DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip Tungsten

CONTROLLED DOCUMENT

DMA Docket No. 1621-X

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Routing Slip

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CONTROLLED DOCUMENT

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

FILE COPY
SURNAME:

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

JAN 30 1952

Mr. Mark Harris
P.O. Box 297
Fallon, Nevada

Re: Docket No. DMA 1621X - Tungsten
Bell Flat Tungsten Claims
Churchill County, Nevada

Dear Mr. Harris:

Receipt of your letter of January 21, 1952, is acknowledged and your comments therein noted.

It was not our intent to revise the whole work program but to precede it with a small surface program which, if successful, would have aided in carrying out the underground phase.

Occasionally, we do not wholly agree with the programs outlined by members of our field teams. This difference of opinion can and does exist in any organization including large mining companies. We regret that it occurred in your particular instance where another party might have suggested sinking a limited distance on the presently exposed ore showings before contemplating driving adits or crosscuts.

As you requested, we are withdrawing your application and are herewith returning the following:

1 - Assay report, July 16, 1948, by Crismon & Nichols

1 - Small photostat map

1 - Blueprint map

1 - Letter, January 10, 1951, from Union Carbide and Carbon Corporation.

cc: Admn. Reading File
Docket
1-30 S.O. R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
G. C. Selfridge

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration Administration

Enclosures - 4

GCSelfridge:lm
1/28/52

Fallon, Nevada
P.O.Box 287
Jan.21, 1952

Defense Minerals Exploration Admin.
Washington 25, D.C.
Att'n: Geo. C. Selfridge

Re: Docket No. DMA 1621X
Tungsten
Bell Flat Tungsten Claims
Churchill County, Nevada.

Dear Mr. Selfridge:

After digesting your letter of Jan. 15, requesting an ammended program of development, I come to the same conclusion as the majority of mine operators: The Defense Minerals Admin., is a farce and waste of the tax-payers money, in so far as aid to the small miner is concerned.

A Bureau of Mines Engineer examined this property, and the work out-lined in the application for a loan was laid out on his recommendations. Now, Washington, evidently having no confidence in the ability of Bureau of Mines Engineers, or in the ability of any private operating mining engineers, wants to revise the whole work program so they can stall another six months before saying yes or no.

Saying underground work cannot be geologically substantiated at this time, and not wanting to dig any hole below your knees, is not my way of economic development to prove if the ore goes down. Damned if I will play politics to get government aid and do work that is un-called for. So, without wasting anymore of my time filling out an ammendment (4 copies), and putting in another period of "passing the buck", I'll skip "Step 1" and "Step 2", and take "Step 3" by saying: TO H--- WITH THE DMA! Cancel my application for an exploration loan, and return all my maps, assay reports, and other data, immediately. I'll prove my ore with private capital without government aid.

Yours in disgust,

Mark Harris

Mark Harris, Mining Engineer

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 23 1952

400
FILE COPY
SURNAME:

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

Brewer
Selfridge
Underwood

JAN 15 1952

Mr. Mark Harris
P.O. Box 297
Fallon, Nevada

Re: Docket No. DMA 1621X - Tungsten
Bell Flat Tungsten Claims
Churchill County, Nevada

Dear Mr. Harris:

We have reviewed your application for an exploration loan on the above noted property in conjunction with other reports and information relating to the area.

It is our conclusion that the subject property warrants surface trenching and sampling for the purpose of defining and evaluating the outcrops of such ore shoots as may exist.

The underground exploration project, as presently set forth in the application, cannot be substantiated geologically at this time and is, therefore, premature.

We suggest that the above noted surface work be designated as "Step 1", and that the underground work be made subject to the data revealed by the surface work and be designated "Step 2".

If you will furnish us with an amendment to your application (4 copies) detailing the number of trenches, their length and depth and their location with respect to the claims and/or present surface openings, and the manner and cost of doing the work, we can then designate this work as "Step 1". The underground work noted in the present application can be then designated as "Step 2", the accomplishment of which will depend upon the results of "Step 1".

We will hold your application in abeyance pending receipt of the above requested amendment.

QLBrewer'lm
1/1152

Sincerely yours,

G. C. Selfridge

S.N. 1-15-52

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

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

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

January 7, 1952

1621 X

Memorandum

To: George Selfridge, DMEA

From: Robert W. Geehan, Bureau of Mines

Subject: Bell Flat Tungsten
Midnight and Midnight No. 2
Churchill Co., Nevada

I have reviewed the docket on the subject property, including the January 4th, memo from D. M. Lemmon. I have also examined this deposit in the field in 1943 or 1944.

Recommendation:-

An exploration program at this deposit should be approved provided that surface exploration consisting of trenching, sampling, and mapping is conducted. If results of such a program indicate that underground work is desirable, it is almost certain that the location of the proposed adits would be changed. It is suggested that the applicants divide this application into a "surface" proposal and an "underground" proposal, and that the surface work be completed before final approval of the underground work is granted. Because of the large ratio of powellite to scheelite at this deposit, assays will be necessary, and should be provided for in the application. Estimates of tungsten content made by ultra-violet lamping are not reliable under these conditions.

Robert W. Geehan

Robert W. Geehan

STANDARD FORM NO. 64

# *Office Memorandum* • UNITED STATES GOVERNMENT

TO : George Selfridge, DMEA DATE: January 4, 1952

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

SUBJECT: Exploration application DMA 1621 X - Tungsten
Mark Harris et al
~~928 35th Street~~ PO Box 297
~~Sacramento, Calif.~~ Fallon, Nevada

Property: Bell Flat Tungsten Claims
(Midnight and Midnight No. 2)
Sec. 6, T. 14 N., R. 34 E.
Churchill County, Nevada

I have reviewed the field team report, dated October 19, 1951, received in Washington November 13 (examination September 20-21).

The field report does not provide any adequate justification for the recommendation that the proposed work be approved. The only samples that represent possible commercial ore (samples 4 and 5) were taken from the surface cut on the Midnight claim, where the vein is 2 feet wide. The adit beneath this outcrop contains no ore at the face.

The statements made July 9 in a letter to the applicant from Mr. Holderer, DMA, still hold. The property warrants surface trenching and sampling to determine if any ore shoots exist; any proposals for underground exploration are premature. I am attaching a copy of this letter herewith, to be returned to USGS files at your convenience.

I recommend that the proposal as presented be denied, but that the applicant be informed that DMEA will consider a modest program of trenching, sampling, and mapping.

DM Lemmon

— Trem Rept —

$WO_3$ in So. Churchill Co Nev.

$WO_3$ in small outcrops in ls ~~[illegible]~~

6.7 tons shipped @ 1.49% $WO_3$

25 mi from Gabbs, Nev.

12 unpat claims

Present working, 50 ft adit on strike of mineralized bed + small cuts and pits about the claims

El. 5000'

10 x 12' cabin -

no power, no water — possible well site 1 mi distant

Monocline in calc schist + marble - dips 30-36° SE strike N25°E - also aplite + rhyolite dikes to NW and granite to E, some folding + faulting.

Scheelite and Powellite, epidote in ls, garnet + qtz xls follow bedding planes - Continuity of mineralization follows bedding planes, does not cut across

No thick bed of disseminated values noted

No barren bands of epidote, parallel to $WO_3$ bands

Pits show sparse dissemination of Scheelite

Not enough work has been done to expose extent and/or thickness of mineralized bands, or to locate other parallel bands, if any -

Applicant proposes 175' along beds + 148' xcut for parallel beds, if any —

George Selfridge, DMEA

January 4, 1952

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

Exploration application
Mark Harris et al
928 35th Street
Sacramento, Calif.

DMA 1621 X - Tungsten

Property: Bell Flat Tungsten Claims
(Midnight and Midnight No. 2)
Sec. 6, T. 14 N., R. 34 E.
Churchill County, Nevada

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I recommend that the proposal as presented be denied, but that the applicant be informed that DMEA will consider a modest program of trenching, sampling, and mapping.

DM Lemmon

DMLemmon:gt

Copy to: R.Meehan

George Selfridge, DMEA

January 4, 1952

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

Exploration application
Mark Harris et al
928 35th Street
Sacramento, Calif.

DMA 1621 X - Tungsten

Property: Bell Flat Tungsten Claims
(Midnight and Midnight No. 2)
Sec. 6, T. 14 N., R. 34 E.
Churchill County, Nevada

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I recommend that the proposal as presented be denied, but that the applicant be informed that DMEA will consider a modest program of trenching, sampling, and mapping.

D M Lemmon

DMLemmon:gt

Copy to: R.Geehan

FILE COPY
Surname:

Geehan
Kingsbury

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

January 7, 1952

Memorandum

To: George Selfridge, DMEA

From: Robert W. Geehan, Bureau of Mines

Subject: Bell Flat Tungsten
Midnight and Midnight No. 2
Churchill Co., Nevada

16214

I have reviewed the docket on the subject property, including the January 4th, memo from D. M. Lemmon. I have also examined this deposit in the field in 1943 or 1944.

Recommendation:-

An exploration program at this deposit should be approved provided that surface exploration consisting of trenching, sampling, and mapping is conducted. If results of such a program indicate that underground work is desirable, it is almost certain that the location of the proposed adits would be changed. It is suggested that the applicants divide this application into a "surface" proposal and an "underground" proposal, and that the surface work be completed before final approval of the underground work is granted. Because of the large ratio of powellite to scheelite at this deposit, assays will be necessary, and should be provided for in the application. Estimates of tungsten content made by ultra-violet lamping are not reliable under these conditions.

Robert W. Geehan

RWGeehan:ELK

CC: Mr. Geehan
Ferrous M&A
Files

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

July 9, 1951

Mr. Mark Harris
928 35th Street
Sacramento, California

In reply please refer to:
DMA-1621-X -- Tungsten

Dear Mr. Harris:

We have carefully reviewed your application for an exploration project costing $10,000 at the Bell Flat tungsten prospects, Churchill County, Nevada. It appears to us that insufficient trenching and sampling has been done on the surface, and that proposals for underground work are premature. Your statement lists 2 samples taken by Mr. Dobson on the Scheelite and Midnight No. 2 claims assaying 0.8 and 0.4 percent of $WO_3$, one sample taken by yourself on the Midnight claim assaying 1.5 percent, and a bulk sample of the same ore amounting to 6.7 tons which was sold to the Pine Creek mill of U. S. Vanadium Corporation at an assay of 1.49 percent. These 4 samples appear to represent small pods of ore rather than continuous mineralization in veins or beds.

It appears that some good tungsten ore is present in the open cut on the Midnight claim. It also appears from samples taken during World War II by a Government engineer that much of the fluorescent material on the claims is powellite, the assays of which were disappointingly low in tungsten.

Your comments on the high cost of custom milling at the Pine Creek mill are partly true for ores containing more than 1.0 percent of $WO_3$. For lower-grade ores, however, it can be shown that the milling charges are not unreasonable inasmuch as payments are based on 100 percent recovery compared to an expectable recovery of 60 to 70 percent in a small plant such as you might erect on your claims. The high molybdenum content in your ore necessitates chemical digestion of the concentrates for purification, an expensive procedure. When these factors are taken into consideration, a price of $18 per ton of ore assaying 0.5% $WO_3$ is not out of line when finished concentrates are priced at $65 per unit. Incidentally, we don't know of any sales of domestic tungsten concentrates at prices above $65 per unit during 1951.

If your analysis of costs shows that the exploration [illegible] is too expensive, even though [illegible], you might be able to [illegible] or not exhaust the [illegible] the site, [illegible] or Grants Duncan [illegible], etc.

We are enclosing a copy of form [illegible], the exploration contract, for your information so that you can see which exhibits are necessary as part of the contract. Although it is particularly important, we should receive [illegible] statement of [illegible] showing exactly what work is to be done under the contract. The location and length [illegible] of the [illegible], drifts, shafts, raises or other work. If you can be prepared to provide the necessary exhibits, we will consider your application further.

Very truly yours,

George B. Holderer

[illegible]

[illegible]

DHLemmon:j

cc:Adm. Admin. File
Reports & Records Division
Field Team III
F I L E
Mr. Holderer
Mr. McCarran (2)
Mr. Lemmon

OFFICE OF THE ADMINISTRATOR

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. NOV 19 3 16 PM '51

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

1012 Flood Building
870 Market Street
SanFrancisco 2, Calif.

Office of
Executive Officer
DMA Field Team
Region III

November 6, 1951

Memorandum

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

From: Executive Officer, DMA Field Team, Region III

Subject: Docket DMA-1621X, Tungsten - Mark Harris, 928 - 35th Street, Sacramento, California - Bell Flat Tungsten Property, Churchill County, Nevada.

