jr.

DMEA - 2734

SUBJECT: DMEA - 2673 (tungsten)
2734 "
2664 "

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

Signed: MAX D. CRITTENDEN, JR.

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

Office of
Executive Officer
DMEA Field Team
Region III

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

December 8, 1952

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

To: Frank E. Johnson, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2734 (Tungsten), Claud H. Harris and W. A. Boggess, Green Tail No. 2, Deer Trail No. 1 and Molly-Louise No. 1 Claims, Calaveras County, California

Reference is made to your letter, dated October 20, 1952, requesting a field examination of the subject claims.

In accordance with your request, the property was examined on October 30 - 31 by Lorin D. Clark of the Geological Survey, accompanied by owners Claud H. Harris and W. A. Boggess.

The geologist found that the property consists of only a few small bodies of tactite. Some of the tactite bodies contain small quantities of the tungsten-bearing mineral scheelite. The best of the deposits contain about 15 tons of rock per foot of depth, and most of the rock is an average grade of less than 0.5 percent WO_3. Exploration of the deposits would be costly, owing to their difficult accessibility.

It is recommended that the applicant's request for a Government exploration loan be denied, owing to the small size, low grade and inaccessibility of the deposits.

Attached are four copies of a report, DMEA-2734, Harris and Boggess Tungsten Property, Calaveras County, California, by Lorin D. Clark, Geologist, U. S. Geological Survey, dated December 3, 1952.

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

Thru OC
12/17/52

Attachment
Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno, Nev. (with copy of report)

GCS
12/22/52

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2734, Harris and Boggess Tungsten Property

Calaveras County, California

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Library
DEC 14 1952

Lorin D. Clark, Geologist
U. S. Geological Survey

Dec. 3,1952

Summary and Recommendations

The best tungsten deposit on the property described in the docket is small -- about 15 tons per foot of depth -- and low grade. Except for a pod one foot wide and 8 feet long, which contains 1.07 percent WO_3, the deposit averages less than 0.5 percent WO_3. The other deposits are much smaller and lower grade. Access is difficult because the deposits are on a hillside that slopes about 30 to 50 degrees. It is recommended that the application for exploration funds be denied.

Introduction

The property covered by the application consists of three claims in secs. 11 and 18, T. 7 N., R. 16 E., Big Tree Quadrangle, Calaveras County, California. The claims extend about 1 mile south of Garnet Hill, which is immediately south of the Mokelumne River. The claims lie end to end, and north to south are Green Tail No. 2, Mollie Louise No. 1, Deer Tail No. 1. The two most northern claims are on very steeply sloping ground -- slopes range from 30 to 50 degrees.

A graded dirt road leads to the Clark's cabin (collapsed) at the south end of the claims. A four-wheel drive car is desirable to negotiate the last mile of the road. A poor jeep road has been extended about 2500 feet north from the cabin. The map of the Stanislaus National Forest, prepared by the U. S. Forest Service, is the most useful map in locating the property.

The property was examined by the writer accompanied by the owners, C. H. Harris and W. A. Boggess, on October 30 and 31, 1952.

No milling, housing facilities or mining equipment are on the property.

Geology and Tungsten Deposits

The claims are underlain by banded gneiss, amphibolite, and crosscutting granite dikes. The foliation of the gneiss strikes north and is essentially vertical. Small bodies of tactite generally less than 50 feet long and about 1 to 10 feet thick are widely scattered through the other metamorphic and igneous rocks. Scheelite is present in some of the tactite and in some of the fine-grained gneiss. Under ultra-violet light, the scheelite fluoresces blue-white and all but one of the showings examined appeared to be very low grade. Most of the showings are less than 10 feet long and about 2 to 3 feet wide.

The best showing of scheelite is near the discovery point on the Mollie Louise No. 1 claim. Most of the scheelite is in a fine-grained tactite mass 4 to 5 feet wide and about 30 feet long. (see figure 2) Sparsely disseminated scheelite is also present in a zone 30 inches wide in fine-grained gneiss bordering the tactite on the west. Widely disseminated sulfides are also present in the tactite. The tactite is cut by scheelite-bearing quartz veins and contains a pod about 8 feet long and 1 foot thick

of a spongy, coarse-grained mixture of epidote, quartz, garnet and scheelite, apparently formed in a vug. In this material can be found scheelite crystals as much as 2 inches in diameter and smaller scheelite crystals with excellent terminations. Analyses of samples collected from this deposit are given in Table 1. The location of the samples are shown in a sketch of the deposit (figure 2). The samples were assayed by the Bureau of Mines in Reno, Nevada, and the results of the assays are tabulated below:

Sample No.	%,WO_3
ML 1 and 4 combined	*0.01
ML 2	0.02
ML 3	0.45
ML 5	1.07

* Less than

Evaluation

The average grade of the best deposit is low. Except for the rich pod which contains only about 5 tons of indicated ore with 1.07 WO_3, the average grade is less than 0.5 percent WO_3. The surface exposure indicates a small deposit - about 15 tons per foot of depth. Access to the deposit for exploration would be difficult because it is on a surface sloping 30 to 50 degrees and about 500 feet below the top of the slope -- the only point to which a road could be constructed with ease. Probably the cheapest way to get a compressor and other equipment to the deposit would be to extend the poor jeep road about 800 feet at the top of the excessively steep part of the hillside to a point directly above the deposit. Equipment could be taken down the hill from this point on an aerial cable.

Because of the small size and low grade of the best showing in the property it is recommended that the application for an exploration loan be denied. It does not appear to warrant the relatively high cost of exploration required by the difficulty of access.

Because of the small size of the deposit, it was apparent at the time of the field examination that the property would not qualify for a loan of the amount requested. I accordingly asked the applicants if they would be interested in a loan of less than $5000, provided that the results of the analyses justified a loan. Mr. Boggess did not appear interested in such a small loan because of the relatively high cost of setting up equipment at the prospect. Mr. Harris did not express an opinion. Analyses have since shown that no loan is warranted.