Reference is made to your subject "Review of Application for Exploration Assistance", dated September 5, 1951.

Attached are four copies of a report,"DMA-1621X, Bell Flat Tungsten Property, Churchill County, Nevada", by E. J. Matson, mining engineer, Bureau of Mines, dated October 19, 1951.

According to the examining engineer, the deposits are in a metamorphosed area of calcareous schists with interbedded lenses of limestone. Scheelite with powellite occurs in the metamorphosed limestone with the schists. The limestone contains considerable epidote, garnet and quartz. The scheelite and powellite occurs as sparsely spaced crystals. Continuity of the mineralization appears along the bedding in fairly straight narrow lines, and is not uniformally distributed across the bedding. The scheelite is found in a series of parallel bands, sometimes only a crystal or two wide. The showings on the property are not impressive but a small exploration project is warranted to determine the merits of the property. The plans for exploration submitted by the applicant are reasonable and the adits and crosscuts proposed will determine the tungsten possibilities of the property.

Although the examining engineer recommends driving a crosscut (adit) as shown on section B-B', looking N.W. (fig. 6), Mr. Edgar H. Bailey of the Geological Survey and I question whether such exploration is justified based upon samples 1 and 2. We believe that more surface work should be done to prove whether this underground

work should or should not be carried out.

The docket and correspondence relating to it are being returned herewith.

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

Attachments

Copy to: E. H. Bailey, USGS

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

NOV 13 3 16 PM '51

UNITED STATES
DEPARTMENT OF THE
INTERIOR

Oscar L. Chapman, Secretary

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

# DMA-1621X, Bell Flat Tungsten Property

Churchill County, Nev.

E. J. Matson, Mining Engineer
U. S. Bureau of Mines

October 19, 1951

DOCKET DMA-1621X

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

# BELL FLAT TUNGSTEN PROPERTY
Churchill County, Nev.

## SUMMARY

The Bell Flat Tungsten property, located in the southern extremity of Churchill County, Nev., contains numerous small outcrops or showings of tungsten mineralization in metamorphosed limestone interbedded in calcareous schists.

Very little development work has been done on the property. One small shipment of sorted ore amounting to 6.7 tons and averaging 1.49% $WO_3$ was made.

## INTRODUCTION

The Bell Flat Tungsten property was examined by an engineer[1] of the Bureau of Mines on September 20 and 21, 1951, accompanied by Mark Harris, one of the owners. The examination was made in connection with an application for exploration assistance (docket DMA-1621X).

## LOCATION

The property location has not been surveyed in respect to any section corners but it is believed to be in sec. 6, T. 14 N., R. 34 E. of Churchill County, Nev. (fig. 1).

It is reached by driving easterly from Fallon, Nev., a distance of 57 miles along U. S. Highway 50 to the intersection with State Highway 23; thence traversing south on State Highway 23 for a distance of 15 miles to a road fork leading to the property. This road is then

1/ E. J. Matson.

traversed a distance of 10 miles westerly to the property. Note, U. S. Highway 50 and State Highway 23 are paved; the route to the mine from State Highway 23 is ungraded and is a dirt or desert road. There are no steep grades and the property can be reached in a modern touring car. The last two miles are silty and in wet weather might be difficult to traverse. Total distance to the property from Fallon is 82 miles and it is 25 miles from Gabbs, Nevada (fig. 1).

## HISTORY AND OWNERSHIP

The property was discovered and located in 1941 by Mark Harris, P. O. Box 297, Fallon, Nev., and comprised 12 unpatented mining claims known as Shelite, Shelite Nos. 1 to 5, inclusive, and Midnight, Midnight Nos. 1 to 5, inclusive. In 1943 the property was leased to F. W. Cook of Las Vegas, Nev. He drove a short adit 50 feet in length and later relinquished his lease.

A partnership was later formed by Mark Harris of Fallon, Nev., Fred T. Pine, and W. M. Brown, both of Las Vegas, Nev. Two of the above mentioned claims were dropped; namely, Shelite No. 3 and Shelite No. 4.

## DEVELOPMENT

Development consists of a 50-foot adit, driven on the strike of a mineralized bed, and a small open cut about 27 feet in vertical distance above the adit or about 50 feet along the dip of the beds. Several other small pits and the customary work as required by law to hold the claims constitute the development of the property.

## PHYSICAL FEATURES

The Bell Flat Tungsten property is situated on the eastern side of Slate Mountain at an elevation of an estimated 5,000 feet. The claims are in an area of moderate to rugged relief. The area is semi-arid, typical of the desert regions. Vegetation consists of desert grass, sage and greasewood in the lower regions and pinon trees at higher elevations.

Summer months are hot and arid. Winters are moderate to cold with only light snow falls. Snow falls are not severe enough to hamper working conditions.

A small 10- by 12-foot cabin is located on the property. It is suitable to accommodate one or two men.

No transmitted electric power is near the property.

No water supply has been developed, however, a supply could probably be developed by drilling a well in Bell Flat about one mile distant. The applicant claims to have two potential sources of water as shown by figure 2 (a spring and a well). No water was found at either place at the time of visit. The spring had indications of moisture at the spot shown and probably by digging or some development work might be able to furnish water for camp use and possibly mining needs. The well which is reported to be down 30 feet was caved up to within 6 feet of the surface and had no indication of water.

## DESCRIPTION OF THE DEPOSITS

The deposits are in a metamorphosed area of calcareous schists with interbedded lenses of limestone. The main geologic feature is a broad monocline dipping from 30° to 36° to the southeast, and

striking about N. 25° E. Within the area are aplite and rhyolite dikes on the northwest (fig. 2) and a granite mass at the east side. Minor folding occurs in the monoclinal structure, also faulting.

Scheelite with powellite occurs in the metamorphosed limestone within the schists. The limestone contains considerable epidote, garnet and quartz. The scheelite and powellite occurs as sparsely spaced crystals. Some of the crystals are 1/2-inch in diameter and closely follows bedding planes. Continuity of the mineralization appears along the bedding in fairly straight narrow lines, and is not uniformally distributed across the bedding. No thick bed of disseminated tungsten mineralization was noted. The scheelite is found in a series of parallel bands, sometimes only a crystal or two wide. Barren bands of epidote limestone are found between the mineralized planes. This is especially true in the adit and small open cut and adit (section A-A') fig. 4.

In the small pits (section B-B', fig. 6), the scheelite is sparsely disseminated, however not enough development work has been done to determine the general character of the mineralization. Parallel mineralized beds may occur between the small surface cuts in section B-B'.

Other small mineralized exposures were found, however, sections A-A' and B-B' were the most promising. Not enough exploration work has been done to determine the extent or thickness of the mineralized beds or to determine whether other parallel mineralized beds are present.

## SAMPLING

The ground was examined in daylight and the exposures were also observed at night with the aid of an ultra violet lamp. The scheelite all had a more or less yellow caste indicating the presence of powellite.

Five samples were taken as follows:

| Sample No. | Ft. Width | Percent $WO_3$ | Percent Mo | Place |
|---|---|---|---|---|
| 1 | 4.0 | 0.02 | | Lower pit on ridge. |
| 2 | 2.0 | 0.04 | | Upper pit on ridge. |
| 3 | 3.0 | 0.03 | | Right face in adit. |
| 4 | 2.0 | 2.41 | 0.08 | Open cut above adit. |
| 5 | Grab | 1.26 | 0.03 | Sorted ore at dump. |

(See figs. 3 and 5 for location).

## ORE RESERVES

No ore reserves of any consequence can be determined.

## PROPOSED EXPLORATION BY APPLICANT

The applicant first proposes to drive the adit (section A-A'), figures 2, 3, and 4, along the strike of the mineralized bedding for a distance of 175 feet, and to crosscut from the mineralized bed westerly to determine whether a parallel mineralized bed exists.

Next he proposes to drive an adit (section B-B', figs. 2, 5, and 6) 148 feet to crosscut the formation and intersect the two mineralized beds exposed on the surface. This work will prospect for parallel structures and determine the thickness of the mineralized beds.

## CONCLUSIONS

The showings on the property are not impressive but a small exploration project is warranted to determine the merits of the property.

The plans for exploration submitted by the applicant are reasonable and the adits and crosscuts proposed will determine the tungsten possibilities of the property.

The following sheets contain the itemized requirements and costs.

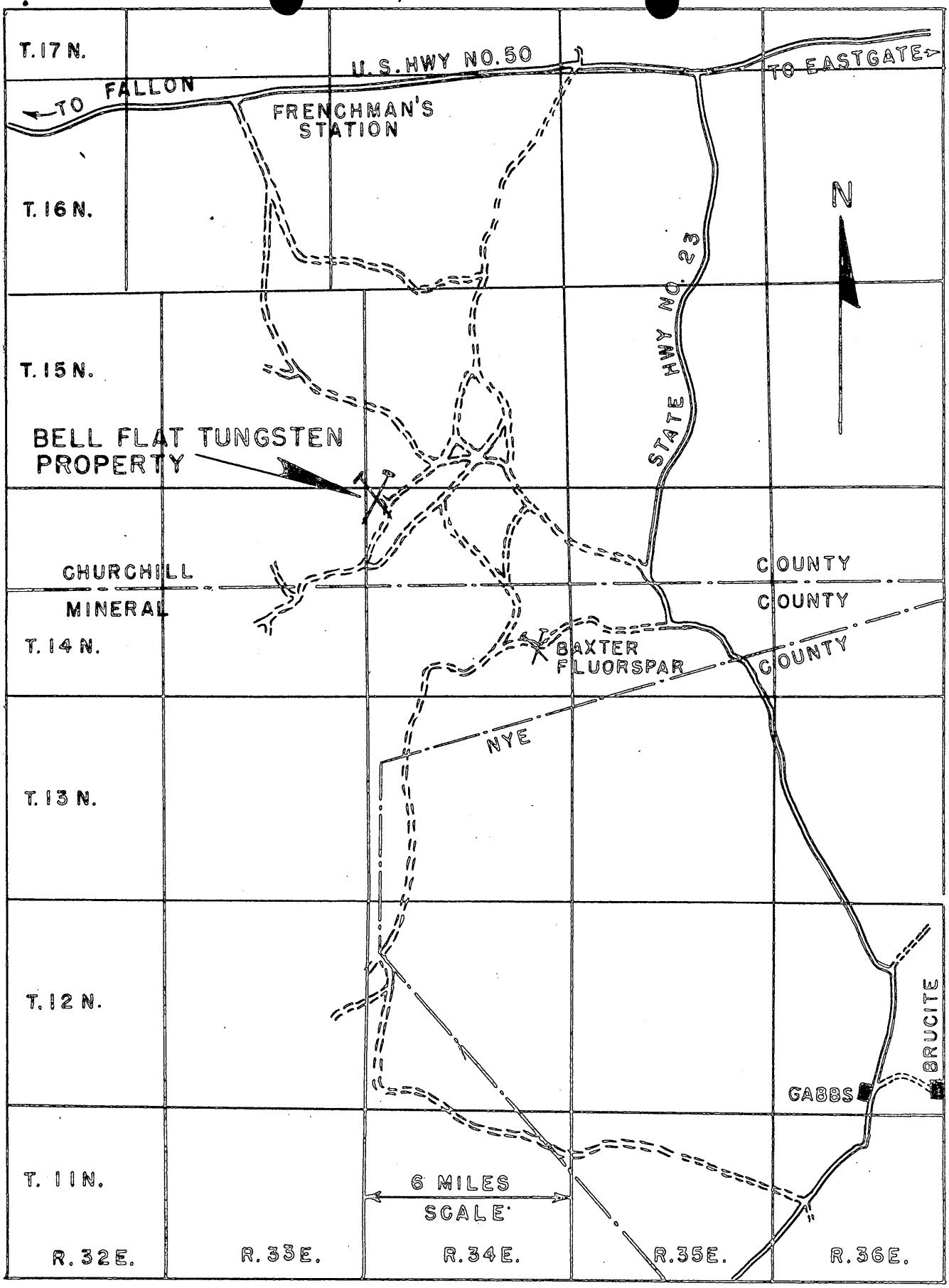


FIG. 1,—LOCATION MAP,—BELL FLAT TUNGSTEN PROPERTY, NEVADA.

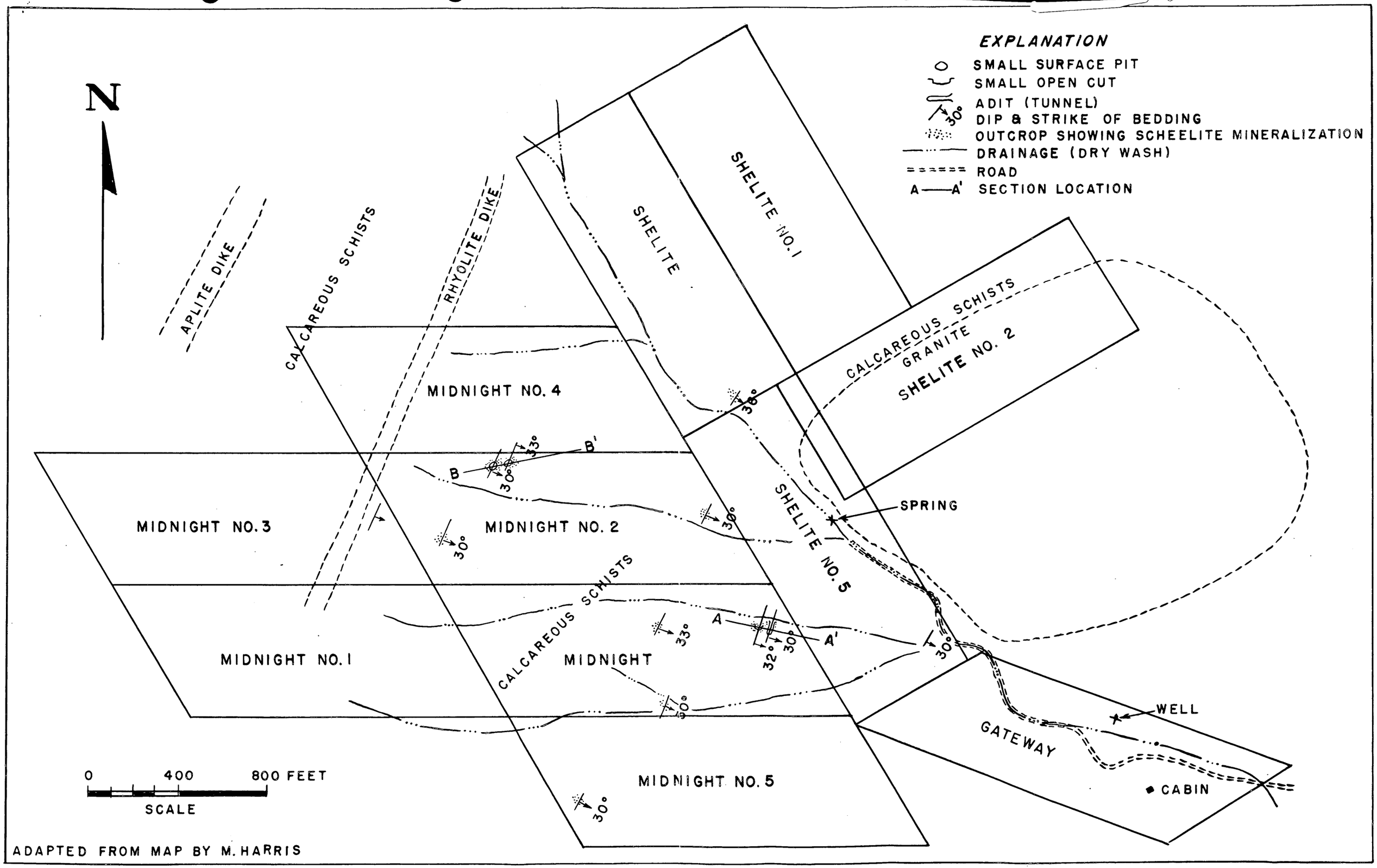


FIG. 2, — BELL FLAT TUNGSTEN PROPERTY, CHURCHILL COUNTY, NEVADA.