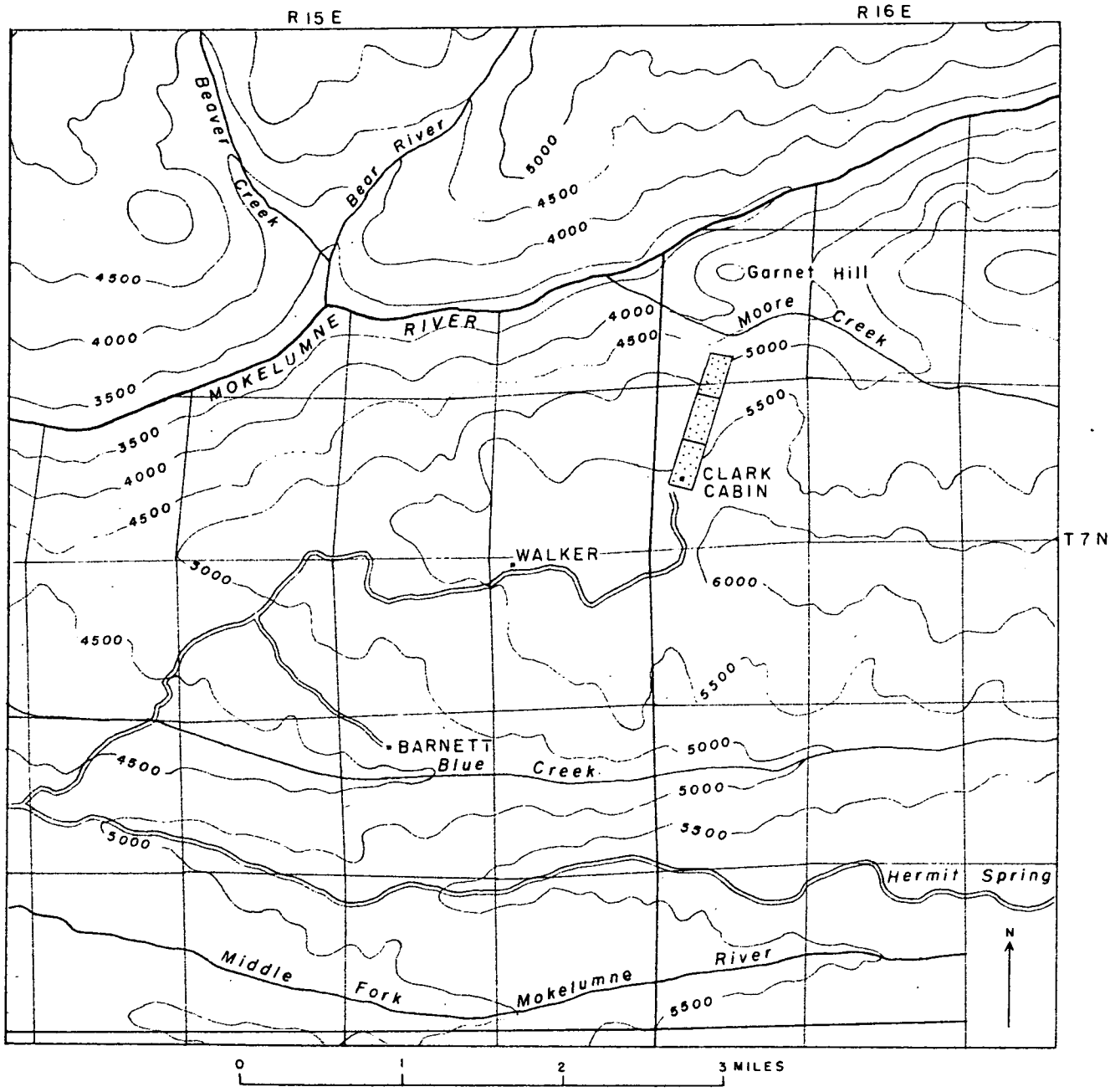


FIG. 1 – INDEX MAP SHOWING LOCATION OF TUNGSTEN CLAIMS OF HARRIS AND BOGGESS

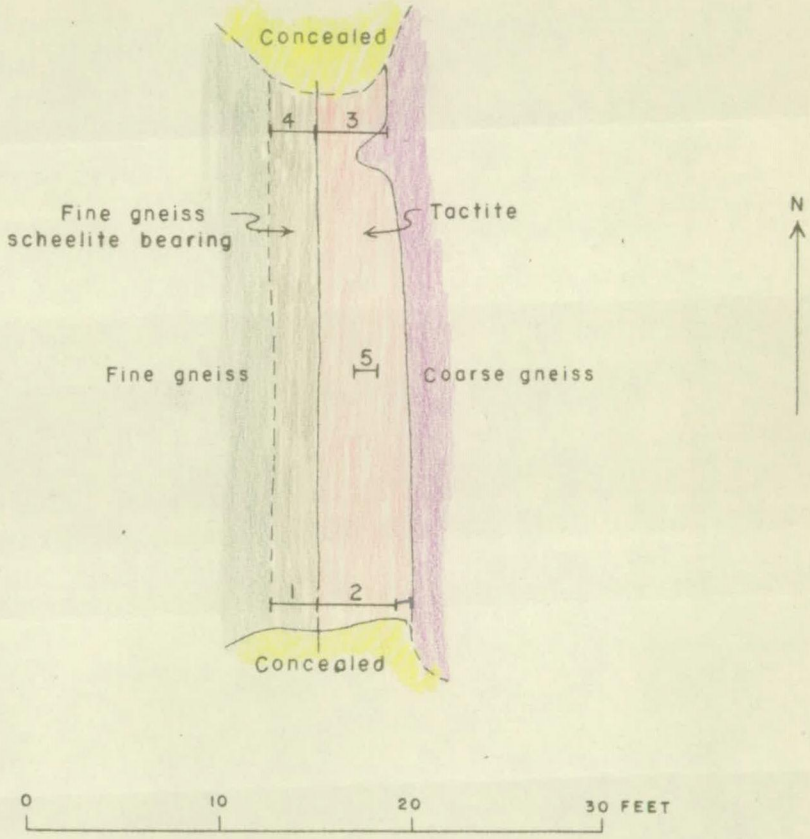


FIG. 2 - SKETCH SHOWING LOCATION OF SAMPLES
DISCOVERY POINT, MOLLY LOUISE CLAIM

FILE COPY 400
SURNAME:

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

Rutledge
Martin for
Selfridge
Kinkel
Hedges
JE Johnson

OCT 20 1952

Mr. Claud H. Harris
Route 3
Box 3539
Auburn, California

Re: Docket No. DMEA 2734 - Tungsten
Claud H. Harris and W. A. Boggess
Green Tail No. 2, Deer Tail No. 1
and Molly-Louise No. 1 Claims
Calaveras County, California

Dear Mr. Harris:

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

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you can render the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for) 10-20-52

Administrator

FARutledge'lm
10/16/52

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

Nov. 1 - Examination is being scheduled!

FARutledge'lm
10/17/52

FILE COPY
SURNAME:

Rutledge
Martin for
Selfridge

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

cc: Admin. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
Operating Committee
G. C. Selfridge
F. A. Rutledge

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

OCT 20 1952

Re: Docket No. DMRA 2734 - Tungsten
Claud H. Harris and W. A. Boggess
Green Tail No. 2, Deer Tail No. 1
and Molly-Louise No. 1 Claims
Calaveras County, California

Dear Mr. Miller:

Reference is made to the subject docket which is being referred to your office for a field examination.

The operators apparently have very little mining experience and the application contains practically none of the data necessary to lay out an exploration program. The examining field team will need to discuss and lay out a program of exploration with the operators if a project appears warranted. All of the data required for the preparation of Exhibit "A" of a contract should be obtained during the examination, a geologic map prepared, and representative samples taken.

Copies of memoranda from the commodity specialists of the Bureau of Mines and the Geological Survey are enclosed for your information.