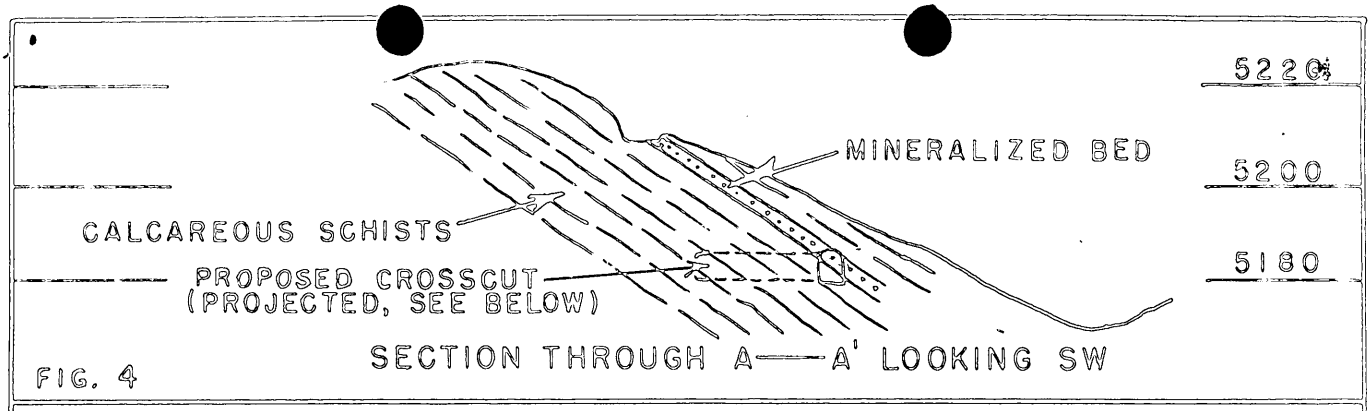


FIG. 4

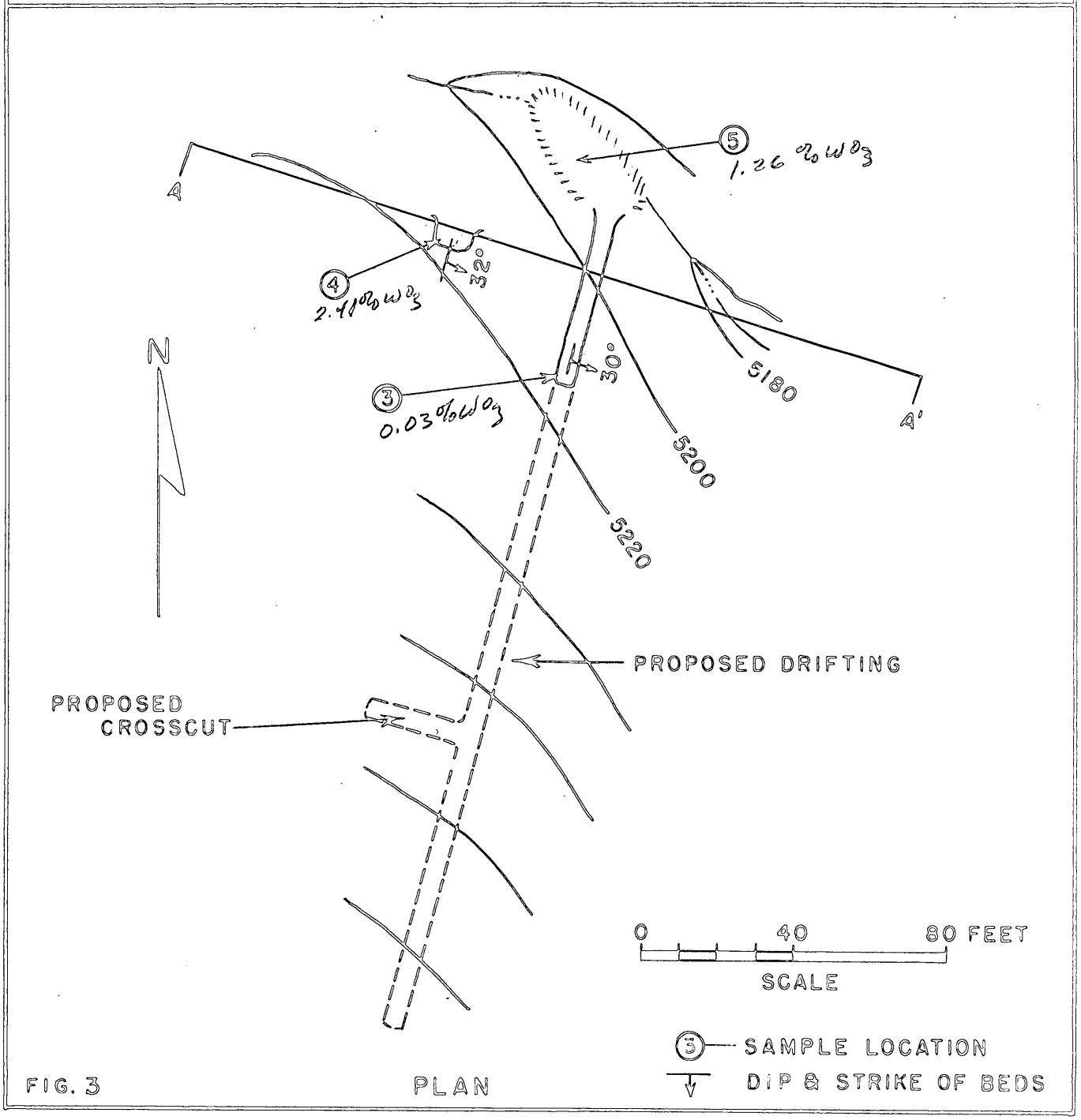


FIG. 3 PLAN

FIGS. 3 & 4.—PLAN AND SECTION SHOWING PROPOSED EXPLORATION BELL FLAT TUNGSTEN PROPERTY, CHURCHILL COUNTY, NEVADA

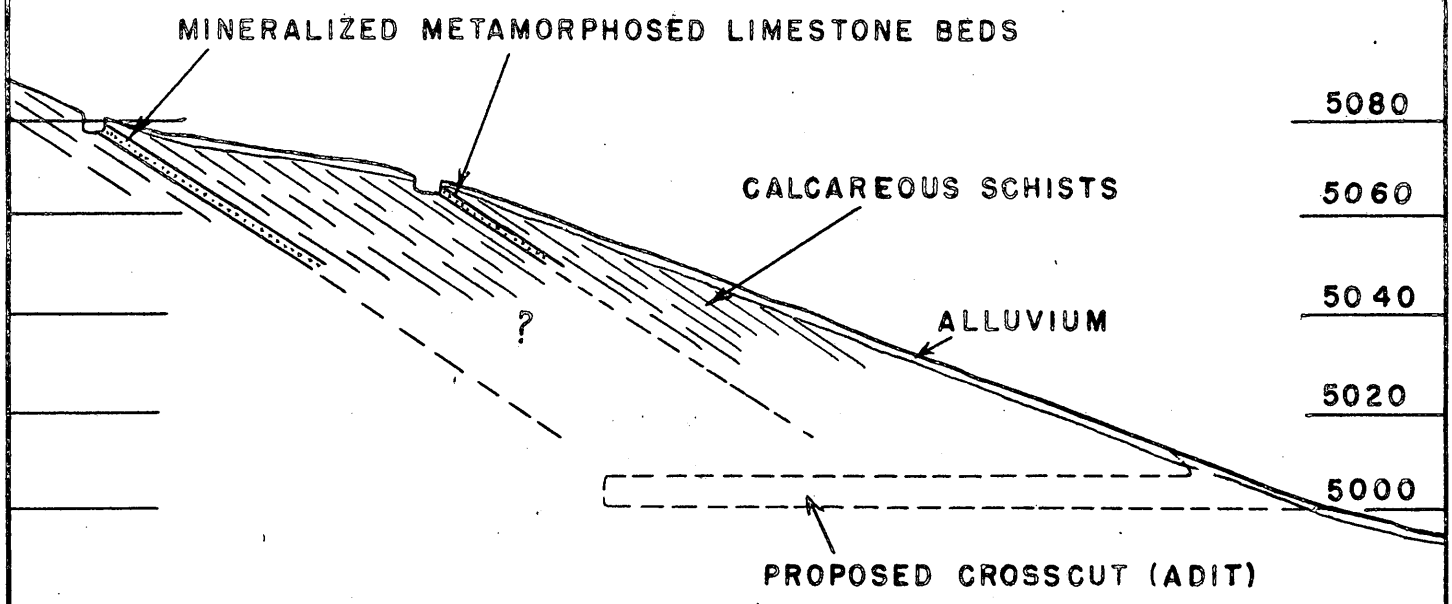


FIG. 6 SECTION B——B' LOOKING NW

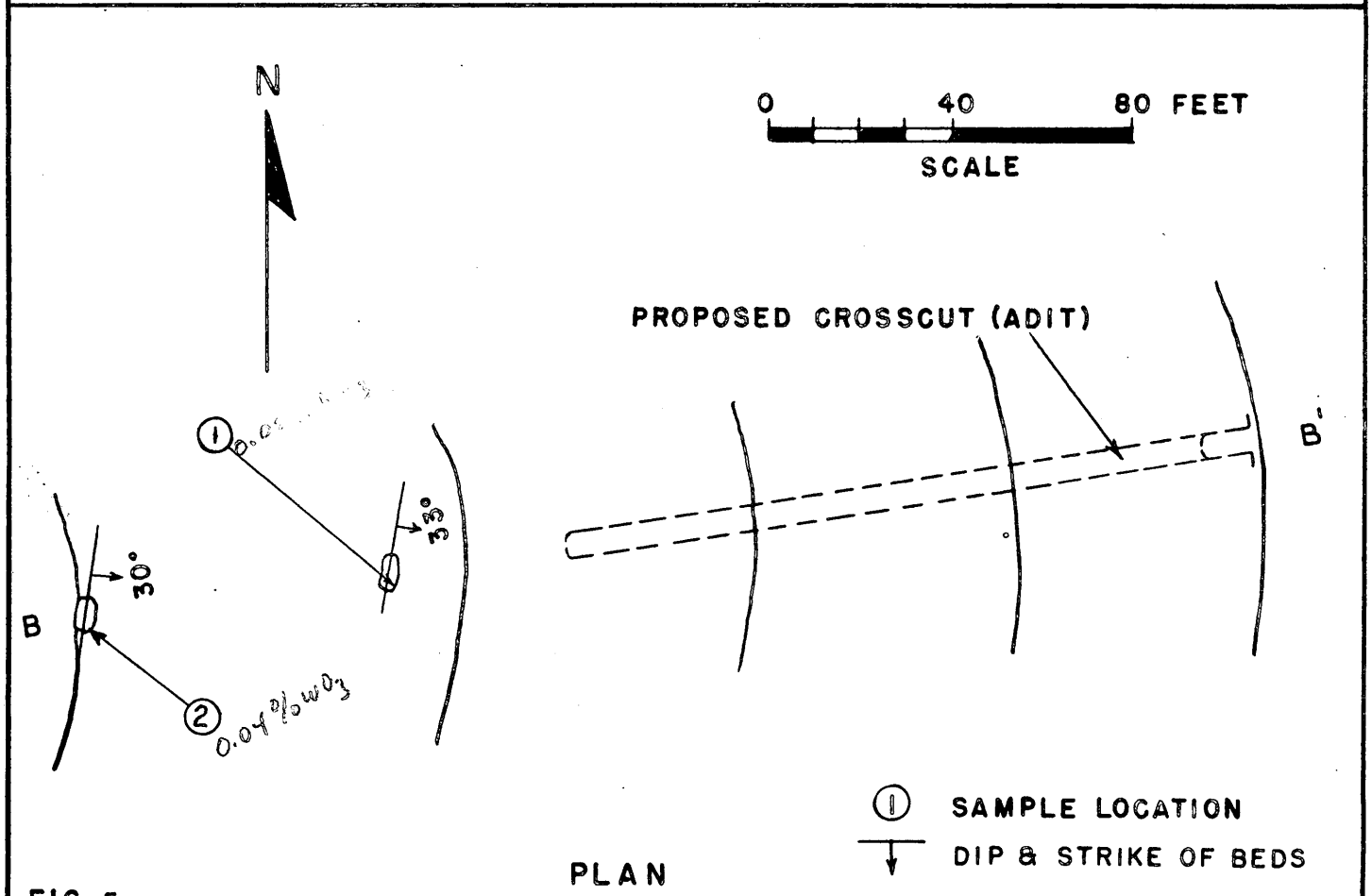


FIG. 5 PLAN

FIGS. 5 & 6, — PLAN AND SECTION SHOWING PROPOSED EXPLORATION BELL FLAT TUNGSTEN PROPERTY, CHURCHILL COUNTY, NEV.

REQUIREMENTS AND COSTS
over 6-month period

| | | |
|---|---|---|
| a. | 2 miners, 120 days @ $13.60 | $3,264 |
| | 1 truckdriver, 130 days @ $13.60 | 1,768 |
| b. | Supervision, $350/mo., 6 months | 2,100 |
| c. | Repairs | - |
| d. | Material for floor and frome of tent | 80 |
| e. | Compressor, jackhammer, steel, and hose, estimated purchase price from California Mining Journal adv., Sept. 1951 | 750 |
| | Mine car | 60 |
| | 400 feet of 8-pound rails | 90 |
| | 200 feet of 1¼-inch pipe | 50 |
| f. | Cost of rental equipment which operator proposes to rent | 0 |
| g. | Dodge pick-up, 1/2-ton, 4-wheel drive 6 mo. @ $25 | 150 |
| h. | 1000 feet mine lumber | 150 |
| | Powder, caps & fuse | 500 |
| | Gasoline and oil | 390 |
| | Drill bits, hand tools, misc. | 77 |
| i. | Insurance @ $8 per $100 | 571 |
| | | $10,000 |

Summary:

| | |
|---|---|
| Rehabilitation, clean out spring and erect tent with wood frame and floor | 200 |
| 148 feet of crosscut in upper workings @ $25/ft. | 3,700 |
| 175 feet of drift and 25 feet of crosscut @ $25/ft. | 5,000 |
| Equipment cost | 1,100 |
| | $10,000 |

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1621X

Date received

Participation

MARK HARRIS
928, 35th, STREET,
SACRAMENTO, CALIF.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $10,000.00

Mineral or metal TUNGSTEN

Percentage of Government participation 75

Location of mine Approx. Sec. 6, Twp., 14, R 34 E. in S.E. Churchill County, Nevada.

Date of filing MF-100

DMA Docket Number, if available

## INSTRUCTIONS

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

## THE APPLICANT

All questions answered on attached sheets.

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

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

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

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

16—64067-1

## THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

## THE REQUIREMENTS AND COSTS

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

## CERTIFICATION

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

BELL FLAT TUNGSTEN MINE
(Name of company)

By Mark Harris
(Signature of authorized official)

May 26, 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.**

*Same as footnote on page 1.

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

Mark Harris,
928, 35th, Street,
Sacramento, Calif.

1. The applicant is one of a three way partnership.

2. Mark Harris (Applicant) 928, 35th, Street, Sacramento, Calif.
Fred T. Pine - 500 North 7th, Street, Las Vegas, Nevada.
Wm. W. Brown - 1100 Elm Drive, Las Vegas, Nevada.

3. Not applicable.

4. (a) Mark harris, applicant is a graduate mining engineer ( Michigan College of Mines) with operating experinee in tungsten, mercury, and othersstrategic minerals.
(b) Fred T. Pine is an experienced miner, and cook.
Wm. W. Brown is an experienced accountant, and knows mining only from experience with us on this property.
Fred T. Pine will supervise the work in my absence, but I expect to do all the engineering work, and be active, part time, on the job.

5. Owners.

6. No claims, liens, or encumbrances against the property.

7. Not applicable.

8. Only a prospect so no financial statement can be submitted.

9. We will put up $2500 in cash and labor as our share of the work. This is sufficient to cover all costs set forth in question 23.

10. (a) Ten claims located according to mining laws, are on file in the courthouse at Fallon, Nevada. Location work, assessment work, and notices of intent to hold under the moratorium, are all duly on record.
(b) Approximately in Section 6, Twp.,14 N; R 34 E, Just below Slate Mountain, as shown on enlosed section of the Carson Sink, Nevada, contour map of the U. S. Geological survey.

11. As the original discover of this property, no work has ever been done on it.

12. Property is 15 miles out from the intersection of Highway 50 with Highway 23, where you turn right and follow a dirt road 10 miles to the mine. All roads are paved except the 10 miles to the mine. From Fallon, by this route, it is 72 miles. Going the other way on Highway 23, it is 25 miles to Gabbs, and 58 miles to Lunning, Nevada. Fallon and Lunning are both on the railroad. No heavt grades on the road to the mine, but the road needs gradings to eliminate high centers. We have extended the road to reach the tunnel and open-cut where we are now working.

13. A 15 foot shaft on the contact between the granite and schists, is filled up with dirt, but enough water is available for mine use. During the Rawhide Gold boom, this source of water was used to butcher and dress beef for sale in that camp. Old timers say if this well is cleaned out it will run a 2 inch pipe ful of water. Power will have to come from gasoline engines as no other power is available.

Mark Harris,
928, 35th, Street,
Sacramento, Calif.

14. A 10 x 12 cabin in good condition is available.

15. At present, ore would have to be shipped to Bishop, Calif., for treatment in a custom mill. Hauling and milling charges there are excessive.

16. (a) I discovered the property in 1941, when I found minerals and conditions that go with the deposition of Scheelite, and followed them up to find the deposit. Work done to date, has only been enough to hold the property under legal mining laws. However, this work has exposed good showings of ore. By extending an open cut on the Midnight Claim, we have opened what promises to be a good ore-shoot. The shoot rakes to the right at a flat dip, and a tunnel started below, on the cropping of the vein in the Wash, is not in far enought to cut it. However, this tunnel shows good bunches of ore on both walls, and ore starting to come in the center of the vein in the last few shots, indicating we are approaching the outer margin of an ore shoot.

6.7 tons of mine run ore, taken from this open cut, were shipped to Bishop for a test run. The ore assayed 1.49 percent WO3, and the shipment netted us $279.24. The mill only paid $36.00 per unit, F.O.B. mill, when the market quotation was $73.00 per unit. This is too much of a differential, and we can make more money by putting in a small mill and making our own concentrates.

In 1941, I shipped 100 pounds of picked scheelite specimens to Ward's Mineral Establishment, Rochester, N.Y. for sale to mineral collectors, and netted $25.00 on the shipment. These specimans came from a highgrade stringer 100 feet above the open-cut, where a quartz concentration showed in the vein.

(b) The Nevada-Scheelite Mine has been in production for the past 25 years, and has produced some $20,000,000 worth of tungsten. It is still a large producer. This mine is on the margin of the same granite batholith as we are. Several other properties on the margin of this batholith, have produced at a profit, and one, S.E. of Schurz, is now resuming operations. The Nevada-Scheelite is 7 miles S.W. of our property. 20 miles S.E. of our property, the Gabbs Exploration Co., has opened up a deposit of tungsten that may be one of the largest in the state. Their 100 ton modern mill, at Gabbs, was put into operation about 6 weeks ago and is running to capacity.

not true DMC

(c) Map of the property enclosed and several assay reports, shows the location and value of the surface showings. The letter from Percy C. Dobson is self explanatory. Mr. Dobson is Gen'l Mgr., of the Summit King Gold Mine, owned by the Bralorne Corp of Canada. He looked at the property a month after I discovered it, and before any work had been done. Present workings where ore has been opened up and a truck load shipped, had not been found at that time. The assays he took were on the She-Lite and Midnight No. 2, .8 % and .4% as shown on the map.

17. The mine is not developed for production, and all ore shipped are set forth in question 16. However, at the present price of 63.00 a unit for the next five years, what was too low to mine at a profit at 24.00 per unit, is now commercial ore, if it can be mined and milled on the property.

Mark Harris,
928, 35th, Street,
Sacramento, Calif.

18. (a) The ore comes in metamorphosed limestone beds in a schist series. These beds, two and possibly three, average 5 feet in width, and can be traced for some 2,000 feet from the granite contact. They dip at an angle of about 30 degrees, and have been completely changed to garnet, epidote, and quartz. The best grade of ore seems to favor the epidote.

(b) Map and available assys are enclosed. Reports on the ore shipped to Bishop are with my partner in Las Vegas, and not available at this time.

(c) Estimated tonnage in sight is based on 7.5 cubic feet per ton in place, and is conservative.

10. [illegible] available [illegible]

1. Open-cut on Midnight claim, where ore was mined and shipped last March, shows at least 75 tons of ore that will average 1.5 percent.

2. A large block of ore on the point, on Midnight No. 2 claim has been cut with a test shaft showing 5 feet of ore assaying .4 percent. This block is about 100 feet square, but I am estimating the ore in a block 40 feet square. 1,000 tons available

3. 18 inches of ore below the monument on the She-lite claim assayed .8 percent. The ore is exposed for 50 feet down the dip, and an estimate of 50 tons here is not out of line.

4. A foot of ore exposed for 100 feet down the dip in the wash below the well, is estimated to run .5 percent. 50 tons should be available here.

5. 4 feet of ore on the side line of Midnight No. 5 claim is estimeted to average .5 percent. 50 tons could easily be mined here.

19. With the ore showings in sight, a well planned operation can develop enough ore to justify the installation of a 10 or 20 ton mill. With favorable topography for mining and hauling the ore, down hill to a mill site close to the water supply, everything is favorable to an economic operation.

20. Tungsten is the ore to be explored. However, above the ore showings and on the property, is a large Rhyolite Dike cutting the schists. This dike is post-mineral and a large section of it grades off into volcanic glass (pitchstone) that might have some value. Recent research carried out by chemists at the University of Oregon, show that such volcanic glass can be used as a substitute for high priced feldspars in the Ceramic industry. It is worth investigating.

21. A six month program is planned, which if successful will be followed by an application for a development loan. The initial expense of buying a compressor, drill, and tools, will make the first months outlay higher. After that the monthly cost will only cover labor and supplies. First, open cuts and short tunnels will be run on present showings of ore. At the same time, the present tunnel will be extended to determine if the ore above goes down. If it does, then dropping down the wash below the high cliff and driving a cross-cut 75 feet to intersect the vein would be good mining. Drifts run on the vein at this depth, 175 feet below the present tunnel, would prove if the values go down. While diamond drilling could easily cut the veins at depth, the ore-shoots could easily be missed by the drill holes.

Mark Harris
928, 35th, Street,
Sacramento, Calif.

22. Production from other mines on the margin of this granite batholith, prove that commercial ore bodies have been formed. The geologic structure is very similar to Mill City where metamorphosed limestone beds occur in a Hornfel series. On our property, metamorphosed limestone beds occur in a schist series. The continuity of the veins away from the contact for 2,000 feet and the complete replacement of the limestone by contact metamorphic minersl with scheelite, is indicative of substantial ore shoots, as ore is found over a wide area along the strike of the veins.

23. (a) I will supervise the engineering work and devote part time to the job. My partner, Fred T. Pine will spend full time on the job and supervise it. My other partner, Wm. W. Brown will spend part time on the job, and take care of keeping all required records. My son, a good experienced miner, will work full time on the job, so we have no labor problem. Average wages of the area will be paid each of us for time devoted to the job, with no extra pay for technical knowledge.

(b) Answered in (a).
(c) No repairs needed on present cabin.
(d) Another cabin will be required. This cost should not exceed $250.00
(e) We must buy a compressor, drill, steel, and some other tools for mining. a 210 Cu. Ft. compressor, drill, and steel, should not cost over $2,000 as good used machinery is available.
(f) None
(g) Partners have 3/4 ton, four wheel drive, Dodge Pickup which can be used to haul supplies and take care of ore mined that has to be stock-piled. The rental should not exceed $1.00 a day
(h) Cost of powder, fuse, gas, oil, and other supplies needed should not exceed $250.00 a month.

24. The time schedule willbe based on development of surface showings first, and then proving if ore exposed goes to depth. The work as outlined in question 21, will becarried out only if development warrants it. This work should give valuable information on the extent of ore deposition, and prove if commercial ore is available. The estimated cost of $10,000 for this work, should be ample to prove the deposit.

IRON + FERRO-ALLOYS

DEPARTMENT OF THE INTERIOR
RECEIVED
NOV 20 1951
Defense Minerals Administration,
Production Expansion Division.

P.O.Box 297
Fallon, Nevada
15, Nov. 1951

Defense Minerals Administration
Washington, D.C.

Att'n: Chief, Tungsten Branch

Dear Mr. Holderer: Re: DMA-1621K Tungsten

Referring to your letter of 13, Sept, an examination of our tungsten property was made by a Bureau of Mines Engineer on 19, Sept., and his report submitted to your office. I will greatly appreciate information on what action has been taken on this report, to approve or dis-approve my application for an exploration loan.

Since our finances are limited, time is an element in future operations. Two large companies have had their representatives look over the property in the past month, and both want to take it over on a lease and purchase option. If we cannot work it ourselves, we don't want to pass up an opportunity to get the ore showings developed. Thus, an early decision on our application for a loan is important in deciding the next step we should take.

Very truly yours,

Mark Harris.

Mark Harris

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
Nov 19 1 46 PM '51

September 14, 1951

Mr. Mark Harris
928 - 35th Street
Sacramento, Calif.

Dear Mr. Harris: Re: Docket DMA-1621X, Bell Flat Tungsten

In reference to your application for aid for an exploration project on the above tungsten property pursuant to Mineral Order 5, under the Defense Production Act of 1950:

An engineer from this office will be available to examine your property on September 18, 1951. It would be appreciated if you would stop at the Bureau of Mines office on the University Campus, Reno, Nevada, on the morning of the aforementioned date in order to accompany and direct the engineer to your property. Please wire or telephone this office (Reno 3746) if the date is suitable for you.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

cc: E. J. Matson
Files

Mark Harris
P.O. Box 297
Fallon, Nev.
Hart Apt. phone 35 R1

Acknowledged 9/24/51

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~BUREAU OF MINES~~
~~REGION III~~
DEFENSE MINERALS ADMINISTRATION

OFFICE OF
~~REGIONAL DIRECTOR~~
Executive Officer
DMA Field Team
Region III

~~1415 APPRAISERS BLDG.~~
~~630 SANSOME STREET,~~
~~SAN FRANCISCO 11, CALIF.~~

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

Sept. 11, 1951

Memorandum

To: A. C. Johnson - Reno, Nevada

From: Executive Officer, DMA Field Team, Region III

Subject: DMA-1621X--Tungsten
Mark Harris, 928 35th St., Sacramento, Calif.

Attached is subject docket which has been considered by Region III DMA Field Team. We have agreed that the matter of making a field examination and getting the applicant to complete the necessary exhibits for a contract can be handled by one of your engineers. However, should the services of a geologist be deemed advisable, you should get in touch with Mr. Bailey, of the Survey.

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

Attachment (docket)

Copy to: E. H. Bailey, USGS

FILE COPY
SURNAME:

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

Holderer

SEP 13 1951

G.E.C.

Mr. Mark Harris
P. O. Box 297
Falloh, Nevada

In reply please refer to
DMA-1621X Tungsten

Dear Mr. Harris:

This is in reply to your letter of August 30, 1951.

A request for a field examination went out of this office September 5, 1951. You will be advised by Mr. H. C. Miller, Regional Director for Defense Minerals Administration in San Francisco, when it will be possible for him to send a man to your property.

In the meantime, however, it might be advisable for you to contact him by telephone in the endeavor to speed things up.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

JF 9/13

GBHolderer:ll
9/13/51
CC: ~~Fiks~~ Reports and Records Unit
Adm. Reading File
Mr. Holderer

9/13/51

Mr. Mark Harris
P. O. Box 297
Falloh, Nevada

In reply please refer to
DMA-1621X Tungsten

Dear Mr. Harris:

This is in reply to your letter of August 30, 1951.

A request for a field examination went out of this office September 5, 1951. You will be advised by Mr. H. C. Miller, Regional Director for Defense Minerals Administration in San Francisco, when it will be possible for him to send a man to your property.

In the meantime, however, it might be advisable for you to contact him by telephone in the endeavor to speed things up.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

GBHolderer:ll
9/13/51
CC: ~~Rikm~~ Reports and Records Unit
Adm. Reading File
Mr. Holderer

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

# REFERENCE SLIP

DATE 9-3-51

REFERRED TO:

1. Code 340
2.
3.
4.

SEP 4 1951
Read. by
Mr. Holderer

FOR:

| | |
|---|---|
| ..... Action | ..... Recommendation |
| ..... Approval | ..... Record of ..... |
| ..... Comment | ..... Referring to ..... |
| ..... Conference | ..... Reply for signature of ..... |
| ..... Consideration | ..... Rewriting |
| ..... Filing | ..... Signature |
| ..... Instructions | ..... Suggestions |
| ..... Investigation | |
| ..... Initials | |
| ..... Mailing | |

340

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
SEP 4 10 54 AM '51

P.O. Box 297
Fallon, Nevada
Aug. 30, 1951

Defense Minerals Administration
Att'n: Chief, Tungsten Branch
Washington, D.C.

Reference: DMA-1621-X -- Tungsten

Gentlemen:

Reference is made to my request of July 25th, asking that a competent engineer examine our tungsten showing in order to expedite our application for an exploration loan to prove if commercial ore is available. Private capital is developing a half a dozen properties within a radius of 20 miles of our property, and opening up good deposits of Scheelite. They want to take over ours, but when we say we want to get a Government loan and open it up ourselves, they just laugh and say - "try and get one." Under present conditions I am inclined to agree, and many other small miners and prospectors in this area are skeptical that Government aid to open up their showings is more a paper program than one that will actually do something in the field.

I just finished reading Senator Lyndon B. Johnson's subcommittee report on tungsten, and his criticism of Government inaction. If the need for tungsten is so critical why does it take so long to get action on an application to open up a worthwhile showing of tungsten - one that a number of private engineers have looked at and like? The small operator is losing faith in what the Government proposes to to do to help develop his property - he cannot wait forever to get action and make a living at the same time.

Is there any possibility of getting a yes or no on our application? If the answer is no, then we can let the big operator take it over and take the cream, but we would like to prove our property enough to justify a decent return for our work. Send an engineer out to look it over and I will show him ore in place that 30 days work with a Bulldozer and compressor, can block out 15,000 tons of ore that will average 0.5 percent $WO_3$. Without equipment or a place to sell or mill that grade of ore, we are stymied. A buying depot in this area could get 150 tons of mill ore per day. It's not being taken out because the small operator is waiting and praying that his Government will come to the rescue.

Respectfully yours,

Mark Harris

Mark Harris.

9/5/51

Mr. Mark Harris
92[illegible] 35th Street
Sacramento, California

In reply please refer to
[illegible]-16[illegible] Tungsten

Dear Mr. Harris:

Your application for an exploration lease has been referred to Mr. [illegible] Miller, Executive Officer, Region III DMA Field Team, 1012 Flood Building, 870 Market Street, San Francisco 2, California for a field examination.

Mr. Miller or his engineers will contact you in the near future.

Very truly yours,

SIGNED Sept 6/51

Tom Lyon
Director, Supply Division

TJBellard.11
August 30,195[illegible]
CC
Files
Adm. Reading Files
Report and Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

Mr. Mark Harris
923 35th Street
Sacramento, California

In reply please refer to
SM-16.1X Tungsten

Dear Mr. Harris:

Your application for an exploration loan has been referred to Mr. H. C. Miller, Executive Officer, Region III DMA Field Team, 1012 Flood Building, 870 Market Street, San Francisco 2, California for a field examination.

Mr. Miller or his engineers will contact you in the near future.

Very truly yours,

Tom Lyon
Director, Mapping Division

TJPellard:ll
August 30,195
CC
Files
Adm. Reading Files
Report and Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Hoderer
Field Team, Region III

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

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

Dear Sir:

We attach "Review of Application for Exploration Assistance"

on:

Docket No. DMA-1621 X Tungsten

Commodity Tungsten

Applicant Mark Harris, 928 35th St. Sacramento, California

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

List of File to Field DMA -1621 X Tungsten

1- Form MF-103 with following attachments;

4- sheets typed answers
1- photostat location map
1- assay sheet
1- blue print claim map

1- letter Union Corbide to Pine 1/10/51
1- letter Harris to Miller 5/26/51
1- letter Summit King Mines to Harris 6/28/41
1- Copy letter Holderer to Harris 7/9/51
1- letter Harris to DMA 7/25/51

List of File to Field DMA -1621 X Tungsten

1- Form MF-103 with following attachments:

4- sheets typed answers
1- photostat location map
1- assay sheet
1- blue print claim map

1- letter Union Corbide to Pine 1/10/51
1- letter Harris to Miller 5/26/51
1- letter Summit King Mines to Harris 6/28/41
1- Copy letter Holderer to Harris 7/9/51
1- letter Harris to DMA 7/25/51

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

Mailed out
9/5/51

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

Dear Sir:

We attach "Review of Application for Exploration Assistance"

on:

Docket No. DMA-1621X Tungsten

Commodity Tungsten

Applicant Mark Harris, 928 35th St.
Sacramento, California

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

8/28/51
Sent 9/5/51

Review of Application for Exploration Assistance

Field Referral

Docket No. 1621 X

Commodity Tungsten

Total Amount $10,000

75% Govt. Participation $7,500

1. Name and Address of Applicant Mark Harris, 928 35th St., Sacramento, California

2. Location of Property Approximately Sec. 6, Twp. 14, R. 34 E in S.E. Churchill County, Nevada

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

If not, application will be rejected.