Sincerely yours,

10-20

(signed) FRANK E. JOHNSON

(FB)

Chairman, Operating Committee

Enclosures

Approved:

J. H. Hedges (FB)

Member, Bureau of Mines

A. R. Kinkel, Jr. (FB)

Member, Geological Survey

IN REPLY REFER TO:

G-MD-CF

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

October 14, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 15 1952

Memorandum

To: George C. Selfridge

From: T. P. Thayer

Subject: DMEA 2734, Tungsten, Claude H. Harris and W. A. Boggess, Auburn and Fair Oaks, Calif.

The applicants propose a $25,000 project for trenching and drifting on a scheelite tactite zone on three claims in Sec. 7, T. 7 N., R. 16 E., Calaveras County, Calif.

Very little technical data are given. Two assays are cited, reportedly across the veins, one showing 3.10% WO_3, the other 1.78% WO_3. There are said to be four vein zones from 4 to 25 feet wide, but no geologic map is provided.

The fee for the supervising engineer does not appear to be on a realistic basis.

The Geological Survey has no information on this deposit.

Recommendation:

The application should be referred to the field for evaluation and formulation of a realistic exploration program, if justified.

T. P. Thayer

T. P. Thayer

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

October 14, 1952

Memorandum

To: George C. Selfridge, DMEA

From: Robert W. Geehan

Subject: Claud H. Harris
William A. Boggess
Calaveras County, California

DMEA 2734
Tungsten

Proposal: $25,000 for trenches, open cuts, adits, camp, and roads.

General: Applicant does not indicate the location of the proposed work. It seems probable that the costs should include an item for mapping. As there is no estimate of actual work to be done it is not practical to calculate costs per foot. Some limit should be placed on road and camp work.

The Bureau of Mines does not have a report on this deposit.

Recommendation: This proposal should be referred to the Field Team with a request that a new cost breakdown be supplied if the deposit warrants exploration. It will also be necessary to obtain a better statement of actual work to be done.

Robert W. Geehan

Robert W. Geehan

Attachment

Copy retained 40

October 13, 1952

Mr. Claude H. Harris
Route 3,
Box 3539
Auburn, California

Subject: DMEA-2734
Re: Exploration Assistance
Green Tail No. 2, Deer Tail
No. 1, Molly-Louise No. 1

My dear Mr. Harris:

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

Your application has been assigned Docket Number DMEA-2734 and referred to the Iron & Ferro-Alloys Division.

Kindly refer to DMEA-2734 in any future correspondence relating to your application.

Sincerely yours,

R. E. ADAMS

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

25451

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. Dmea-2734
Metal or Mineral Tungsten
Date Received 10-10-54
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Cloud H. Harris Rt. 3 Box 3539 Auburn Calif. and William A. Boggess Mining Ay Fair Oaks Calif.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract. The undersigned are the owners and locators of the three unpatented mining claims as follows; Green Tail No.2, Rec.Book 23 Page 456; Deer Tail No. 1, book 23 page 300-301; Molly-Louise No. 1 Book 23, Pages 430-431; All recorded in official records of Calaveras County Calif.

(*b*) State any mine name by which the property is known. see above this report

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Claim owners by right of discovery

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

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. (a-1)- none; (a-2)-see engineers report.

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

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

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

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

16—66551-1

See attached sheet for answers to questions 5,6

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Scheelite (Tungsten)

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

(*c*) The work will start within 30 days and be completed within 18 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[x] Money [ ] Use of equipment owned by you [x] Other Labor and services

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 8th, 1952

Emma Boggess
(Applicant)

By Claud W. Harris

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

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

Messrs. Wm. A. Boggess and Claude H. Harris

Gentlemen:

According to your request, I visited your mining property near West Point, California, on August 17, 1952. I am attaching a letter report of my observations and recommendations thereon.

Yours respectfully,

J. C. Scoles

J. C. Scoles,
Engineer of Mines

Wm A Boggess
Claud H Harris

Claud H. Harris, R# 3 Box 3539 Auburn Calif.

Letter Report

on

Mining Property

of

Wm. A. Bo ges and Claude H. Harris

Located in Section 7, T. 7 N., R. 16 E. Mt. D. B. & M.

Calaveras County, California.

Auburn Calif.

Claud H Harris. Rout #3, Box 3539

This property is situated in Section 7, T. 7 N., R. 16 E., Mt. D. B. & M. which is about 20 miles East of West Point, Calaveras County, California, and is in the canyon of Moore Creek. It is reached by traveling the Winton Lumber Company's logging road eastward from West Point to Blue Creek, thence by Forest Trail to Clark's Cabin on Little Moore Creek. This cabin is near the discovery point of Deer Trail No. 1 Lode and is on the Southerly end of the property.

The locations are contiguous and end to end. From South to North they are Deer Trail No. 1, Molly Louise and Green Tail No. 2. The Deer Tail is on the rim of the canyon to Moore Creek; the Molly Louise hangs on the canyon wall; the Green Tail No. 2 lies in the canyon bottom and is crossed by Moore Creek. The canyon wall is very steep approaching a 45 degree slope. Its elevation is from 3500 feet above sea level on Moore Creek to over 5000 feet on the rim.

The property is mining lode locations and is held by right of discovery and location.

GEOLOGY

These claims lie in a pendant of sedimentary rock surrounded by granite. Sedimentary rocks are exposed in the bed of Moore Creek on the Green Tail No. 2 location. Downstream the creek has cut through the contact and is in the underlying granite. The canyon wall is a maze of croppings both of sedimentary and igneous rocks. The rim is covered with lava but farther South granite, coarse grained and similar to the granite exposed on the lower part of Moore Creek outcrops.

Claud H. Harris, R# # Box 3539 Auburn Calif.

Four ore zones show in the bed of Moore Creek, one of which traverses this group of locations. Known as the Green Tail vein it shows a width of 25 to 30 feet at its crossing of the creek. Uphill its width is concealed but its presence is shown by croppings of tactite. At the discovery point of the Molly Louise its width is five or more feet. The ore is contact matamorphic type and consists of garnet, epidote, various sulphides and is thickly speckled with crystals of scheelite, the latter being the mineral which is economically important.

There appears to be two mineralizations of scheelite, one a type which fluoreses yellow and which carries some molbdenum, and the other fluoresing a pure blue-white. The latter occurs in coarse crystals some of which are as large as walnuts.

The ore was examined by an ultra-violet lamp. Samples were not taken. The ore zone strikes Northerly and Southerly and stands vertical.

Conditions Affecting a Mining Operation:

Accessibility. The North end of the property is reached by well-graded roads belonging to the Winton Lumber Co., P. G. & E. Co., and the U. S. Forest Service. Entry this way is via Jackson over State Highway 88 to Inspiration Lodge, thence over the roads enumerated. Distance from Jackson 46 miles.

The South end of the property is reached via the roads enumerated in the introduction. The Winton Lumber Company road is excellent; the Forest Trail is poor but is a good truck and Jeep road. This road will be closed during the winter season. Jackson is the shipping point.