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

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

a) Good_____

b) Poor_____

c) None_____

d) Don't know—needs field examination Check

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

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

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

Does the lease have sufficient time to run to cover a future productive period?_____

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

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

a) Available manpower Check

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

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* No electric power available

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

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

Is a field check needed on this point? No

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

a) Is the project adequately described? No

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

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

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

If not, what part of it is? _____

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? No

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

e) Are the cost estimates reasonable? Check

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.

c) Is a field check needed? NO

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? Yes

d) Is a field check needed? Yes

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

a) Are there sufficient data? ~~Yes~~ No

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

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

d) Are the proposed wages and salaries reasonable? Not shown

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? It appears that more surface exploration should be done before attempting underground work.

Please assist the applicant in completing the necessary exhibits if the property merits further consideration.

Reviewed by: J. J. Ballard

T. P. Thayer

Date 8/28/51



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

List of File to Field 8/29/51

DMA-1621X Tungsten

1- Form MF-103 with following attachments:
4 sheets typed answers
1 photostat location map
1 assay sheet
1 Blueprint claim map
1- letter Union Carbide to Pine 1/10/51
1- " Harris " Miller 5/26/51
1- " Summit King Mines to Harris 6/28/41
1- Copy letter Holderer to Harris 7/9/51
1- letter Harris to DMA 7/25/51

FILE COPY
SURNAME:

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

Selfridge
Lembrand
Ely
Geb

July 9, 1951

Mr. Mark Harris
928 35th Street
Sacramento, California

In reply please refer to:
DMA-1621-X — Tungsten

Dear Mr. Harris:

We have carefully reviewed your application for an exploration project costing $10,000 at the Bell Flat tungsten prospects, Churchill County, Nevada. It appears to us that insufficient trenching and sampling has been done on the surface, and that proposals for underground work are premature. Your statement lists 2 samples taken by Mr. Dobson on the Scheelite and Midnight No. 2 claims assaying 0.8 and 0.4 percent of $WO_3$, one sample taken by yourself on the Midnight claim assaying 1.5 percent, and a bulk sample of the same ore amounting to 6.7 tons which was sold to the Pine Creek mill of U. S. Vanadium Corporation at an assay of 1.49 percent. These 4 samples appear to represent small pods of ore rather than continuous mineralization in veins or beds.

It appears that some good tungsten ore is present in the open cut on the Midnight claim. It also appears from samples taken during World War II by a Government engineer that much of the fluorescent material on the claims is powellite, the assays of which were disappointingly low in tungsten.

Your comments on the high cost of custom milling at the Pine Creek mill are partly true for ores containing more than 1.0 percent of $WO_3$. For lower-grade ores, however, it can be shown that the milling charges are not unreasonable inasmuch as payments are based on 100 percent recovery compared to an expectable recovery of 60 to 70 percent in a small plant such as you might erect on your claims. The high molybdenum content in your ore necessitates chemical digestion of the concentrates for purification, an expensive procedure. When these factors are taken into consideration, a price of $18 per ton of ore assaying 0.5% $WO_3$ is not out of line when finished concentrates are priced at $65 per unit. Incidentally, we do not know of any sales of domestic tungsten concentrates at prices above $65 per unit during 1951.

DMA 1621

8576

If your analysis of costs shows that the transportation to Bishop is too expensive, even though recovery is higher, you might be able to arrange for custom-milling at the Nevada Scheelite, Gabbs, or Nevada Tungsten Corp. mills.

We are enclosing a copy of form MF-200, the exploration contract, for your information so that you can see what exhibits are necessary as part of the contract. Exhibit A is particularly important, and should consist both of a statement and a map showing precisely what work is to be done under the contract. The location and length should be given of all proposed trenches, adits, shafts, raises and other work. If you wish to provide the necessary exhibits, we will consider your application further.

Very truly yours,

George B. Holderer

jam

George B. Holderer
Chief, Tungsten Branch

Enclosure

DMLemmon:awj

cc:Adm. Reading
File
McCarran
Field Team III
Mr. Lemmon
Mr. Holderer
RECORDS + REPORTS UNIT

FILE COPY
SURNAME:

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

June 19, 1951

Mr. Mark Harris
928 - 35th Street
Sacramento, California

Subject: DMA-1621X
Re: Exploration Loan
Bell Flat Tungsten
Property

My dear Mr. Harris:

Receipt is acknowledged of your application and attachments of May 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1621X and was referred to Mr. George B. Holderer, Chief, Tungsten Branch on June 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1621X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
Holderer
Lyon

Docket 1621

452

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Region III

1415 Appraisers Bldg.
630 Sansome Street
San Francisco 11, Calif.

May 29, 1951

Memorandum

To: Defense Minerals Administration, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Application for Aid for an Exploration Project

The attached application was received in this office on May 28, 1951.

Applicant: Mark Harris
928 - 35th Street
Sacramento, California

Date of Application: May 26, 1951

Estimated Cost: $10,000.00

Mineral or Metal: Tungsten

Percentage of Government Participation: 75%

Location of Mine: Approximately Sec. 6, Twp., 14, R 34 E. in S. E. Churchill County, Nevada.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
RECEIVED
SEP 13 1951
SAN FRANCISCO, CALIFORNIA

SEP 5 1951

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

Dear Sir:

We attach "Review of Application for Exploration Assistance"

on:

Docket No. DMA-1621 X Tungsten

Commodity Tungsten

Applicant Mark Harris, 928 35th St. Sacramento, California

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

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Clay T. Roop
For Geological Survey

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
Nov 13 3 16 PM '51

6/5/51

8/28/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Field Referral

Docket No. 1621-X

Commodity Tungsten

Total Amount $10,000

75% Govt. Participation $7,500

1. Name and Address of Applicant Mark Harris, 928 35th St., Sacramento, California

2. Location of Property Approximately Sec. 6, Twp. 14, R. 34 E in S.E. Churchill County, Nevada

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

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination Check

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

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

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

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

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

a) Available manpower Check

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

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* No electric power available

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

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

Is a field check needed on this point? No

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

a) Is the project adequately described? No

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

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

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

If not, what part of it is? _____

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? No

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

e) Are the cost estimates reasonable? Check

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.

c) Is a field check needed? NO

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? Yes

d) Is a field check needed? Yes

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

a) Are there sufficient data? ~~Yes~~ No

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

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

d) Are the proposed wages and salaries reasonable? Not shown

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? It appears that more surface exploration should be done before attempting underground work.

Please assist the applicant in completing the necessary exhibits if the property merits further consideration.

Reviewed by: J. J. Ballard

T. P. Thayer

Date 8/28/51



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

340

FILE COPY
SURNAME:

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

G. E. C.

Mail Card
Selfridge
Gerhard
Thayer
Lyon
Moon

SEP 5 1951

Mr. Mark Harris
928 35th Street
Sacramento, California

In reply please refer to
DMA-16211 Tungsten

Dear Mr. Harris:

Your application for an exploration loan has been referred to Mr. H. C. Miller, Executive Officer, Region III, DMA Field Team, 1012 Flood Building, 870 Market Street, San Francisco 2, California for a field examination.

Mr. Miller or his engineers will contact you in the near future.

Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

J.F.-9-6

TJBallard:11
August 30,1951
CC:
Files
Adm. Reading Files
Reports and Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

340

SEP 5 1951

Mr. Mark Harris
928 35th Street
Sacramento, California

In reply please refer to
DMA-1621X Tungsten

Dear Mr. Harris:

Your application for an exploration loan has been referred to Mr. H. C. Miller, Executive Officer, Region III, DMA Field Team, 1012 Flood Building, 870 Market Street, San Francisco 2, California for a field examination.

Mr. Miller or his engineers will contact you in the near future.

Very truly yours,

Tom Lyon
Director, Supply Division

TJBallard:ll
August 30,1951
CC
Files
Adm. Reading Files
Reports and Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

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

SEP 5 1951

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

Dear Sir:

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

Docket No. DMA-1621 X Tungsten

Commodity Tungsten

Applicant Mark Harris, 928 35th St, Sacramento, California

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

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Olaf P. Rove
For Geological Survey

CC Reports and Records Unit
Coordinating Committee
Mr. Holderer

6/5/51

8/28/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Field Referral

Docket No. 1621 X

Commodity Tungsten

Total Amount $10,000

Govt. Participation 75% $7500

1. Name and Address of Applicant Mark Harris, 928 35th St. Sacramento, California

2. Location of Property Approximately Sec. 6, Twp. 14, R. 34 E in S.E. Churchill County, Nevada

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

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination Check

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

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

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

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

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

a) Available manpower Check

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

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* No electric power available

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

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

Is a field check needed on this point? No

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

a) Is the project adequately described? No

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

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

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

If not, what part of it is? _____

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? No

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

e) Are the cost estimates reasonable? Check

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.

c) Is a field check needed? NO

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? Yes

d) Is a field check needed? Yes

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

a) Are there sufficient data? ~~Yes~~ No

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

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

d) Are the proposed wages and salaries reasonable? Not shown

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? It appears that more surface exploration should be done before attempting underground work.

Please assist the applicant in completing the necessary exhibits if the property merits further consideration.

Reviewed by: J. D. Ballard

E. R. Lilley

T. P. Thayer

Date 8/28/51



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

1621X

H. has given no new information in response to letter of July 9

What does Selfridge have to say about the $50,000 offer.

Evidently Harris cannot supply adequate information

I suppose it will have to go to the field

TPT 8/27/51

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

AUG 2 1951

Rec'd by Mr. Holderer

# REFERENCE SLIP

DATE JUL 27 1951

REFERRED TO:

1. ~~Mr. Selfridge~~
2. MR. HOLDERER
3.
4.

Rm 3624

FOR:

| | |
|---|---|
| ..... Action | ..... Recommendation |
| ..... Approval | ..... Record of ..... |
| ..... Comment | ..... Referring to ..... |
| ..... Conference | ..... X Reply for signature of ..... |
| ..... Consideration | ..... Rewriting |
| ..... Filing | ..... Signature |
| ..... Instructions | ..... Suggestions |
| ..... Investigation | ..... Your information |
| ..... Initials | |
| ..... Mailing | |
| ..... Previous correspondence | |

REMARKS: .....

Check (X) before the items needing attention.

LANDON F. STROBEL

CMB

*Initials of sender.*

GPO 16—63815-1

Mr. Selfridge

P.O. Box 297
Fallon, Nevada.
July 25, 1951

JUL 29 1951
MILDOR F. STRUBEL
Executive Secretary

Defense Mineral Administration
Washington, D.C.
Att'n: Mr. George C. Selfridge

Reference:
DMA-1621-X--Tungsten

Dear Mr. Selfridge:

Replying to your letter of July 9th, requesting further information on our application for an exploration loan, the following is submitted:

Exhibit A: Reference map submitted with application MF-103

Open cuts and trenches to expose the veins along the strike will be run on the She-lite, She-lite No. 1, Midnight, Midnight No.2, and Midnight No. 5 where present cropping of ore indicate substantial ore bodies can be proved for 2,000 feet along the strike of the veins away from the contact of the exposed granite plug. This work will be done about every 100 feet to expose and sample the ore.

Exhibit C: We will have to buy or rent a compressor to do this work, and want authorization to do this.

Exhibit B: The well must be cleaned out to furnish water for operating,

In reference to your statement that an examination made by a government engineer during the War, showed mostly Powellite, I don't know who made this examination or what he looked at. I know of only one place on the property that shows powellite, and that is in the bottom of the main wash where anyone would walk over it. All other showings of the veins expose enough scheelite to justify exploration. All I ask is an opportunity to take a government engineer over the ground, and show him what is in sight: 3 feet of ore in the open cut that will average over 1 percent; 5 feet on the upper vein that will average .4 percent and indicates a large ore body, and half a dozen other places that show commercial ore warranting development. In fact, if my memory is correct, you looked at this property in the summer of 1941 when you were working out of Salt Lake City for the Howe Sound Corp., and I was the field engineer at the Westgate CCC Camp. You liked it well enouth to offer us $50,000.00 on a royalty basis, and start development.

Development of mines all around us are proving substantial ore bodies, that are not pods or small bunches of ore isolated in widely seperated areas. If any further information is required for consideration of granting a development loan, I will be pleased to supply it to the best of my ability, I have moved here from Sacramento and we are anxious to get going.

Very truly yours,

Mark Harris

Mark Harris

W.E.C.

July 9, 1951

Mr. Mark Harris
928 35th Street
Sacramento, California

In reply please refer to:
DMA-1621-X — Tungsten

Dear Mr. Harris:

We have carefully reviewed your application for an exploration project costing $10,000 at the Bell Flat tungsten prospects, Churchill County, Nevada. It appears to us that insufficient trenching and sampling has been done on the surface and that proposals for underground work are premature. Your statement lists 2 samples taken by Mr. Dobson on the Scheelite and Midnight No. 2 claims assaying 0.8 and 0.4 percent of $WO_3$, one sample taken by yourself on the Midnight claim assaying 1.5 percent, and a bulk sample of the same ore amounting to 6.7 tons which was sold to the Pine Creek mill of U. S. Vanadium Corporation at an assay of 1.49 percent. These 4 samples appear to represent small pods of ore rather than continuous mineralization in veins or beds.

It appears that some good tungsten ore is present in the open cut on the Midnight claim. It also appears from samples taken during World War II by a Government engineer that much of the fluorescent material on the claims is powellite, the assays of which were disappointingly low in tungsten.

Your comments on the high cost of custom milling at the Pine Creek mill are partly true for ores containing more than 1.0 percent of $WO_3$. For lower-grade ores, however, it can be shown that the milling charges are not unreasonable inasmuch as payments are based on 100 percent recovery compared to an expectable recovery of 60 to 70 percent in a small plant such as you might erect on your claims. The high molybdenum content in your ore necessitates chemical digestion of the concentrates for purification, an expensive procedure. When these factors are taken into consideration, a price of $18 per ton of ore assaying 0.5% $WO_3$ is not out of line when finished concentrates are priced at $65 per unit. Incidentally, we do not know of any sales of domestic tungsten concentrates at prices above $65 per unit during 1951.

If your analysis of facts shows that the transportation to Reno is too expensive, even though recovery is higher, you might be able to arrange for water-milling at the Nevada Ore Mills, Gabbs, or Nevada Tungsten Corp. mill.

We are enclosing a copy of form AF-[illegible], the exploration contract, for your information so that you can see what exhibits are necessary as part of the contract. Exhibit A is particularly important, and should consist both of a statement and a map showing precisely what work is to be done under the contract. The location and length should be lines of all proposed trenches, adits, shafts, raises and other work. If you wish to provide the necessary exhibits, we will consider your application further.

Very truly yours,

George B. Holderer

jam

George B. Holderer
Chief, Uranium Branch

enclosure

DMLemmon:avj

cc:Adm. Reading File
Reports & Record Division
Field Team III
F I L E
Mr. Holderer
Mr. McCarran (2)
Mr. Lemmon

July 9, 1951

Mr. Mark Harris
928 35th Street
Sacramento, California

In reply please refer to:
DMA-1621-1 -- Tungsten

Dear Mr. Harris:

We have carefully reviewed your application for an exploration project costing $1,[illegible] at the Gail Flat tungsten prospects, Churchill County, Nevada. It appears to us that insufficient trenching or sampling has been done on the surface, and that proposals for underground work are premature. Your statement lists a sample taken by Mr. Robson on the Scheelite and Midnight No. 2 claims assaying 0.8 and 0.4 percent of $WO_3$, one sample taken by yourself on the Midnight claim assaying 1.5 percent, and a bulk sample of the same ore amounting to 6.7 tons which was sold to the Pine Creek Mill of U. S. Vanadium Corporation at an assay of 1.7 percent. These samples appear to represent small pods of ore rather than continuous mineralization in veins or beds.

It appears that some good tungsten ore is present in the open cut on the Scheelite claim. It also appears from samples taken during World War II by a Government engineer that much of the fluorescent material on the claims is scheelite, the assays of which were disappointingly low in tungsten.

Your comments on the high cost of custom milling at the Pine Creek mill are partly true for ores containing more than 1.0 percent of $WO_3$. For lower-grade ores, however, it can be shown that the milling charges are not unreasonable inasmuch as payments are based on 100 percent recovery compared to an expectable recovery of 60 to 70 percent in a small plant such as would be erect on your claims. The high molybdenum content in our ore necessitates chemical direction of the concentrates for purification, an expensive procedure. When these factors are taken into consideration, a price of $18 per ton of ore assaying 0.5 percent $WO_3$ is not out of line when finished concentrates are priced at $65 per unit. Incidentally, we do not know of any sales of domestic tungsten concentrates at prices above $65 per unit during 1951.

If your analysis of [illegible] above that the transportation to Pierre is too expensive, even though [illegible] is lower, you might be able to arrange a [illegible] cable-lift at the [illegible] cable lift, cables, or lever [illegible] wills.

We are enclosing a copy of Form NF-[illegible], the exploration contract, for your information so that you can see what exhibits are necessary as part of the contract. Exhibit A is particularly important, and should consist [illegible] statement and a map showing precisely what work is to be done under the contract. The location and length should be [illegible] line of all roads, trenches, adits, shafts, raises and other work. If you wish to provide the necessary exhibits, we will consider your application further.

Very truly yours,

George B. Holderer
jam

George B. Holderer
Chief, [illegible]

[illegible]

DHLemmon:mj

cc:Adm. Reading File
Reports & Record Division
Field Team III
F I L E
Mr. Holderer
Mr. McCarran (2)
Mr. Lemmon

# SUMMIT KING MINES, LIMITED

BOX 632

FALLON, NEVADA

June 28, 1941

Mr. Mark Harris
Fallon, Nevada

Dear Mr. Harris

I have recently received returns from the samples we took on your Bell Flat Tungsten Property and I am, herewith, enclosing you a copy. As you will see, the returns, although quite promising, are lower that we had anticipated. As no work has been done on the property, it is very difficult to reach a conclusion as to what may be expected.

As the property now stands, there is not enough in sight to warrant development by Summit King Mines, Limited. However my personal view is that it is a promising prospect and is well worth you spending sufficient money to trace out and open up the most promising exposures. If after you have done some work on it, it appears to be responding favorably to your development, I would be interested in having another look at it. I am sending a copy of the sketch you loaned me with the position of the samples marked on it for printing and would be glad to let you have a copy when returned.

Thank you very much for having given us the opportunity for considering the property.

Yours very truly,

Percy G. Dobson

Percy G. Dobson

PGD:ls

Note: At this time tungsten was quoted at about $21.00 per unit, and not even a pick had been stuck in the ground.

M.H.

June 19, 1951

Mr. Mark Harris
928 - 35th Street
Sacramento, California

Subject: DMA-1621X
Re: Exploration Loan
Bell Flat Tungsten
Property

My dear Mr. Harris:

Receipt is acknowledged of your application and attachments of May 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1621X and was referred to Mr. George B. Holderer, Chief, Tungsten Branch on June 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1621X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
Holderer
Lyon

| Refer to | Noted | Date |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| Answered | | |

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION IV
RECEIVED
MAY 2 8 1951
SAN FRANCISCO, CALIFORNIA

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 16211X

Date received

Participation

MARK HARRIS
928, 35th, STREET,
SACRAMENTO, CALIF.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAY 28 1951
SAN FRANCISCO, CALIFORNIA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $10,000.00

Mineral or metal TUNGSTEN

Percentage of Government participation 75

Location of mine Approx. Sec. 6, Twp., 14, R 34 E. in S.E. Churchill County, Nevada.

Date of filing MF-100

DMA Docket Number, if available

## INSTRUCTIONS

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

## THE APPLICANT

All questions answered on attached sheets.

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

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

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

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

16—64067-1

## THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

## THE REQUIREMENTS AND COSTS

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

## CERTIFICATION

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

BELL FLAT TUNGSTEN MINE
(Name of company)

By Mark Harris
(Signature of authorized official)

May 26, 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.**

*Same as footnote on page 1.

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

Mark Harris,
928, 35th, Street,
Sacramento, Calif.

1. The applicant is one of a three way partnership.

2. Mark Harris (Applicant) 928, 35th, Street, Sacramento, Calif.
Fred T. Pine - 500 North 7th, Street, Las Vegas, Nevada.
Wm. W. Brown - 1100 Elm Drive, Las Vegas, Nevada.

3. Not applicable.

4. (a) Mark harris, applicant is a graduate mining engineer ( Michigan College of Mines) with operating experince in tungsten, mercury, and others strategic minerals.
(b) Fred T. Pine is an experienced miner, and cook.
Wm. W. Brown is an experienced accountant, and knows mining only from experience with us on this property.
Fred T. Pine will supervise the work in my absence, but I expect to do all the engineering work, and be active, part time, on the job.

5. Owners.

6. No claims, liens, or encumbrances against the property.

7. Not applicable.

8. Only a prospect so no financial statement can be submitted.

9. We will put up $2500 in cash and labor as our share of the work. This is sufficient to cover all costs set forth in question 23.

10. (a) Ten claims located according to mining laws, are on file in the courthouse at Fallon, Nevada. Location work, assessment work, and notices of intent to hold under the moratorium, are all duly on record.
(b) Approximately in Section 6, Twp.,14 N; R 34 E, Just below Slate Mountain, as shown on enlosed section of the Carson Sink, Nevada, contour map of the U. S. Geological survey.

11. As the original discover of this property, no work has ever been done on it.

12. Property is 15 miles out from the intersection of Highway 50 with Highway 23, where you turn right and follow a dirt road 10 miles to the mine. All roads are paved except the 10 miles to the mine. From Fallon, by this route, it is 72 miles. Going the other way on Highway 23, it is 25 miles to Gabbs, and 58 miles to Lunning, Nevada. Fallon and Lunning are both on the railroad. No heavt grades on the road to the mine, but the road needs gradings to eliminate high centers. We have extended the road to reach the tunnel and open-out where we are not working.

13. A 15 foot shaft on the contact between the granite and schists, is filled up with dirt, but enough water is available for mine use. During the Rawhide Gold boom, this source of water was used to butcher and dress beef for sale in that camp. Old timers say if this well is cleaned out it will run a 2 inch pipe ful of water. Power will have to come from gasoline engines as no other power is available.

Mark Harris,
28, 35th, Street,
Sacramento, Calif.

14. A 18 x 12 cabin in good condition is available.

15. At present, ore would have to be shipped to Bishop, Calif., for treatment in a custom mill. Hauling and milling charges there are excessive.

16. (a) I discovered the property in 1941, when I found minerals and conditions that go with the deposition of Scheelite, and followed them up to find the deposit. Work done to date, has only been enough to hold the property under legal mining laws. However, this work has exposed good showings of ore. By extending an open cut on the Midnight Claim, we have opened what promises to be a good ore-shoot. The shoot rakes to the right at a flat dip, and a tunnel started below, on the cropping of the vein in the Wash, is not in far enought to cut it. However, this tunnel shows good bunches of ore on both walls, and ore starting to come in the center of the vein in the last few shots, indicating we are approaching the outer margin of an ore shoot.

6.7 tons of mine run ore, taken from this open cut, were shipped to Bishop for a test run. The ore assayed 1.49 percent WO3, and the shipment netted us $279.24. The mill only paid $36.00 per unit, F.O.B. mill, when the market quotation was $73.00 per unit. This is too much of a differential, and we can make more money by putting in a small mill and making our own concentrates.

In 1941, I shipped 100 pounds of picked scheelite specimens to Ward's Mineral Establishment, Rochester, N.Y. for sale to mineral collectors, and netted $25.00 on the shipment. These specimens came from a highgrade stringer 100 feet above the open-cut, where a quartz concentration showed in the vein.

(b) The Nevada-Scheelite Mine has been in production for the past 25 years, and has produced some $20,000,000 worth of tungsten. It is still a large producer. This mine is on the margin of the same granite batholith as we are. Several other properties on the margin of this batholith, have produced at a profit, and one, S.E. of Schurz, is now resuming operations. The Nevada-Scheelite is 7 miles S.W. of our property. 20 miles S.E. of our property, the Gabbs Exploration Co., has opened up a deposit of tungsten that may be one of the largest in the state. Their 100 ton modern mill, at Gabbs, was put into operation about 6 weeks ago and is running to capacity.