Weather. Dry in summer, moderate depth of snow in winter. Year-around operations can be run once camp and mine plant are erected.

Water. Little Moore Creek runs throughout the year and carries sufficient water to supply the camp and sustain a 50-ton-a-day operation.

Timber. Sufficient timber for mining purposes is available both along Moore Creek and on the canyon rim. Godd mill-grade timber is available along Moore Creek, and custom sawing is done by a mill some 10 miles from the property.

Supplies. All kinds of supplies needed for mining operation can be purchased in the City of Jackson which is 46 miles distant from the property.

Power. Power can be obtained from the P. G. & E. Co. Salt Springs powerhouse about 2½ miles distant.

Labor. Experienced mine labor is available in West Point and Jackson. Wages will be $14 to $16 per 8-hour day. Labor taxes and Workmen's Compensation will add approximately 10% to this wage.

Camp and Mine Plant. There is no building or equipment now on the property.

Mine Workings. None except the discovery pits.

CONCLUSIONS

It is concluded that the area covered by these mining locations lies mostly in an area of sedimentary rocks and is close to the contact between them and granite, a condition favorable to the formation of scheelite deposits, and that the ore zone which crops along the location contains this mineral in attractive quantities. Development is needed to prove if the deposit can be exploited with profit.

RECOMMENDATIONS

It is recommended that a development program be instituted, planning to spend $25,000 as the first step in the venture. The first work should be conducted from a camp near Clark's cabin. From this site all materials will move downhill to the job.

Claud H. Harris, R# 8 Box 6339 Auburn Calif.

The money should be applied as follows:

1. Erection of a temporary camp to accommodate ten men. A small workshop should be included.

2. Building of a road and trail so that the proposed working places can be readily reached.

3. Purchase or rental on a purchase basis of a portable Diesel-driven air compressor of a 300 cu. ft. capacity; drills and accessory equipment; mine cars and track and the necessary tools for tunneling.

4. The ore zone should be exposed by trenches and open cuts at frequent intervals, say 200 feet apart.

5. Short adits should be driven along the ore zone from the open cuts.

6. Should the deposit prove to be as valuable as now appears probable, funds should be provided for further exploration, probably beat done by diamond drilling.

Respectfully submitted,

J. C. Scoles

J. C. Scoles,
Engineer of Mines.

Cloud H. Harris

Cloud H. Harris, R# 8 Box 3539 Auburn Calif.

ANSWERS TO INSTRUCTIONS
On Form No. M F - 103

Beginning with instruction No. 5.

No. 5 THE EXPLORATION PROJECT.

(A) Name of Mineral, "Sheelite" (Tungsten)
(B) See enclosed map.
(C) Answered on printed form.
(D) Training in Placer College in Geology and Mining. Two years study in prospecting in California, 15 years in Real Estate Business, for Claud H. Harris.

Business ability gained through 25 years in mechanical engineering, and at present Building Inspector with U. S. Army Engineers, for William A. Boggess.

J. C. Scoles, who made the report inclosed herewith, will supervise all exploration operations. He is an Engineer of Mines with 30 years experience in mining operations.

No. 6 ESTIMATE OF COSTS.

(A) None. Superintendent to supervise purchase of materials and hiring and direction of labor.
(B) See enclosed Engineers report page 5 under LABOR.

Supervising Engineer to receive 10% of estimated cost - - - - -	$2500.00
Labor costs of project -	11500.00
(C) Shovels, picks, drills, powder, fuse and caps, miscellaneous small tools -	1000.00
Water is free, diesel and gas fuel will be used.	
(D) Operating equipment, rails, cars, cable, winches, hoists, water pipes, lumber, mine timbering, hose, 300 cu. ft. compresser, jack hammer, etc. - - - - - - - - - - - -	5000.00
(E) None, not applicable	
(F) Erection of camp for ten men and work shop - - - - -	2500.00
(G) Miscellaneous,	
Repair and maintenance - - - - - - - - - - - - - - - -	300.00
Analytical work - - - - - - - - - - - - - - - - - -	300.00
Accounting -	750.00
Workmans Comp. Liability Ins. Payroll taxes - - -	1150.00
Total - - - - - -	$25000.00

(H) None, not applicable

No. 7 PERSONAL RESPONSIBILITY

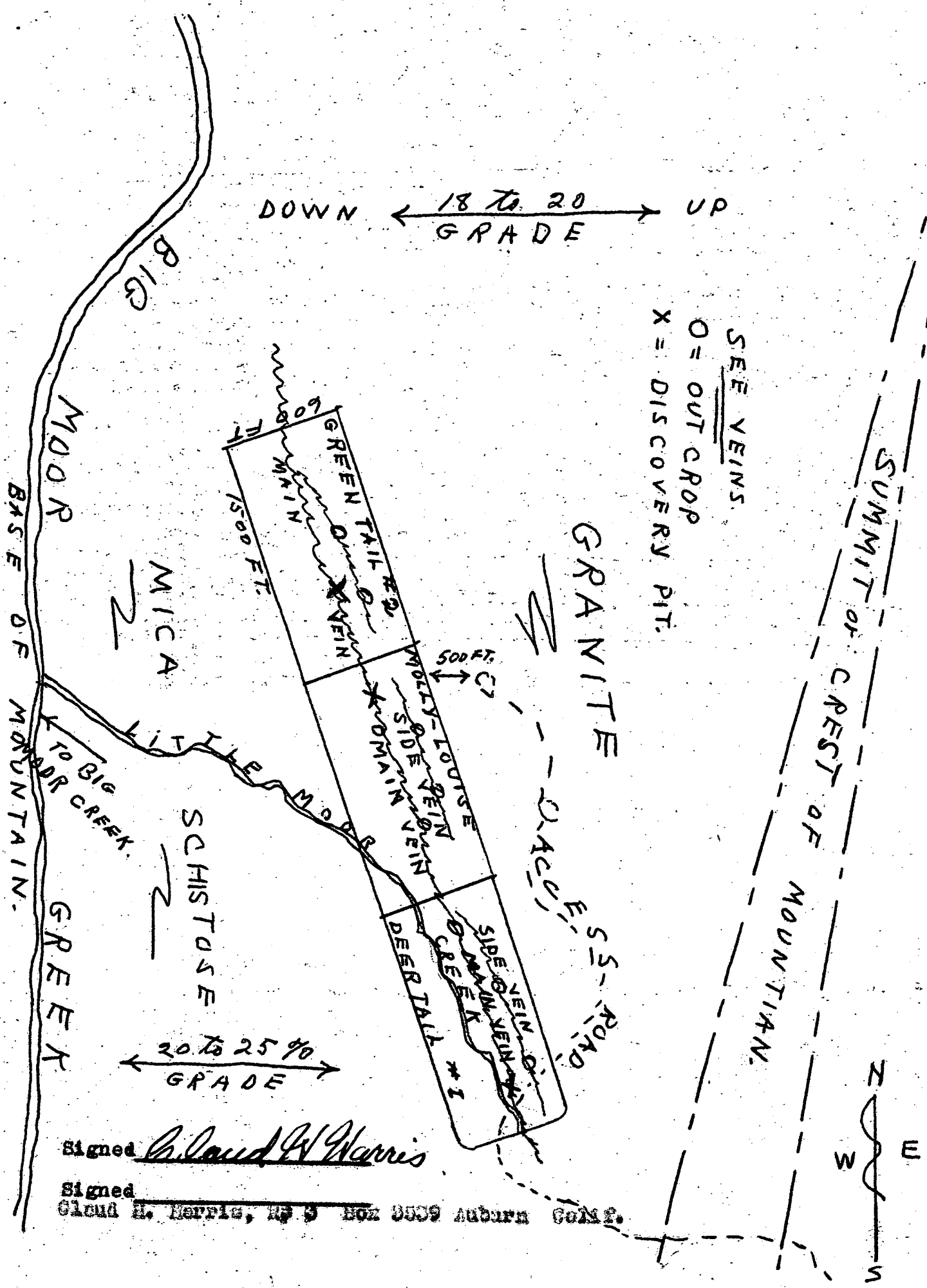
(A) Yes
(B) Money from cash in hand and in bank. Also we expect to perform some labor and services.

We hereby certify that we have two assays on the ore from the deposits. One from Black & Deason, Salt Lake City, Utah, showing 3.10 WO_3 and one from The Colorado Assaying Co., Denver, Colorado, showing 1.78 WO_3. Both samples were taken across the vein and were good average representative samples of the vein.

Signed Claud H. Harris

Signed _____

Claud H. Harris, R# 3 Box 3639 Auburn Calif.



Signed Cloud H. Harris

Signed
Cloud H. Harris, RF 3 Box 3539 Auburn Calif.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. Dmea-2734
Metal or Mineral
Date Received 10-10-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Cloud H. Harris Rt. 3 Box 3539 Auburn Calif. and William A Boggess Winding Way Fair Oaks Calif.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract The undersigned are the owners and locators of the three unpatented mining claims as follows; Green Tail No.2, Rec.Book 23 Page 456; Deer Tail No. 1, book23 page300-301 ; Molly-Louise No. 1 Book 23, Pages 430-431; All recorded in official records of Calaveras County Calif.

(*b*) State any mine name by which the property is known. Serviss Dns 10083

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Claim owners by right of discovery

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

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. (a-1)- none; (a-2)-see engineers report.

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

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

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

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

16—6655F-1

See Attached Sheet for answers to questions 5, 6, [redacted] & 7

5. *The exploration project.*—State the mineral or minerals for which you wish to explore Scheelite (Tungsten)

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

(*c*) The work will start within 30 days and be completed within 18 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [X] Other Labor and services

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 7th, 1952

Emma Boggess
(Applicant)

By Claud A. Harris

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

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

Messrs. Wm. A. Boggess and Claude H. Harris

Gentlemen:

According to your request, I visited your mining property near West Point, California, on August 17, 1952. I am attaching a letter report of my observations and recommendations thereon.

Yours respectfully,

J. C. Scoles

J. C. Scoles,
Engineer of Mines

Wm A Boggess
Claud H Harris

Claud H. Harris R#3 Box 3539 Auburn Calif.

Letter Report

on

Mining Property

of

Wm. A. Bo;ges and Claude H. Harris

Located in Section 7, T. 7 N., R. 16 E. Mt. D. B. & M.

Calaveras County, California.

Claud H Harris
R 3, Box 3539 Auburn Calif.

This property is situated in Section 7, T. 7 N., R. 16 E., Mt. D. B. & M. which is about 20 miles East of West Point, Calaveras County, California, and is in the canyon of Moore Creek. It is reached by traveling the Winton Lumber Company's logging road eastward from West Point to Blue Creek, thence by Forest Trail to Clark's Cabin on Little Moore Creek. This cabin is near the discovery point of Deer Trail No. 1 Lode and is on the Southerly end of the property.

The locations are contiguous and end to end. From South to North they are Deer Trail No. 1, Molly Louise and Green Tail No. 2. The Deer Tail is on the rim of the canyon to Moore Creek; the Molly Louise hangs on the canyon wall; the Green Tail No. 2 lies in the canyon bottom and is crossed by Moore Creek. The canyon wall is very steep approaching a 45 degree slope. Its elevation is from 3500 feet above sea level on Moore Creek to over 5000 feet on the rim.

The property is mining lode locations and is held by right of discovery and location.

GEOLOGY

These claims lie in a pendant of sedimentary rock surrounded by granite. Sedimentary rocks are exposed in the bed of Moore Creek on the Green Tail No. 2 location. Downstream the creek has cut through the contact and is in the underlying granite. The canyon wall is a maze of croppings both of sedimentary and igneous rocks. The rim is covered with lava but further South granite, coarse grained and similar to the granite exposed on the lower part of Moore Creek outcrops.

Claud H. Harris R#3 Box 3539 Auburn Calif.

Four ore zones show in the bed of Moore Creek, one of which traverses this group of locations. Known as the Green Tail vein it shows a width of 25 to 30 feet at its crossing of the creek. Uphill its width is concealed but its presence is shown by croppings of tactite. At the discovery point of the Molly Louise its width is five or more feet. The ore is contact matamorphic type and consists of garnet, epidote, various sulphides and is thickly speckled with crystals of scheelite, the latter being the mineral which is economically important.

There appears to be two mineralizations of scheelite, one a type which fluoresces yellow and which carries some molbdenum, and the other fluoresing a pure blue-white. The latter occurs in coarse crystals some of which are as large as walnuts.

The ore was examined by an ultra-violet lamp. Samples were not taken. The ore zone strikes Northerly and Southerly and stands vertical.

Conditions Affecting a Mining Operation:

Accessibility. The North end of the property is reached by well-graded roads belonging to the Winton Lumber Co., P. G. & E. Co., and the U. S. Forest Service. Entry this way is via Jackson over State Highway 88 to Inspiration Lodge, thence over the roads enumerated. Distance from Jackson 46 miles.

The South end of the property is reached via the roads enumerated in the introduction. The Winton Lumber Company road is excellent; the Forest Trail is poor but is a good truck and Jeep road. This road will be closed during the winter season. Jackson is the shipping point.

Weather. Dry in summer, moderate depth of snow in winter. Year-around operations can be run once camp and mine plant are erected.

Water. Little Moore Creek runs throughout the year and carries sufficient water to supply the camp and sustain a 50-ton-a-day operation.

Timber. Sufficient timber for mining purposes is available both along Moore Creek and on the canyon rim. Godd mill-grade timber is available along Moore Creek, and custom sawing is done by a mill some 10 miles from the property.

Supplies. All kinds of supples needed for mining operation can be purchased in the City of Jackson which is 46 miles distant from the property.

Power. Power can be obtained from the P. G. & E. Co. Salt Springs powerhouse about 2½ miles distant.

Labor. Experienced mine labor is available in West Point and Jackson. Wages will be $14 to $16 per 8-hour day. Labor taxes and Workmen's Compensation will add approximately 10% to this wage.

Camp and Mine Plant. There is no building or equipment now on the property.

Mine Workings. None except the discovery pits.

CONCLUSIONS

It is concluded that the area covered by those mining locations lies mostly in an area of sedimentary rocks and is close to the contact between them and granite, a condition favorable to the formation of scheelite deposits, and that the ore zone which crops along the location contains this mineral in attractive quantities. Development is needed to prove if the deposit can be exploited with profit.

RECOMMENDATIONS

It is recommended that a development program be instituted, planning to spend $25,000 as the first step in the venture. The first work should be conducted from a camp near Clark's cabin. From this site all materials will move downhill to the job.

Cloud H Harris . Rout 3, Box 3539
Auburn Calif.

The money should be applied as follows:

1. Erection of a temporary camp to accommodate ten men. A small workshop should be included.

2. Building of a road and trail so that the proposed working places can be readily reached.

3. Purchase or rental on a purchase basis of a portable Diesel-driven air compressor of a 300 cu. ft. capacity; drills and accessory equipment; mine cars and track and the necessary tools for tunneling.

4. The ore zone should be exposed by trenches and open cuts at frequent intervals, say 200 feet apart.

5. Short adits should be driven along the ore zone from the open cuts.

6. Should the deposit prove to be as valuable as now appears probable, funds should be provided for further exploration, probably best done by diamond drilling.

Respectfully submitted,

J. C. Scoles

J. C. Scoles,
Engineer of Mines.

Cleand H. Harris

Cleand H. Harris R#3 Box 3539 Auburn Calif.

ANSWERS TO INSTRUCTIONS
On Form No. N F - 103

Beginning with instruction No. 5.

No. 5 THE EXPLORATION PROJECT.

(A) Name of Mineral, "Sheelite" (Tungsten)
(B) See enclosed map.
(C) Answered on printed form.
(D) Training in Placer College in Geology and Mining. Two years study in prospecting in California, 15 years in Real Estate Business, for Claud H. Harris.

Business ability gained through 25 years in mechanical engineering, and at present Building Inspector with U. S. Army Engineers, for William A. Boggess.

J. C. Scoles, who made the report inclosed herewith, will supervise all exploration operations. He is an Engineer of Mines with 30 years experience in mining operations.

No. 6 ESTIMATE OF COSTS.

(A) None. Superintendent to supervise purchase of materials and hiring and direction of labor.
(B) See enclosed Engineers report page 5 under LABOR.

Supervising Engineer to receive 10% of estimated cost - - - - -	$2500.00
Labor costs of project -	11500.00
(C) Shovels, picks, drills, powder, fuse and caps, miscellaneous small tools -	1000.00
Water is free, diesel and gas fuel will be used.	
(D) Operating equipment, rails, cars, cable, winches, hoists, water pipes, lumber, mine timbering, hose, 300 cu. ft. compresser, jack hammer, etc. - - - - - - - - - - - -	5000.00
(E) None, not applicable	
(F) Erection of camp for ten men and work shop - - - - - -	2500.00
(G) Miscellaneous,	
Repair and maintenance - - - - - - - - - - - - - - - - -	300.00
Analytical work -	300.00
Accounting -	750.00
Workmans Comp. Liability Ins. Payroll taxes - - -	1150.00
Total - - - - - -	$25000.00

(H) None, not applicable

No. 7 PERSONAL RESPONSIBILITY

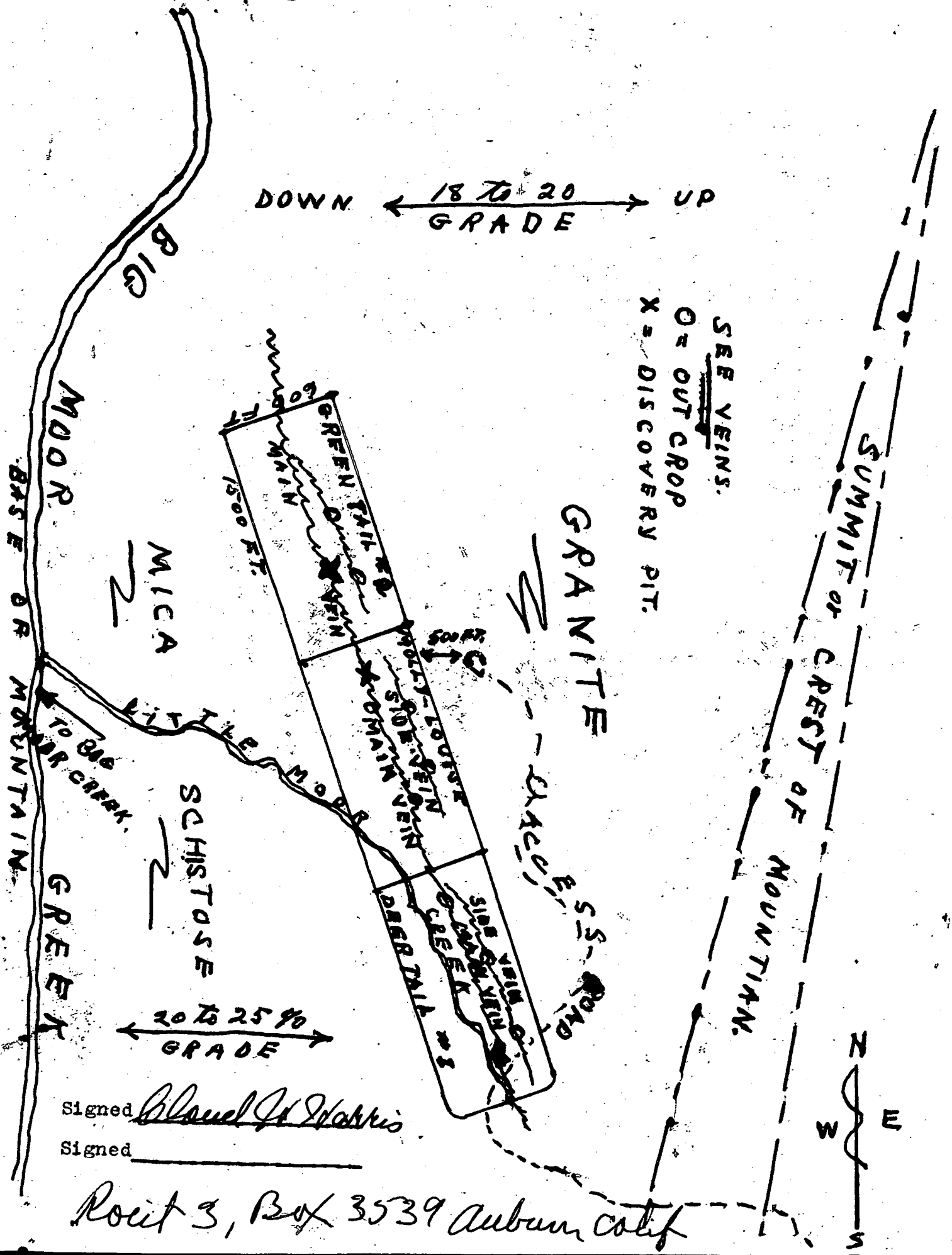
(A) Yes
(B) Money from cash in hand and in bank. Also we expect to perform some labor and services.

We hereby certify that we have two assays on the ore from the deposits. One from Black & Deasen, Salt Lake City, Utah, showing 3.10 WO_3 and one from The Colorado Assaying Co., Denver, Colorado, showing 1.78 WO_3. Both samples were taken across the vein and were good average representative samples of the vein.

Signed Claud H. Harris

Signed W. A. Boggess

Route 3, Box 3539
Auburn Calif



Signed Blanel G Wakkis

Signed _____

Rout 3, Box 3539 Auburn Calif

BIG
WOOD
CREEK
MOUNTAIN
ACIM
SCHIST
GRAMITE
MOUNTAIN OF TEST OF TIMMUS
DOWN
GRADE
UP
GRADE
X = DISCOVERY PIT.
O = OUT CROP
SEE VEIN 2.
MAIN
VEIN
1500 FT.
N
W
E

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. Dmea-2734
Metal or Mineral
Date Received 10-10-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Claud H. Harris Rt. 3 Box 3539 Auburn Calif. and William A Boggess Winding Way Fair Oaks Calif.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract The undersigned are the owners and locators of the three unpatented mining claims sas follows; Green Tail No. 2, Rec. Book 23 Page 456; Deer Tail No. 1, book 23 page 300-301; Molly-Louise No. 1 Book 23, Pages 430-431; All recorded in official records of Calaveras County Calif.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Claim owners by right of discovery

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

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. (a-1)- none; (2-a)-see engineers report.

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

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

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

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

16-1035

5. *The exploration project.*—State the mineral or minerals for which you wish to explore .....

.....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ....., 195...

.....
(Applicant)

By.....

.....

.....

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

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

Messrs. Wm. A. Boggess and Claude H. Harris

Gentlemen:

According to your request, I visited your mining property near West Point, California, on August 17, 1952. I am attaching a letter report of my observations and recommendations thereon.

Yours respectfully,

J. C. Ecoles

J. C. Ecoles,

Engineer of Mines

Wm A Boggess

Claud H Harris

Claud H. Harris R#3 Box 3539 Auburn Calif.

Letter Report

on

Mining Proporty

of

Wm. A. Bo ges and Claude H. Harris

Located in Section 7, T. 7 N., R. 16 E. Mt. D. B. & M.

Calaveras County, California.

Claud H. Harris R#3 Box 3539 Auburn Calif.

This property is situated in Section 7, T. 7 N., R. 16 E., Mt. D. B. & M. which is about 20 miles East of West Point, Calaveras County, California, and is in the canyon of Moore Creek. It is reached by travelin the Winton Lumber Company's logging road eastward from West Point to Blue Creek, thence by Forest Trail to Clark's Cabin on Little Moore Creek. This cabin is near the discovery point of Deer Trail No. 1 Lode and is on the Southerly end of the property.

The locations are contiguous and end to end. From South to North they are Deer Trail No. 1, Molly Louise and Green Tail No. 2. The Deer Tail is on the rim of the canyon to Moore Creek; the Molly Louise hangs on the canyon wall; the Green Tail No. 2 lies in the canyon bottom and is crossed by Moore Creek. The canyon wall is very steep approaching a 45 degree slope. Its elevation is from 3500 feet above sea level on Moore Creek to over 5000 feet on the rim.

The property is mining lode locations and is held by right of discovery and location.

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These claims lie in a pendant of sedimentary rock surrounded by granite. Sedimentary rocks are exposed in the bed of Moore Creek on the Green Tail No. 2 location. Downstream the creek has cut through the contact and is in the underlying granite. The canyon wall is a maze of croppings both of sedimentary and igneous rocks. The rim is covered with lava but further South granite, coarse grained and similar to the granite exposed on the lower part of Moore Creek outcrops.

Claud H. Harris R#3 Box 3539 Auburn Calif.

Four ore zones show in the bed of Moore Creek, one of which traverses this group of locations. Known as the Green Tail vein it shows a width of 25 to 30 feet at its crossing of the creek. Uphill its width is concealed but its presence is shown by croppings of tactite. At the discovery point of the Holly Louise its width is five or more feet. The ore is contact metamorphic type and consists of garnet, epidote, various sulphides and is thickly speckled with crystals of scheelite, the latter being the mineral which is economically important.

There appears to be two mineralizations of scheelite, one a type which fluoresces yellow and which carries some molbdenum, and the other fluorescing a pure blue-white. The latter occurs in coarse crystals some of which are as large as walnuts.

The ore was examined by an ultra-violet lamp. Samples were not taken. The ore zone strikes Northerly and Southerly and stands vertical.

Conditions Affecting a Mining Operation:

Accessibility. The North end of the property is reached by well-graded roads belonging to the Winton Lumber Co., P. G. & E. Co., and the U. S. Forest Service. Entry this way is via Jackson over State Highway 88 to Inspiration Lodge, thence over the roads enumerated. Distance from Jackson 46 miles.

The South end of the property is reached via the roads enumerated in the introduction. The Winton Lumber Company road is excellent; the Forest Trail is poor but is a good truck and Jeep road. This road will be closed during the winter season. Jackson is the shipping point.

Weather. Dry in summer, moderate depth of snow in winter. Year-around operations can be run once camp and mine plant are erected.

Water. Little Moore Creek runs throughout the year and carries sufficient water to supply the camp and sustain a 50-ton-a-day operation.

Timber. Sufficient timber for mining purposes is available both along Moore Creek and on the canyon rim. Godd mill-grade timber is available along Moore Creek, and custom sawing is done by a mill some 10 miles from the property.

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Camp and Mine Plant. There is no building or equipment now on the property.

Mine Workings. None except the discovery pits.

CONCLUSIONS

It is concluded that the area covered by these mining locations lies mostly in an area of sedimentary rocks and is close to the contact between them and granite, a condition favorable to the formation of scheelite deposits, and that the ore zone which crops along the location contains this mineral in attractive quantities. Development is needed to prove if the deposit can be exploited with profit.

RECOMMENDATIONS

It is recommended that a development program be instituted, planning to spend $25,000 as the first step in the venture. The first work should be conducted from a camp near Clark's cabin. From this site all materials will move downhill to the job.

Claud H. Harris R-3 Box 3539 Auburn Calif.

The money should be applied as follows:

1. Erection of a temporary camp to accommodate ten men. A small workshop should be included.

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3. Purchase or rental on a purchase basis of a portable Diesel-driven air compressor of a 300 cu. ft. capacity; drills and accessory equipment; mine cars and track and the necessary tools for tunneling.

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Respectfully submitted,

J. C. Scoles

J. C. Scoles,

Engineer of Mines.

Cloud H. Harris

Cloud H. Harris R.F.D. Box 3539 Auburn Calif.

ANSWERS TO INSTRUCTIONS
On Form No. H F - 103

Beginning with instruction No. 5.

No. 5 THE EXPLORATION PROJECT.

(A) Name of Mineral, "Sheelite" (Tungsten)
(B) See enclosed map.
(C) Answered on printed form.
(D) Training in Placer College in Geology and Mining. Two years study in prospecting in California, 15 years in Real Estate Business, for Claud H. Harris.

Business ability gained through 25 years in mechanical engineering, and at present Building Inspector with U. S. Army Engineers, for William A. Boggess.

J. C. Scoles, who made the report inclosed herewith, will supervise all exploration operations. He is an Engineer of Mines with 30 years experience in mining operations.

No. 6 ESTIMATE OF COSTS.

(A) None. Superintendent to supervise purchase of materials and hiring and direction of labor.
(B) See enclosed Engineers report page 5 under LABOR.

Supervising Engineer to receive 10% of estimated cost - - - - -	$2500.00
Labor costs of project -	11500.00
(C) Shovels, picks, drills, powder, fuse and caps, miscellaneous small tools -	1000.00
Water is free, diesel and gas fuel will be used.	
(D) Operating equipment, rails, cars, cable, winches, hoists, water pipes, lumber, mine timbering, hose, 300 cu. ft. compresser, jack hammer, etc. - - - - - - - - - - -	5000.00
(E) None, not applicable	
(F) Erection of camp for ten men and work shop - - - - - -	2500.00
(G) Miscellaneous,	
Repair and maintenance - - - - - - - - - - - - - - - -	300.00
Analytical work - - - - - - - - - - - - - - - - - -	300.00
Accounting -	750.00
Workmans Comp. Liability Ins. Payroll taxes - - -	1150.00
Total - - - - - -	$25000.00

(H) None, not applicable

No. 7 PERSONAL RESPONSIBILITY

(A) Yes
(B) Money from cash in hand and in bank. Also we expect to perform some labor and services.

We hereby certify that we have two assays on the ore from the deposits. One from Black & Deason, Salt Lake City, Utah, showing 3.10 WO_3 and one from The Colorado Assaying Co., Denver, Colorado, showing 1.78 WO_3. Both samples were taken across the vein and were good average representative samples of the vein.

Signed Claud H. Harris

Signed W. A. Boggess

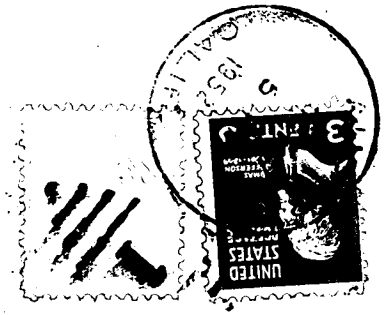
Claud H. Harris R.3 Box 3559 Auburn Calif.

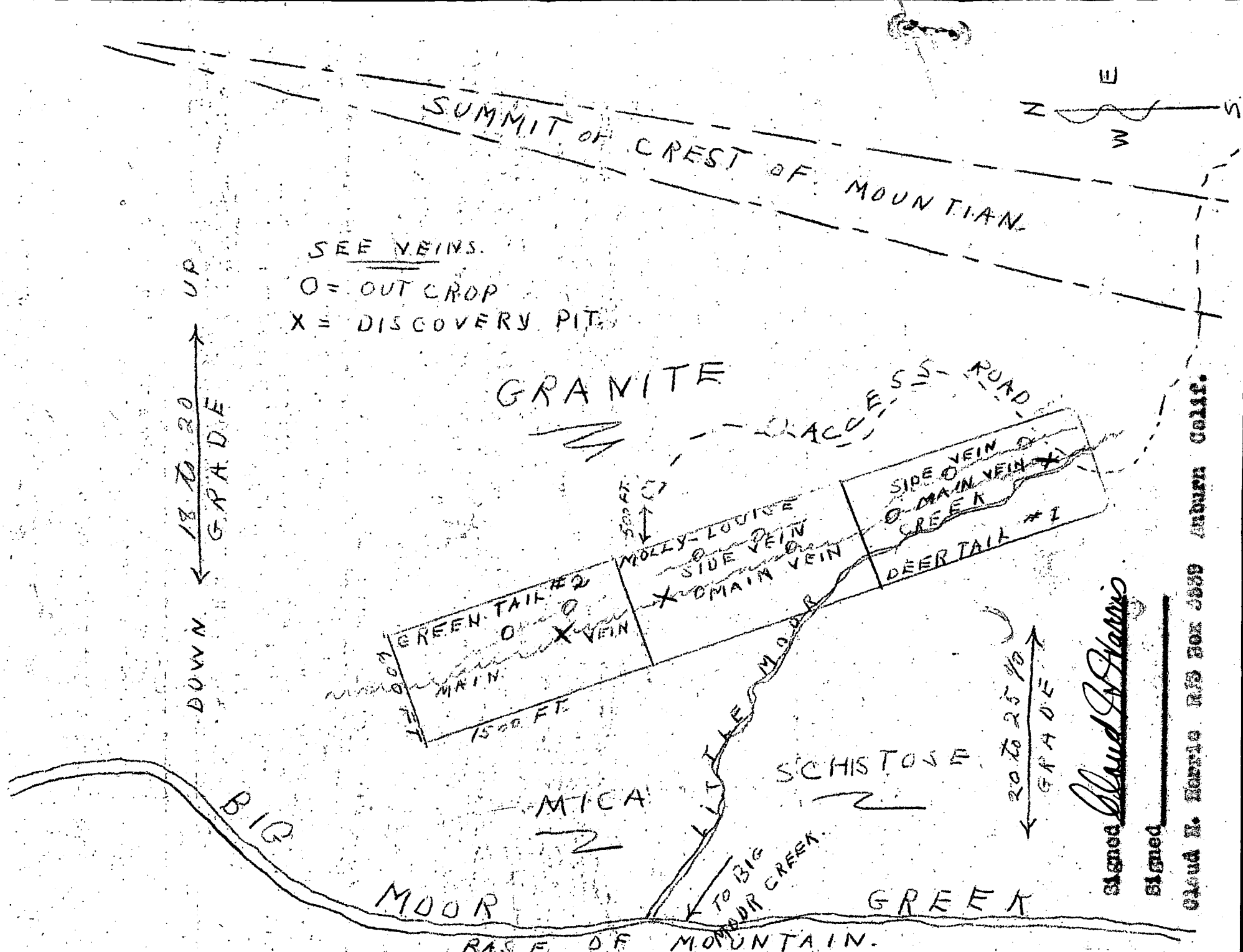
C. HARRIS REALTOR
FOR
REAL ESTATE
RT. 3, BOX 3539 AUBURN, CALIF.
TELEPHONE AUBURN 17-J-2

Defense Minerals Exploration Administration

Department of Interior

Washington D. C. 25





Signed Claud H. Harris

Signed _____

Claud H. Harris RFD Box 3039 Auburn Calif.