(c) Map of the property enclosed and several assy reports, shows the location and value of the surface showings. The letter from Percy C. Dobson is self explanatory. Mr. Dobson is Gen'l Mgr., of the Summit King Gold Mine, owned by the Bralorne Corp of Canada. He looked at the property a month after I discovered it, and before any work had been done. Present workings where ore has been opened up and a truck load shipped, had not been found at that time. The assays he took were on the She-Lite and Midnight No. 2, .8 % and .4% as shown on the map.

17. The mine is not developed for production, and all ore shipped are set forth in question 16. However, at the present price of 63.00 a unit for the next five years, what was too low to mine at a profit at 24.00 per unit, is now commercial ore, if it can be mined and milled on the property.

Mark Harris,
[illegible]8, 35th, Street,
Sacramento, Calif.

18. (a) The ore comes in metamorphosed limestone beds in a schist series. These beds, two and possibly three, average 5 feet in width, and can be traced for some 2,000 feet from the granite contact. They dip at an angle of about 30 degrees, and have been completely changed to garnet, epidote, and quartz. The best grade of ore seems to favor the epidote.

(b) Map and available assys are enclosed. Reports on the ore shipped to Bishop are with my partner in Las Vegas, and not available at this time.

(c) Estimated tonnage in sight is based on 7.5 cubic feet per ton in place, and is conservative.

1. Open-cut on Midnight claim, where ore was mined and shipped last March, shows at least 75 tons of ore that will average 1.5 percent.

2. A large block of ore on the point, on Midnight No. 2 claim has been cut with a test shaft showing 5 feet of ore assaying .4 percent. This block is about 100 feet square, but I am estimating the ore in a block 40 feet square. 1,000 tons available

3. 18 inches of ore below the monument on the She-lite claim assayed .8 percent. The ore is exposed for 50 feet down the dip, and an estimate of 50 tons here is not out of line.

4. A foot of ore exposed for 100 feet down the dip in the wash below the well, is estimated to run .5 percent. 50 tons should be available here.

5. 4 feet of ore on the side line of Midnight No. 5 claim is estimated to average .5 percent. 50 tons could easily be mined here.

19. With the ore showings in sight, a well planned operation can develop enough ore to justify the installation of a 10 or 20 ton mill. With favorable topography for mining and hauling the ore, down hill to a mill site close to the water supply, everything is favorable to an economic operation.

20. Tungsten is the ore to be explored. However, above the ore showings and on the property, is a large Rhyolite Dike cutting the schists. This dike is post-mineral and a large section of it grades off into volcanic glass (pitchstone) that might have some value. Recent research carried out by chemists at the University of Oregon, show that such volcanic glass can be used as a substitute for high priced feldspars in the Ceramic industry. It is worth investigating.

21. A six month program is planned, which if successful will be followed by an application for a development loan. The initial expense of buying a compressor, drill, and tools, will make the first months outlay higher. After that the monthly cost will only cover labor and supplies. First, open cuts and short tunnels will be run on present showings of ore. At the same time, the present tunnel will be extended to determine if the ore above goes down. If it does, then dropping down the wash below the high cliff and driving a cross-cut 75 feet to intersect the vein would be good mining. Drifts run on the vein at this depth, 175 feet below the present tunnel, would prove if the values go down. While diamond drilling could easily cut the veins at depth, the ore-shoots could easily be missed by the drill holes.

k Morris
928, 35th, Street,
Sacramento, Calif.

22. Production from other mines on the margin of this granite batholith, prove that commercial ore bodies have been formed. The geologic structure is very similar to Mill City where metamorphosed limestone beds occur in a Hornfel series. On our property, metamorphosed limestone beds occur in a schist series. The continuity of the veins away from the contact for 2,000 feet and the complete replacement of the limestone by contact metamorphic mineral with scheelite, is indicative of substantial ore shoots, as ore is found over a wide area along the strike of the veins.

23. (a) I will supervise the engineering work and devote part time to the job. My partner, Fred T. Pine will spend full time on the job and supervise it. My other partner, Wm. W. Brown will spend part time on the job, and take care of keeping all required records. My son, a good experienced miner, will work full time on the job, so we have no labor problem. Average wages of the area will be paid each of us for time devoted to the job, with no extra pay for technical knowledge.

(b) Answered in (a).
(c) No repairs needed on present cabin.
(d) Another cabin will be required. This cost should not exceed $250.00
(e) We must buy a compressor, drill, steel, and some other tools for mining. a 210 Cu. Ft. compressor, drill, and steel, should not cost over $2,000 as good used machinery is available.
(f) None
(g) Partners have 3/4 ton, four wheel drive, Dodge Pickup which can be used to haul supplies and take care of ore mined that has to be stock-piled. The rental should not exceed $1.00 a day
(h) Cost of powder, fuse, gas, oil, and other supplies needed should not exceed $250.00 a month.

24. The time schedule will be based on development of surface showings first, and then proving if ore exposed goes to depth. The work as outlined in question 21, will be carried out only if development warrants it. This work should give valuable information on the extent of ore deposition, and prove if commercial ore is available. The estimated cost of $10,000 for this work, should be ample to prove the deposit.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1621 X

Date received

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

CARL HARRIS
928, 35th, STREET,
SACRAMENTO, CALIF.

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $10,000.00

Mineral or metal TUNGSTEN

Percentage of Government participation 75

Location of mine Approx. Sec. 6, Twp., 14, R 34 E. in S.E. Churchill County, Nevada.

Date of filing MF-100

DMA Docket Number, if available

## INSTRUCTIONS

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

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*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
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NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

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

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

16—64067-1

## THE PROPERTY

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

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State amount of power to be used, rate per hour or other cost, and source.

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

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
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21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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## THE REQUIREMENTS AND COSTS

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

## CERTIFICATION

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

FELL FLAT TUNGSTEN MINE
(Name of company)

By Mark Harris
(Signature of authorized official)

May 26, 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.**

*Same as footnote on page 1.

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

Mark Harris,
928, 35th, Street,
Sacramento, Calif.

1. The applicant is one of a three way partnership.

2. Mark Harris (Applicant) 928, 35th, Street, Sacramento, Calif.
Fred T. Pine - 500 North 7th, Street, Las Vegas, Nevada.
Wm. W. Brown - 1100 Elm Drive, Las Vegas, Nevada.

3. Not applicable.

4. (a) Mark harris, applicant is a graduate mining engineer ( Michigan College of Mines) with operating experince in tungsten, mercury, and otherstrategic minerals.
(b) Fred T. Pine is an experienced miner, and cook.
Wm. W. Brown is an experienced accountant, and knows mining only from experience with us on this property.
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5. Owners.

6. No claims, liens, or encumbrances against the property.

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Mark Harris,
28, 35th, Street,
Sacramento, Calif.

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2. A large block of ore on the point, on Midnight No. 2 claim has been cut with a test shaft showing 5 feet of ore assaying .4 percent. This block is about 100 feet square, but I am estimating the ore in a block 40 feet square. 1,000 tons available

3. 18 inches of ore below the monument on the Sha-lita claim assayed .8 percent. The ore is exposed for 50 feet down the dip, and an estimate of 50 tons here is not out of line.

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5. 4 feet of ore on the side line of Midnight No. 5 claim is estimated to average .5 percent. 50 tons could easily be mined here.

19. With the ore showings in sight, a well planned operation can develop enough ore to justify the installation of a 10 or 20 ton mill. With favorable topography for mining and hauling the ore, down hill to a mill site close to the water supply, everything is favorable to an economic operation.

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23. (a) I will supervise the engineering work and devote part time to the job. My partner, Fred T. Pine will spend full time on the job and supervise it. My other partner, Wm. W. Brown will spend part time on the job, and take care of keeping all required records. My son, a good experienced miner, will work full time on the job, so we have no labor problem. Average wages of the area will be paid each of us for time devoted to the job, with no extra pay for technical knowledge.

(b) Answeredin (a).
(c) No repairs needed on present cabin.
(d) Another cabin will be required. This cost should not exceed $250.00
(e) We must buy a compressor, drill, steel, and some other tools for mining. a 210 Cu. Ft. compressor, drill, and steel, should not cost over $2,000 as good used machinery is available.
(f) None
(g) Partners have 3/4 ton, four wheel drive, Dodge Pickup which can be used to haul supplies and take care of ore mined that has to be stock-piled. The rental should not exceed $1.00 a day
(h) Cost of powder, fuse, gas, oil, and other supplies needed should not exceed $250.00 a month.

24. The time schedule willbe based on development of surface showings first, and then proving if ore exposed goes to depth. The work as outlined in question 21, will becarried out only if development warrants it. This work should give valuable information on the extent of ore deposition, and prove if commercial ore is available. The estimated cost of $10,000 for this work, should be ample to prove the deposit.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 16211X

Date received

Participation

MARK HARRIS
928, 35th, STREET,
SACRAMENTO, CALIF.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $10,000.00

Mineral or metal TUNGSTEN

Percentage of Government participation 75

Location of mine Approx. Sec. 6, Twp., 14, R 34 E. in S.E. Churchill County, Nevada.

Date of filing MF-100

DMA Docket Number, if available

## INSTRUCTIONS

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

## THE APPLICANT

All questions answered on attached sheets.

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

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

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

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

16—64067-1

## THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

## THE EXPLORATION

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

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

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

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

## THE REQUIREMENTS AND COSTS

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

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

## CERTIFICATION

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

BELL FLAT TUNGSTEN MINE
(Name of company)

By Mark Harris
(Signature of authorized official)

May 26, 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.**

*Same as footnote on page 1.

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

Mark Harris,
928, 35th, Street,
Sacramento, Calif.

1. The applicant is one of a three way partnership.

2. Mark Harris (Applicant) 928, 35th, Street, Sacramento, Calif.
Fred T. Pine - 500 North 7th, Street, Las Vegas, Nevada.
Wm. W. Brown - 1100 Elm Drive, Las Vegas, Nevada.

3. Not applicable.

4. (a) Mark harris, applicant is a graduate mining engineer ( Michigan College of Mines) with operating experinee in tungsten, mercury, and otherstrategic minerals.
(b) Fred T. Pine is an experienced miner, and cook.
Wm. W. Brown is an experienced accountant, and knows mining only from experience with us on this property.
Fred T. Pine will supervise the work in my absence, but I expect to do all the engineering work, and be active, part time, on the job.

5. Owners.

6. No claims, liens, or encumbrances against the property.

7. Not applicable.

8. Only a prospect so no financial statement can be submitted.

9. We will put up $2500 in cash and labor as our share of the work. This is sufficient to cover all costs set forth in question 23.

10. (a) Ten claims located according to mining laws, are on file in the courthouse at Fallon, Nevada. Location work, assessment work, and notices of intent to hold under the moratorium, are all duly on record.
(b) Approximately in Section 6, Twp.,14 N; R 34 E, Just below Slate Mountain, as shown on enlosed section of the Carson Sink, Nevada, contour map of the U. S. Geological survey.

11. As the original discover of this property, no work has ever been done on it.

12. Property is 15 miles out from the intersection of Highway 50 with Highway 23, where you turn right and follow a dirt road 10 miles to the mine. All roads are paved except the 10 miles to the mine. From Fallon, by this route, it is 72 miles. Going the other way on Highway 23, it is 25 miles to Gabbs, and 58 miles to Lunning, Nevada. Fallon and Lunning are both on the railroad. No heavt grades on the road to the mine, but the road needs gradings to eliminate high centers. We have extended the road to reach the tunnel and open-cut where we are now working.

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928, 35th, Street,
Sacramento, Calif.
May 26, 1951

Dear Mr. Miller:

Enclosed please find Form MF-103 application for exploration loan on our tungsten property. I will greatly appreciate it, if this application can be expedited so we can get into operation at an early date.

If your engineers wish to look over the property, I will take them up at any time. They should spend at least two days going over the showings during the day, to determine the geologic structures, etc, and then going over the same ground at night to estimate the ore in sight with violet ray lamps. We have two lamps to work with.

Thanking you for your prompt reply to my request for forms and the information you sent me, I am,

Sincerely yours
Mark Harris.
Mark Harris.

P.S. A type sample of ore shipped from the open cut is encluded to give you an idea of how the values occur.
MH.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary