FILE COPY
SURNAME:

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

Brewer - Selfridge

FEB 21 1952

sd

Mr. Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

Re: Docket No. DMA 817X - Tungsten
Pony Gulch Mine
Shoshone County, Idaho

Dear Mr. McKinley:

Our files show that the subject application for an exploration loan has been inactive for the past six months, and that we have endeavored, unsuccessfully, to communicate with you on this matter by mail both from Washington, D. C. and from Spokane, Washington.

Information derived from various sources indicates that you have left Montana and have abandoned your application. Therefore, we have removed the application from our active file and now consider the docket closed.

Sincerely yours,

C. O. Mittenderf (fw) E.L. 2/21/52

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer'lm
2/19/52

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION FEB 21 1952
WASHINGTON 25, D. C.

February 20, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Removal from the active file of exploration project in the amount of $134,401.00
Docket No. DMA 817X - Tungsten
Pony Gulch Tungsten Mine
Shoshone County, Idaho

The removal from the active file of the subject application by this Division is based on the following information:

1. The original application dated March 1, 1951, was on Form NSRB-146 and proposed a project costing $99,000. This was later supplemented by an application dated May 29, 1951, increasing the amount to $134,401. The docket file contains no data later than the May 29, 1951, application. However, it has been ascertained that telephone conversations with Region II were had on or about September 1, 1951, wherein it was disclosed that the Region II Field Team had visited the property in company with the applicant and that a more or less definite agreement to abandon the project was reached at that time, although no written communication was made to this office.

2. On December 29, 1951, DMEA requested written confirmation in this regard and on February 11, 1952, a letter from Region II stated that it had endeavored to contact Mr. McKinley at his last known address (Bunker Hill and Sullivan Mining Company) without success, and added that it had learned that Mr. McKinley had gone to Florida to work for a phosphate mining company.

G. C. Selfridge
S.L. - 2/21/52

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

FEB 21 1952

Mr. Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

Re: Docket No. DMA 617X - Tungsten
Pony Gulch Mine
Shoshone County, Idaho

Dear Mr. McKinley:

Our files show that the subject application for an exploration loan has been inactive for the past six months, and that we have endeavored, unsuccessfully, to communicate with you on this matter by mail both from Washington, D. C. and from Spokane, Washington.

Information derived from various sources indicates that you have left Montana and have abandoned your application. Therefore, we have removed the application from our active file and now consider the docket closed.

Sincerely yours,

C. O. Mittenderf

Acting Administrator
Defense Minerals Exploration
Administration

GLBrewer:lm
2/19/52

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

FEB 21 1952

February 20, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Removal from the active file of exploration project in the amount of $134,401.00
Docket No. DMA 817X - Tungsten
Pony Gulch Tungsten Mine
Shoshone County, Idaho

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QLBrewer:GCSelfridge:ls

cc: Admn. Reading File
Docket
G. C. Selfridge
Q. L. Brewer

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

FILE COPY
SURNAME:

FEB 21 1952

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

Brewer
Selfridge

February 20, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Removal from the active file of exploration project in the amount of $134,401.00
Docket No. DMA 817X - Tungsten
Pony Gulch Tungsten Mine
Shoshone County, Idaho

The removal from the active file of the subject application by this Division is based on the following information:

1. The original application dated March 1, 1951, was on Form NSRB-146 and proposed a project costing $99,000. This was later supplemented by an application dated May 29, 1951, increasing the amount to $134,401. The docket file contains no data later than the May 29, 1951, application. However, it has been ascertained that telephone conversations with Region II were had on or about September 1, 1951, wherein it was disclosed that the Region II Field Team had visited the property in company with the applicant and that a more or less definite agreement to abandon the project was reached at that time, although no written communication was made to this office.

2. On December 29, 1951, DMEA requested written confirmation in this regard and on February 11, 1952, a letter from Region II stated that it had endeavored to contact Mr. McKinley at his last known address (Bunker Hill and Sullivan Mining Company) without success, and added that it had learned that Mr. McKinley had gone to Florida to work for a phosphate mining company.

George C. Selfridge E.L. 2/21/52

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

QLBrewer:GCSelfridge:ls

cc: Admn. Reading File
Docket
G. C. Selfridge
Q. L. Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1952

So. 157 Howard Street
Spokane 4, Washington

February 11, 1952

Mr. C. O. Mittendorf,
Acting Administrator
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Re: Docket No. DMA 817X - Tungsten
Shoshone County, Idaho
Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

Dear Mr. Mittendorf:

This will acknowledge receipt of your letter of February 8 in which you inquire as to the status of the subject docket.

Mr. Warren Hobbs of this office wrote to Mr. Frank McKinley over a month ago asking whether he wished to withdraw application for exploration assistance on the subject tungsten property. No reply has been received from Mr. McKinley. Other attempts to contact Mr. McKinley have also proved fruitless. We have recently learned that Mr. McKinley has left the Bunker Hill & Sullivan Mining Company and has gone to Florida with a phosphate producing concern. We, therefore, believe that McKinley is no longer interested in the tungsten property, and would advise that the application be formally denied.

Sincerely,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

FILE COPY
SURNAME:

Brewer
Selfridge

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

FEB 8 1952

Mr. A. E. Weissenborn
Executive Officer, Region II
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMA 817X - Tungsten
Shoshone County, Idaho
Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

Dear Mr. Weissenborn:

We requested a statement from your office as to the status of the subject docket by letter sent you on December 29, 1951.

Although we were informed orally, on January 8, by a member of the DMEA staff who stated that you had informed him that we could withdraw this application, we still await a written statement in this regard as heretofore requested.

Please favor us with a statement at this time.

Sincerely yours,

C. O. Mittendorf (for) P.H. 2-8-52

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer:lm
2/6/52

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

FILE COPY
SURNAME:

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

Meyer
Selfridge
Mittendorf

DEC 29 1951

Mr. A. E. Weissenborn
Executive Officer, Region II
South 157 Howard Street
Spokane 8, Washington

Re: Docket DMA 817X - Tungsten
Shoshone County, Idaho
Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

Dear Mr. Weissenborn:

The original application on the above mentioned property was filed in March, 1951, and later amended May 29, 1951. In the interim, according to our files, a discussion of the data given by the applicant was made by Mr. D. M. Lemmon, no further pertinent documents appearing since April 16, 1951, other than the acknowledgement of receiving the May 29, 1951, amended application. Conversation December 26, 1951, with Mr. Lemmon indicated that he had conversed with you about September 1, 1951, in this regard, and was informed that your Mr. Warren Hobbs, in company with the applicant, had visited the property and had more or less decided, mutually, to abandon the project.

Please favor us with a statement in review of what has taken place, so that we may formally deny the application, or continue processing it, if such be the case.

Sincerely yours,

C. O. Mittendorf (fw) 12-29

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer:lm
12/27/51

cc: Admn. Reading File
Mails and Files Br.
C. O. Mittendorf
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. II
Docket
G. C. Selfridge
Q. L. Brewer

BD

FILE COPY
SURNAME:

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

June 19, 1951

Mr. Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

Subject: DMA-817X
Re: Exploration Loan -
Kennan Property

My dear Mr. McKinley:

Receipt is acknowledged of your application and attachments of May 29, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-817X and referred to Mr. George Holderer, Chief, Tungsten Branch on June 6, 1951.

In any future correspondence relating to your application, kindly refer to DMA-817X.

Sincerely yours,

LANDON F. STROBEL
jc

Landon F. Strobel
Executive Secretary

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

FILE COPY
SURNAME:

Bradley

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

April 25, 1951

Memorandum

To: Landon F. Strobel, Executive Secretary

Through: Director, Supply Division

From: Tungsten Commodity Committee

Subject: DMA - 817 Frank McKinley, 622 McKinley Avenue
Kellogg, Idaho. Kennan Property
Secs. 13, 14, 18, and 24, T.49 N., R. 4 E.
Beaver Manganese District, Shoshone County, Idaho

The applicant request for a straight loan to explore, develop, and equip the subject tungsten property has been reviewed by this committee and must be denied in its present form. The following is a summary of our conclusions and recommendations:

The property contains no tungsten ore reserves. The scheelite occurs in narrow quartz veins in a shear zone 6 feet wide in slate. In 1942, an adit 260 feet long extended south from a gulch along one wall of the vein zone. Two short crosscuts in the south wall of the adit 200 feet from the portal exposed scheelite ore estimated to average 2 and 1 percent WO_3.

An exploration program, involving surface trenches and short crosscuts from the adit, would probably develop a small tonnage of tungsten ore of good grade.

We are informing the applicant of our decision, and suggesting that his proposition should be submitted as an application for an exploration loan.

P. R. Bradley

P. R. Bradley, Jr. Chairman
Tungsten Commodity Committee

Approved:

Director, Supply Division

TJBallard:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Lyon

Mr. Bradley Files
Field Team II

FILE COPY
SURNAME:

Malcolm
Ballard
Lemmon

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

April 23, 1951

Mr. Frank McKinley
622 McKinley Avenue
Kellogg, Idaho

In reply please refer to DMA-017
Kennan Property, Shoshone Co., Idaho

Dear Mr. McKinley:

Your application for a loan of $99,000 to explore a tungsten prospect on the Kennan property, Pony Gulch, Beaver Mining district, Idaho, has been carefully reviewed by the defense Minerals Administration. The proposal you make is for mineral exploration, the cost of which could be borne only in part by the Government under current regulations. For approved exploration projects on tungsten deposits, the Defense Minerals Administration requires at least 25 percent participation by private capital.

If you are prepared to meet this requirement, and wish to apply for an exploration loan, please let us know and we will send you the detailed regulations for such loans. You may wish to consult with Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, Region II, No. 157 Howard Street, Spokane, Washington about the scope of exploration planned.

Very truly yours,

George Malcolm
George N. Malcolm
Acting Chief, Tungsten Branch

DMLemmon:T.J.Ballard/mh
cc: Adm. Reading File
Strobel
~~Douglas~~
~~Moon~~
Senator Dworshak
Lemmon
Field Team II
Bradley
Files

956

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

April 1, 1951

Mr. [illegible] McKinley
[illegible] McKinley Avenue
[illegible], Idaho

In reply please refer to DM-117
Kan [illegible] Property, [illegible], Idaho

Dear Mr. McKinley:

Your application for a loan of $95,[illegible] to explore a tungsten prospect on the Kanab property, [illegible] Field, Beaver Mining District, Idaho, has been carefully reviewed by the Defense Minerals Administration. The program you have in for mineral exploration, the cost of which would be borne only in part by the Government under support negotiations. For an approved exploration project on tungsten ores like, the Defense Minerals Administration requires at least 25 percent participation by private funds.

If you are prepared to meet this requirement, and wish to apply for an exploration loan, let us know and we will send you the detailed regulations for such loans. You may also wish to consult with Mr. [illegible], Mining Engineer, [illegible] Field Office, Taylor Building, No. 157 Second Street, [illegible], Idaho about the usage of [illegible] plans.

Very truly yours,

George Melcher

[illegible]
Acting Chief, Industrial Branch

[illegible]/mh
cc: [illegible] File
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

April 16, 1951

Senator Henry C. Dworshak
United States Senate
Washington 25, D. C.

DMA No. 817

Dear Senator Dworskak:

This will acknowledge the receipt of your letter of March 6, 1951 enclosing the two application of your constituent Mr. Frank McKinley, 622 McKinley Avenue, Kellegg, Idaho for loans on his tungsten properties.

The rather extensive information which the Geological Survey has on these properties indicates there are insufficient reserves to warrant loans of $99,000 and $219,000 on these properties.

However, it is possible they may qualify for an exploration loan, and we are writing Mr. McKinley to this effect. Copies of our letter to Mr. McKinley are enclosed.

Sincerely yours,

Administrator

Enclosure

TJBallard:ec

OK RBM

Memo

To: London F. Steele, Executive Secretary
Through: Director, Supply Division
From: Tungsten Commodity Committee
Subject: DMA 817, Frank McKinley, 622 McKinley Ave.
Kellogg, Idaho. Kenna Property,
Secs. 13, 14, 18, and 24, T. 49 N., R. 4 E.
Beaver Mag. Dist., Shoshone Co., Idaho.

The applicant's request for a straight loan to explore, develop, and equip the subject tungsten property has been reviewed by this committee and must be denied in its present form. The following is a summary of our conclusions and recommendations:

The property contains no tungsten ore reserves. The scheelite occurs in narrow quartz veins in a shear zone 6 feet wide in slate. In 1942, an adit 260 feet long extended south from a gulch along one wall of the vein zone. Two short crosscuts in the south wall of the adit 200 feet from the portal exposed scheelite ore estimated to average 2 and 1 percent WO_3.

An exploration program, involving surface trenches and short crosscuts from the adit, would probably develop a small tonnage of tungsten ore of good grade.

We are informing the applicant of our decision, and suggesting that his proposition should

be submitted as an application for an exploration loan.

PBB Jr
Chairman, Tungsten Committee
Commodity Committee

Approved

Director Supply Division

cc. Adm. Reading file
Mr. Shrout
Mr. Lyon
Mr. Bradley
File
~~Team~~ Field Team - II
Moon

Draft

Docket No. DMA-817
Commodity - Tungsten

Applicant Frank McKinley
622 McKinley Ave.
Kellogg, Idaho

Deposit Kennan Property of 13 Unpatented claims
Secs. 13, 14, 18, and 24, T. 49 N., R. 4 E.
Beaver Mining District, Shoshone County, Idaho.
Reached by 11.25 miles of road north from Wallace, Idaho.

Conclusions 1.) This project might add a few thousand units of WO_3 to the U. S. supply if exploration were successful.

2.) An exploration program is required, the details of which will depend upon successive steps of trenching, drilling, and drifting.

3.) All the requirements of the exploration program can be met by purchase.

4.) The applicant proposes government financing without private participation.

5.) Competence of applicant is unknown.

Recommendations

The applicant should be informed that DMA will make exploration loans only on a participation basis. A letter to this effect has been prepared for signature of the Director, Supply Division.

If the applicant signifies readiness to participate financially, the Field Team for Region II (Spokane) should be requested to draw up a suitable, small-scale exploration program after consultation with the applicant.

Applicant's Proposal

A straight loan of $99,000 is requested for exploration of an undeveloped tungsten prospect. Principal items are trenching ($10,000), drilling ($9,000), drifting ($50,000), equipment ($20,000), and buildings ($10,000).

F. The proposal might result in a small increase in the domestic tungsten supply.

G. Technical feasibility

1. No tungsten ore reserve exists on the property. Scheelite occurs in narrow quartz veins in a vertical shear zone 6 feet wide in Prichard slate. Scheelite was formerly exposed where the shear zone crosses Pony Gulch. In 1942, an adit 260 feet long extended south from the gulch along one wall of the vein zone. Two short crosscuts 6 and 8 feet long, in the south wall of the adit 200 feet from the portal, exposed a zone 6 feet wide with irregular quartz veins 2 inches or less in thickness. Scheelite occurs in these veins in coarse ~~trenches~~ crystals up to 2 inches across. The face exposed in one crosscut was estimated to average 2.0 percent WO_3, in the other crosscut, 1.0 percent.

An exploratory program, involving surface trenches and short crosscuts from the adit, would probably develop a small tonnage of tungsten ore of good grade.

The scheelite from this deposit is apparently pure and readily marketable.

H. Availability of project requirements

1. No equipment or other facilities are on the property. An adit 260 feet long can be used for exploration, but is apparently now caved at the portal.
2. The necessary mining equipment can be obtained by purchase.
3. The property is accessible by road.
4. Six men needed, available locally according to applicant.
5. Power will be gasoline and diesel.

I. Financing

1. Applicant proposes straight loan of $99,000, repayable from 5 percent of the net sales. Repayment provisions would mean total output of $2,000,000 to repay loan, without interest. This total production is substantially more than is to be expected from the property.

J. No information about competence of applicant.

K. This application was submitted through Senator Dworshak.

DMLemmon

March 20, 1951

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 817X

Date received 5-31-51

Participation

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

SR $114,401.00
20,000.00 Eng. Supervision

Date of application May 29, 1951

Estimated cost $134,401.00

Mineral or metal Tungsten

Percentage of Government participation 75

Location of mine Beaver Mining District
Shoshone County
Idaho

Date of filing MF-100 May 29, 1951

DMA Docket Number, if available DMA-817
Kennan Property Shoshone Co. Idaho

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners. No

SS *3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. No

*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? Lessee

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. The lease 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. Not any

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)? $35,000 has been pledged depending on developments. Yes.

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

Separate Sheet SR. See report by Robert M. Gammell

16—64067-1

THE PROPERTY

SR 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. **Dumps excluded.**

*11. State the present and former names of the property, if any. **Pony Gulch Tungsten** **Kennan**

SR*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.

Sr*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. **None**

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

SR*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: **Not in production**

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

SR*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? **Tungsten**

SR 21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. **18 months**

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

SR 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

SR 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. **18 months --rapidly as possible**

CERTIFICATION

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

(Name of company)	By (Signature of authorized official)
(Date)	(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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 817 X

Date received 5-31-51

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho
Pony Gulch Tungsten Mine

Name and address of applicant

Date May 29, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4 ~~XXXXXXXXXXr-tificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950,~~ (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

X
5

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.

The answer to all these will be found in MF -103, the report of Robert M. Gammell and your file DMA-817 Kennan Property Shoshone Co. Idaho

3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.
5. Number of years in production ______
   If not in production or operation, estimated date when production will begin ______
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By (Signature of authorized official)

(Date)

(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

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 817 X

Date received 5-31-51

Participation

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

SR $114,401.00
20,000.00 Eng. Supervision

Date of application May 29, 1951

Estimated cost $134,401.00

Mineral or metal Tungsten

Percentage of Government participation 75

Location of mine Beaver Mining District
Shoshone County
Idaho

Date of filing MF-100 May 29, 1951

DMA Docket Number, if available DMA-817
Kennan Property Shoshone Co. Idaho

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners. No

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. No

SS*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? Lessee

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. The lease 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. Not any

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)? $35,000 has been pledged depending on developments. Yes.

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

16—64067-1

SS Separate Sheet SR. See report by Robert M. Gammell

THE PROPERTY

SR 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. Dumps excluded.

*11. State the present and former names of the property, if any. Pony Gulch Tungsten Kennan

SR *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.

Sr *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. None

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

SR *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: Not in production

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

SR *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? Tungsten

SR 21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. 18 months

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

SR 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

SR 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. 18 months --rapidly as possible

CERTIFICATION

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

(Name of company) By (Signature of authorized official)

(Date) (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.

SS Separate sheet

SR. See report by Robert M. Gannell

*Same as footnote on page 1.

16-74067-1 U.S. GOVERNMENT PRINTING OFFICE

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 817X

Date received 5-31-51

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho
Pony Gulch Tungsten Mine

Name and address of applicant

Date May 29, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessary Certification Depreciation of Internal Revenue Code, 1950~~, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. The answer to all these will be found in MF -103,
   (*b*) Linear feet of drifts and crosscuts. the report of Robert M. Gammell and your file
   (*c*) Linear feet of tunnels or adits. DMA-817 Kennan Property Shoshone Co. Idaho
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By (Signature of authorized official)

(Date)

(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

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 817 8

Date received 5-31-51

Participation

Name and address of applicant

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho

Date May 29, 1951

FILL IN THIS BLOCK

SR $114,401.00
20,000.00 Eng. Supervision

Date of application May 29, 1951

Estimated cost $134,401.00

Mineral or metal Tungsten

Percentage of Government participation 75

Location of mine Beaver Mining District
~~Shoshone County~~
Idaho

Date of filing MF-100 May 29, 1951

DMA Docket Number, if available DMA-817
Kelman Property Shoshone Co. Idaho

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners. No

SS *3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. No

*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? Lessee

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. The lease 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. Not any

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)? $5,000 has been pledged depending on developments. Yes.

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

Separate Sheet SR. Geo. Report by Robert M. Gamell

16—64067-1

THE PROPERTY

SR 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. Dumps excluded.

*11. State the present and former names of the property, if any. Pony Gulch Tungsten Kennan

SR *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.

Sr *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. None

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

SR *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: Not in production

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

SR *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? Tungsten

SR 21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. 18 months

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

SR 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

SR 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. 18 months --rapidly as possible

CERTIFICATION

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

(Name of company)

By Frank McKinley
(Signature of authorized official)

(Date)

Secy
(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.

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 817X

Date received 5-31-51

Participation

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

SR $114,401.00
20,000.00 Eng. Supervision

Date of application May 29, 1951

Estimated cost $134,401.00

Mineral or metal Tungsten

Percentage of Government participation 75

Location of mine Beaver Mining District
Shoshone County
Idaho

Date of filing MF-100 May 29, 1951

DMA Docket Number, if available DMA-817
Kennan Property Shoshone Co. Idaho

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners. No

SS *3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. No

*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? Lessee

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. The lease 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 Not any

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)? $35,000 has been pledged depending on developments. Yes.

SG Separate Sheet SR. See report by Robert M. Gammell

*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

SR 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. **Dumps excluded.**

*11. State the present and former names of the property, if any. **Pony Gulch Tungsten** **Kennan**

SR *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.

SR *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. **None**

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

SR *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: **Not in production**

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

SR *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? **Tungsten**

SR 21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. **18 months**

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

SR 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

SR 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. **18 months --rapidly as possible**

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.

Bureau of Mines Minerals Exploration
RECEIVED
MAY 31 1951
U. S. BUREAU OF MINES

(Name of company)	By (Signature of authorized official)
(Date)	(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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1020.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 817 X

Date received 5-31-51

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho
Pony Gulch Tungsten Mine

Name and address of applicant

Date May 29, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certification Deduction of Internal Revenue Code 1950~~ (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

X
5

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain b[illegible]).

   The answer to all these will be found in MF -103, the report of Robert M. Gammell and your file DMA-817 Kennan Property Shoshone Co. Idaho

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____
   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

By _____ (Signature of authorized official)

_____ (Name of company)

_____ (Date)

_____ (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 817X

Date received 5-31-51

Frank McKinley
622 McKinley Ave.
Kellogg, Idaho
Pony Gulch Tungsten Mine

Name and address of applicant

Date May 29, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Certificate of necessity under the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950,~~ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) X 5 other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

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   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.
5. Number of years in production ____________

   If not in production or operation, estimated date when production will begin ____________
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
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				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

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For Corporate Applicants

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Preferred stock	$	$	$		

*Indicate period covered.

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1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
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11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

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(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

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14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

By _____ (Signature of authorized official)

_____ (Name of company)

_____ (Date)

_____ (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

REPORT OF THE
PONY GULCH TUNGSTEN MINE
SHOSHONE COUNTY, IDAHO.

By
Robert M. Gammell*
May 23, 1951.

Tungsten

Summary

The Pony Gulch Tungsten Mine is situated in the eastern slope of Beaver Creek Balley, twelve miles by road north of Wallace, Idaho. The mine has been intermittently worked since about 1919. According to reports, there was a small tonnage of tungsten ore mined from the main adit tunnel (see fig 1). The present main adit tunnel is 3000 feet above sea level. Snowfall is seldom, ifever, sufficient to seriously interfere with truck transport. Ore deposits in this section of the Coeur d'Alene Mining District occurs as replacement veins and as fracture fillings, occuring principally, in fractured Pritchard formation. Because the object of the early prospecting was looking for gold, the present tungsten deposits have not been adequately explored. Nevertheless some very high grade tungsten ore was obtained from the present main adit tunnel. Part of the main adit tunnel dump contains an estimated tonnage of scheelite bearing rock as follows, 100 tons containing about 1.0 percent Wo_3 and 3.0 tons containing 3.0 percent WO_3. The downward and latteral extention of the mineralized zones may project into shoots of important tungsten deposits. It will require considerable drifting, cross cutting, shaft sinking, bulldozer trenching and diamond drilling to adequately explore the known mineralized stucture. To adequately explore the Pony Gulch Tungsten property the above program is recommended to be carried out in two steps.

*Robert M. Gammell - Registered Mining Engineer

The first to cost $114,401.00

The second to cost 183,250.00

If the two steps accomplish positive results, a new tungsten mine of importance will have been developed.

Introduction

Persuant to a request by Frank McKinley, the Pony Gulch Tungsten mine main adit tunnel and immediate vicinity was examined by the writer May 19, 1951. This report presents the data obtained from the examination and and estimated cost of exploring the latteral and downward extention of the mineralized zones.

History

Scheelite bearing float is reported to have been found in Pony Gulch during the early days of the district. In 1918 the scheelite bearing deposit in the creek below the old ore bin was uncovered. The caved adit tunnel, southeast of the old ore bin, may have been driven to explore the latteral extention of the scheelite deposit exposed in the creek. Some time later, the present main adit tunnel was driven (see fig. 1). It is reported that some very high grade tungsten ore was recovered in driving this tunnel. Mr. Frank McKinley plans to adequately explore theknow tungsten deposits and any deposits that may be exposed by dozer trenching and diamond drilling.

Physical Features and Communications

The Pony Gulch Tungsten mine is situated in Pony Gulch about two miles above the mouth of the Gulch. The topography is similar to that of most of the Coeur d'Alene mining district. The hills are steep but rounded, and are generally covered with trees and brush on the sheltered slopes, or with grass and brush on the steeper and more exposed slopes. The relief ranges from about 3000 feet at the portal of the main adit tunnel to 4000 feet on a ridge south of the mine. Crude ore or concentrates can be hauled by truck twelve miles to the Rail Road at Wallace, Idaho.

Labor and Living Conditions

The Pony Creek Tungsten mine can probably obtain men from the labor markets in Wallace and Kellogg, Base wages in 1951 were as follows:

Miners and Timbermen	.....	$13.45 per 8 hour shift
Mill Operators	.....	13.45 " " " "
Shift boss	.....	15.00 " " " "

Time and one half is paid for Saturday work.

Room and board is available in Wallace or Kellogg. Supplies for operating purposes are usually available in Wallace, Idaho, 12 miles distant. Sufficient water and timber for operating purposes are available on the property.

Property and Ownership

The property consists of nine lode mining claims and four placer claims. The claims are held by location. The claims are owned by George A. Preston, Empire State Building, Spokane, Washington, and are under lease by Mr. Frank McKinley, 622 McKinley Ave., Kellogg, Idaho.

Mine Workings and Plant

The principal workings is the main adit tunnel shown in fig. 1. There are a number of old caved adit tunnels, however there is no data available as to the extent of the workings. No buildings or equipment is on the property.

Description of the Deposits

General Geology:

The geology of the Beaver Mining District was studied in considerable detail by Frank C. Calkins and D. F. MacDonald U.S.G.S. in 1903-1904. They show the area covered by the Pony Gulch Tungsten property to consist principally of the Pritchard formation, the lowest formation of the Belt series. It consists of blue shale and slate with subordinate interbedded gray sandstone and quartzite.

The present main adit tunnel cuts flat dipping pritchard slate for about 80 feet. From 80 feet to 420 feet a fault zone is, in part, exposed. The stike of the zone is south 20 degrees east. The dip is 80 to 85 degrees northeast. The workings for the most part are on the hanging wall side of the fault zone. A number of cross-cuts expose the foot wall of the fault zone. From 200 feet to 260 feet the drift has been widened and the foot wall and hanging wall are exposed. Scheelite occurs disseminated and in bunches along 160 feet of the underground workings. The main scheelite mineralization appears to follow the foot wall structure. The drift in the southeast part of the mine is in the footwall, and off of the main mineralized structure. The present cross cutting has not been carried far enough to adequately explore the structure.

The scheelite zone exposed at point A (see fig. 1) occurs along the bedding planes of highly silicified slate. The silicified zone exposed in the creek is about 35 feet wide. Scheelite can be seen along the bedding planes across a width of about 10 feet. Insufficient work has been done to prove the extent of the deposit.

The ore deposits:

The known tungsten deposits at the Pony Gulch Tungsten mine occur as disseminations, fracture filling and replacement deposits. The gangue mineral is principally quartz and calcite and highly silicified slate. Some pieces of ore found on the dump shows scheelite one inch thick and two inches long attached to highly altered slate. Lumps of scheelite one inch in diameter can be found in the creek at point A.

The Ore

The ore consists of scheelite in a gangue of quartz, calcite and highly altered slate.

Potential Ore Tonnage

The possible or potential tonnage of tungsten from this property could be important, but, until more exploration has been completed, there is no factual data on which to base an estimate.

Conclusion

1. The area included in the Pony Gulch Tungsten property is believed to offer favorable conditions for the existance of strong deposits of tungsten. The known deposits have not been adequately explored.

2. There appears to be a good chance of discovering shoots or deposits of tungsten on the main adit tunnel level, southeast along the foot wall structure. Cross cutting may expose parallel mineralized structure.

3. Additional dozer trenching should be done in the immediate vicinity of the scheelite deposit at point A (see fig. 1). Considerable dozer trenching should be done south and southeast of the present mine workings. It is possible that the property contains large commercial deposits of tungsten. If this point could be proved affirmatively, the production of tungsten would add materially to the national production.

Suggestions for Exploration

Step 1.

a-- Construction of compressor building and installation of compressor. Purchase of necessary mining equipment.

b-- Widening and timbering 100 feet of the present main adit tunnel.

c-- Widening the drift where necessary from the end of the timbering and drifting southeast on the foot wall structure as warrented.

d-- Completing cross cutting as indicated on fig. 1.

e-- Complete dozer trenching to prove surface latteral extention of the mineralized zone at point A.

SUPPLEMENT A

Supplement A - Step 1.

1-20' x 36' steel insulated compressor building	$ 6,500.00
1-1 1/2 ton compressed air locomotive	3,500.00
1-Diesel driven 450 cubic foot compressor	12,250.00
8-32 cubic foot card type ore cars	3,600.00
1-Mucking machine	3,200.00
2-Gardner reverse feed stopers complete with air and water hose	1,520.00
1-Air bar	150.00
Drill steel	300.00
500 Timken 2" bits	150.00
20-Timken carbide bits	240.00
1-24" mine fan	431.00
30 ton 20 Lb. mine rail	4,300.00
1000 feet of 4" air pipe	1,000.00
1000 feet 1" water pipe	660.00
Tools and Misc. equipment	1,600.00
Widening and timbering 100 feet of mine tunnel	3,000.00
Drifting 1000 feet	30,000.00
Cross cutting 500 feet	15,000.00
Raising 500 feet	10,000.00
Dozer trenching 500 hours @ $10.00 per hour	5,000.00
Diamond Drilling 3000 feet @ $4.00 per foot	12,000.00
Total step No. 1	$114,401.00

Supplement B Step 2.

Mine hoist and motor	$ 16,000.00
Hoist station and rope raise	8,000.00
Cage and skip for sinking shaft	4,500.00
Sinking shaft 550 feet	96,250.00
Pocket and station on 500 level	6,000.00
Drifting 1000 feet	35,000.00
Raising 500 feet	17,500.00
Total step No. 2	$183,250.00
Grand total estimated cost	$297,651.00

f-- Complete close hole diamond drilling of the mineralized zone near point A.

g-- Complete dozer trenching south and southeast of the present mine workings. This work to be followed by diamond drilling if justified.

Step 2.

Sinking a 550 foot shaft and completing necessary drifting. This to be followed by additional work if justified.

/s/ Robert M. Gemmell

SEPARATE SHEET to accompany MF - 103

Pony Gulch Tungsten Mine formerly Kennan

Location: Shoshone County, Idaho

DMA-817 Kennan Property Shoshone, County, Idaho

4. The applicant, Frank McKinley, received his Mining Engineering education at the University of Idaho 1929-1933. The applicant has been continuously employed in the mining industry for 18 years. The applicant is Asst. Mill Superintendent of Bunker Hill and Sullivan Mining Co., Kellogg, Idaho.

Mr. Robert M. Gammell, Mining Engineer, formerly with the U.S. Bureau of Mines particularly during the program of that bureau covering the Pine Creek district of Shoshone County Idaho. The U.S. Bureau of mines record may be consulted.

Other reputable engineers, geologists, metallurgists and any engineering service required is available.

15. Due to the absence of objectionable minerals and the character of the Scheelite in this deposit an excellent recovery and grade of concentrate can be produced by simple gravity concentration. I have fully demonstrated this by laboratory concentration tests. The amount of ore developed will govern any decision as to the construction of a concentration plant. Used equipment is available and a satisfactory plant could be erected quickly and at moderate cost.

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Frank McKinley

REPORT OF THE
PONY GULCH TUNGSTEN MINE
SHOSHONE COUNTY, IDAHO.

By
Robert M. Gammell*
May 23, 1951.

Tungsten

Summary

The Pony Gulch Tungsten Mine is situated in the eastern slope of Beaver Creek Balley, twelve miles by road north of Wallace, Idaho. The mine has been intermittently worked since about 1919. According to reports, there was a small tonnage of tungsten ore mined from the main adit tunnel (see fig 1). The present main adit tunnel is 3000 feet above sea level. Snowfall is seldom, ifever, sufficient to seriously interfere with truck transport. Ore deposits in this section of the Coeur d'Alene Mining District occurs as replacement veins and as fracture fillings, occuring principally, in fractured Pritchard formation. Because the object of the early prospecting was looking for gold, the present tungsten deposits have not been adequately explored. Nevertheless some very high grade tungsten ore was obtained from the present main adit tunnel. Part of the main adit tunnel dump contains an estimated tonnage of scheelite bearing rock as follows, 100 tons containing about 1.0 percent Wo_3 and 3.0 tons containing 3.0 percent WO_3. The downward and latteral extention of the mineralized zones may project into shoots of important tungsten deposits. It will require considerable drifting, cross cutting, shaft sinking, bulldozer trenching and diamond drilling to adequately explore the known mineralized stucture. To adequately explore the Pony Gulch Tungsten property the above program is recommended to be carried out in two steps.

*Robert M. Gammell - Registered Mining Engineer

The first to cost $114,401.00

The second to cost 183,250.00

If the two steps accomplish positive results, a new tungsten mine of importance will have been developed.

Introduction

Persuant to a request by Frank McKinley, the Pony Gulch Tungsten mine main adit tunnel and immediate vicinity was examined by the writer May 19, 1951. This report presents the data obtained from the examination and and estimated cost of exploring the latteral and downward extention of the mineralized zones.

History

Scheelite bearing float is reported to have been found in Pony Gulch during the early days of the district. In 1918 the scheelite bearing deposit in the creek below the old ore bin was uncovered. The caved adit tunnel, southeast of the old ore bin, may have been driven to explore the latteral extention of the scheelite deposit exposed in the creek. Some time later, the present main adit tunnel was driven (see fig. 1). It is reported that some very high grade tungsten ore was recovered in driving this tunnel. Mr. Frank McKinley plans to adequately explore theknow tungsten deposits and any deposits that may be exposed by dozer trenching and diamond drilling.

Physical Features and Communications

The Pony Gulch Tungsten mine is situated in Pony Gulch about two miles above the mouth of the Gulch. The topography is similar to that of most of the Coeur d'Alene mining district. The hills are steep but rounded, and are generally covered with trees and brush on the sheltered slopes, or with grass and brush on the steeper and more exposed slopes. The relief ranges from about 3000 feet at the portal of the main adit tunnel to 4000 feet on a ridge south of the mine. Crude ore or concentrates can be hauled by truck twelve miles to the Rail Road at Wallace, Idaho.

Labor and Living Conditions

The Pony Creek Tungsten mine can probably obtain men from the labor markets in Wallace and Kellogg, Base wages in 1951 were as follows:

~~Miners and Timbermen~~	~~.....$13.45 per 8 hour shift~~	
Mill Operators	..... 13.45 " " " "	
Shift boss	..... 15.00 " " " "	

Time and one half is paid for Saturday work.

Room and board is available in Wallace or Kellogg. Supplies for operating purposes are usually available in Wallace, Idaho, 12 miles distant. Sufficient water and timber for operating purposes are available on the property.

Property and Ownership

The property consists of nine lode mining claims and four placer claims. The claims are held by location. The claims are owned by George A. Preston, Empire State Building, Spokane, Washington, and are under lease by Mr. Frank McKinley, 622 McKinley Ave., Kellogg, Idaho.

Mine Workings and Plant

The principal workings is the main adit tunnel shown in fig. 1. There are a number of old caved adit tunnels, however there is no data available as to the extent of the workings. No buildings or equipment is on the property.

Description of the Deposits

General Geology:

The geology of the Beaver Mining District was studied in considerable detail by Frank C. Calkins and D. F. MacDonald U.S.G.S. in 1903-1904. They show the area covered by the Pony Gulch Tungsten property to consist principally of the Pritchard formation, the lowest formation of the Belt series. It consists of blue shale and slate with subordinate interbedded gray sandstone and quartzite.

The present main adit tunnel cuts flat dipping pritchard slate for about 80 feet. From 80 feet to 420 feet a fault zone is, in part, exposed. The stike of the zone is south 20 degrees east. The dip is 80 to 85 degrees northeast. The workings for the most part are on the hanging wall side of the fault zone. A number of cross-cuts expose the foot wall of the fault zone. From 200 feet to 260 feet the drift has been widened and the foot wall and hanging wall are exposed. Scheelite occurs disseminated and in bunches along 160 feet of the underground workings. The main scheelite mineralization appears to follow the foot wall structure. The drift in the southeast part of the mine is in the footwall, and off of the main mineralized structure. The present cross cutting has not been carried far enough to adequately explore the structure.

The scheelite zone exposed at point A (see fig. 1) occurs along the bedding planes of highly silicified slate. The silicified zone exposed in the creek is about 35 feet wide. Scheelite can be seen along the bedding planes across a width of about 10 feet. Insufficient work has been done to prove the extent of the deposit.

The ore deposits:

The known tungsten deposits at the Pony Gulch Tungsten mine occur as disseminations, fracture filling and replacement deposits. The gangue mineral is principally quartz and calcite and highly silicified slate. Some pieces of ore found on the dump shows scheelite one inch thick and two inches long attached to highly altered slate. Lumps of scheelite one inch in diameter can be found in the creek at point A.

The Ore

The ore consists of scheelite in a gangue of quartz, calcite and highly altered slate.

Potential Ore Tonnage

The possible or potential tonnage of tungsten from this property could be important, but, until more exploration has been completed, there is no factual data on which to base an estimate.

Conclusion

1. The area included in the Pony Gulch Tungsten property is believed to offer favorable conditions for the existance of strong deposits of tungsten. The known deposits have not been adequately explored.

2. There appears to be a good chance of discovering shoots or deposits of tungsten on the main adit tunnel level, southeast along the foot wall structure. Cross cutting may expose parallel mineralized structure.

3. Additional dozer trenching should be done in the immediate vicinity of the scheelite deposit at point A (see fig. 1). Considerable dozer trenching should be done south and southeast of the present mine workings. It is possible that the property contains large commercial deposits of tungsten. If this point could be proved affirmatively, the production of tungsten would add materially to the national production.

Suggestions for Exploration

Step 1.

a-- Construction of compressor building and installation of compressor. Purchase of necessary mining equipment.

b-- Widening and timbering 100 feet of the present main adit tunnel.

c-- Widening the drift where necessary from the end of the timbering and drifting southeast on the foot wall structure as warrented.

d-- Completing cross cutting as indicated on fig. 1.

e-- Complete dozer trenching to prove surface latteral extention of the mineralized zone at point A.

SUPPLEMENT A

Supplement A - Step 1.

1-20' x 36' steel insulated compressor building	$ 6,500.00
1-1 1/2 ton compressed air locomotive	3,500.00
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8-32 cubic foot card type ore cars	3,600.00
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Diamond Drilling 3000 feet @ $4.00 per foot	12,000.00
Total step No. 1	$114,401.00

Supplement B Step 2.

Mine hoist and motor	$ 16,000.00
Hoist station and rope raise	8,000.00
Cage and skip for sinking shaft	4,500.00
Sinking shaft 550 feet	96,250.00
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Total step No. 2	$183,250.00

Grand total estimated cost..... $297,651.00

f-- Complete close hole diamond drilling of the mineralized zone near point A.

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Robert M. Gammell

Robert M. Gammell

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dma-817.

SUPPLEMENTAL INFORMATION TO ACCOMPANY APPLICATION FOR D.M.A. LOAN FOR KENNAN PROPERTY FOR DEVELOPMENT AND PRODUCTION OF SCHEELITE.

Reference is made to University of Idaho School of Mines Bulletin #2 Volumn XIV, "Tungsten, Cinnabar, Manganese, Molybdenum, and Tin Deposits of Idaho" by D. C. Livingston. January, 1919. Pages 19 to 20, and Page 21.

The following is copies verbatim from the bulletin: Pages 19 and 20:

"KENNAN PROPERTY ON PONY GULCH: This property is situated on Pony Gulch, a tributary of Beaver Creek, about two miles above the mouth of the gulch. The Beaver Creek branch of the O.-W. R. & N. railroad runs along the creek at the mouth of Pony Gulch, so the property is well situated as regards transportation. It is reached by a rather poor wagon road, but one which can be very easily repaired, and which has no bad grades. The elevation at the camp is about 2800 ft. This property, like the Mother Lode, contains blanket-veins of gold-bearing quartz, which were mined quite extensively in the early days. The country rock is Prichard slate, containing some quartzite beds.

A Tungsten-bearing vein was reported to have been found in the bed of Pony Gulch many years ago. The prospector who found it, however, did nothing with it and it became covered with gravel wash and was practically forgotten. In the spring of 1918, A. B. Ward was operating the property for Chester T. Kennan of Spokane, and having heard of this deposit of tungsten, made an attempt to rediscover it by panning the gravel-wash in the creek. He discovered it without very much difficulty and uncovered the vein or lode where it crosses the creek.

The deposit, which is exposed in but one place, consists of a mineralized zone or lode in the Prichard slate with an approximate width of 60 ft. This zone follows the strike of the bedding planes of the slate which is somewhat quartzose at this point. It consists principally of seams of quartz in the shattered quartzitic slate. For about 15 ft. in width this shattered zone contains scheelite. Many individual pieces of scheelite exposed in the creek bed are over 3 in. across and though on the request of the operator no sample was taken, it would be safe to say that the 15 ft. of the lode containing scheelite would assay from 3 to 5 per cent in tungsten oxide.

The strike of the lode was roughly determined at S. 40° E., and the dip is probably to the west, but this is uncertain as the length of the exposure was less than 50 ft. at the time it was visited.

From information furnished recently by Mr. Chester T. Kennan, the writer understands that the lode has been un-

covered on the hillside 100 ft. to the south and that active development of the property is in progress.

This also is a remarkably good showing and one from which a considerable amount of tungsten could be mined very cheaply if the deposit holds its width and values for any distance. Interesting developments are to be expected in the next year."

Copied from Page 21 of the same bulletin:

"Although at present there is virtually no output of tungsten from this district, the writer firmly believes that the district has a future, that with systematic prospecting other deposits will be discovered, and that if prospecting is supplemented by intelligent development and carefully designed mills, the district should add materially to the tungsten production of the country within the next five or six years."

Other than that described by Mr. Livingston, there has been very little work done on the showing. The outcrop is still visible and there is a good showing of Scheelite in a small dump at the portal of an old tunnel driven on or near the strike of the outcrop showing.

Mr. Robert M. Gammell, who was an examining engineer with the United States Bureau of Mines during World War II and in charge of the diamond drilling program conducted by the Bureau of the Pine Creek area of the Coeur d'Alene district during that period made a hasty examination of the mine while it was yet accessible. I am authorized by Mr. Gammell to refer you to him for further information and for his opinions. His address is 416 A South Maple, Kellogg, Idaho.

Mr. T. E. Gillingham, Geologist, whose residence address is 630 McKinley Avenue, Kellogg, Idaho, has seen the property and has granted me permission to refer you to him for his opinion.

SEPARATE SHEET to accompany MF - 103

Pony Gulch Tungsten Mine formerly Kennan

Location: Shoshone County, Idaho

DMA-817 Kennan Property Shoshone, County, Idaho

4. The applicant, Frank McKinley, received his Mining Engineering education at the University of Idaho 1929-1933. The applicant has been continuously employed in the mining industry for 18 years. The applicant is Asst. Mill Superintendent of Bunker Hill and Sullivan Mining Co., Kellogg, Idaho.

   Mr. Robert M. Gammell, Mining Engineer, formerly with the U.S. Bureau of Mines particularly during the program of that bureau covering the Pine Creek district of Shoshone County Idaho. The U.S. Bureau of mines record may be consulted.

   Other reputable engineers, geologists, metallurgists and any engineering service required is available.

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Frank McKinley

dma 817X

MF-202

DMA -817 Kennan Property
Pony Gulch Tungsten

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Shoshone, State of Idaho, described in a certain Exploration Project Contract dated May 29, 1951, between Frank McKinley, the Lessee of said property, and the United States of America;

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

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

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

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

Dated this 14 day of May, 1951

George A. Pond

U. S. GOVERNMENT PRINTING OFFICE 940768

A G R E E M E N T .

THIS AGREEMENT made this 1st day of May, 1950 by and between GEORGE A. PRESTON, hereinafter called "Lessor" and FRANK McKINLEY, hereinafter called "Lessee", WITNESSETH:

That the Lessor, for and in consideration of the royalties hereinafter reserved and the covenants and agreements hereinafter expressed, and by the said Lessee to be kept and performed, has granted, demised and let unto the Lessee the following named unpatented mining property, situate in Beaver Mining District, being in Sections Thirteen (13), Fourteen (14), Eighteen (18), and Twenty-four (24), Township Forty-nine (49) North, Range Four (4), E.B.M. in Shoshone County, State of Idaho, the following thirteen mining claims, the nine first named being lode claims and the four last named placer claims, to-wit:

1. Gold Nugget
2. Evergreen
3. Signal Shot
4. War Eagle
5. Blue Grouse
6. Never Fail
7. Storm King
8. Valentine
9. September
10. Tin Cup
11. Ramblor
12. Cinch
13. Tungsten

All of said location notices are recorded in the office of the County Recorded of Shoshone County, Idaho, to which location notices reference is hereby made for a more particular description thereof.

TO HAVE AND TO HOLD THE SAME unto the said Lessee for a term from to and including

unless sooner terminated or forfeited through the violation of any covenant hereinafter against the said Lessee reserved, or until full payment of the sum of Forty Thousand ($40,000.00) dollars as herein elsewhere provided. Lessees further agree to perform at least Twenty Five Hundred ($2500.00) dollars worth of labor upon the above premises, during the first year of this lease.

And in consideration of such demise, the said Lessee also covenants and agrees with said Lessor as follows, to-wit:

1. To enter upon said mining claims or premises, and to prospect, develop and work the same in minerlike manner and with the end in view of developing the same in a workable and producing mine, and to perform thereon not less than two hundred sixty (260) shifts of labor each calendar year during the term of said lease, unless prevented by fires, strikes, mine casualties or other acts beyond their control; provided, nevertheless, that in the event Lessee is or claims to be unable on account of such acts beyond his control to perform the amount of labor or improvements necessary to hold said mining claims as valid locations at the time same are required to be performed in accordance with the terms thereof, then and in that event when such claim is made by the Lessee, he shall pay in cash to the Lessor the sum necessary to perform said annual labor or improvements to keep said claims in good standing and the said moneys shall, in that event, be expended by Lessor himself for said purpose.

The Lessee shall commence before June 30, 1950 the performance of the necessary assessment work on said claims and agrees to complete the same before the 1st day of October, 1950, and likewise on or before April 15th of each succeeding year,

shall complete performance of the amount of current annual assessment work or improvements required on said claims and in each and all cases immediately upon completion of said necessary assessment work shall make duplicate proof thereof and file one original thereof in the office of the Recorder of Shoshone County, Idaho, and deliver the other duplicate original to the Lessor.

2. To well and sufficiently timber said mine at all points where necessary in the conduct of its operations and where proper in accordance with good mining, and in all respects to conduct its said operations in accordance with good mining.

3. To promptly pay for all labor done and materials and supplies furnished in the prosecution of said work, and to give notice to all persons employed thereon and to all persons furnishing materials and supplies for said work, that the Lessee or his assigns are solely liable therefor and that the Lessor and the said mining premises are not liable therefor, and at all times during the life of this agreement to keep printed or written notices stating the foregoing facts posted in a conspicuous place upon the premises, and also to otherwise comply with all laws of the United States and the State of Idaho with reference to Lessee carrying on mining operations in Idaho in such manner as will protect said premises from claims of liens and will keep same in good standing under Federal and State laws.

4. To occupy and hold all cross or parallel lodes, spurs, or mineral deposits of any kind which may be discovered by the said Lessee or any persons under it in any manner by working within or from the demised ground as the property of the Lessor with privilege of the said Lessee to work and develop the same as a part and parcel of said demised premises.

5. To pay the Lessor as follows:

(a) On all ores, metals, minerals or products mined on said premises, in any manner whatsoever, ten percent (10%) of the net mint or smelter return or selling price received by Lessee.

(b) It is understood that ores shipped to the smelter may be shipped at the option of the Lessee by railroad or by truck and in either event the railroad or the truck operator, as the case may be, shall be paid direct by the smelter and that the net smelter returns, as determined herein, shall be the net sum paid by the smelter after deducting said hauling charge and treatment charge.

(c) All receipts, whether from smelter, mill or otherwise, shall be paid into the Idaho First National Bank, Kellogg, Idaho, which Bank shall hold the same in escrow and is authorized and instructed first to pay to the Lessor the proper royalty in accordance herewith and to pay the balance thereof to the Lessee.

(d) The Lessee shall at all times keep proper and detailed books disclosing all ores, minerals or other products mined or shipped and the same shall be open to the inspection of Lessor at any and all reasonable times.

6. The Lessee agrees to allow the Lessor, his agents or representatives, at all reasonable times, to enter and inspect all work executed and all workings opened up or extended by the Lessee, and to sample any ores that may be found in said claims.

7. And finally upon the violation of any covenant or covenants hereinbefore reserved, the term of this lease shall, at the option of the Lessor, expire and the same and the said premises with the appurtenances shall become forfeited to the Lessor, and the said Lessor, or his agents or representatives, may thereupon, after demand of possession in writing, enter upon said premises and dispossess all persons occupying the same, provided, however, that the Lessor shall, before declaring a forfeiture of this lease, give notice to the Lessee in writing of the particulars in which the lease is claimed to be in default,

and the Lessee shall have thirty (30) days from the service of said notice within which to correct any such default.

8. And in consideration of the acceptance of the foregoing lease and the expenditures to be made thereunder, and the well and faithful keeping of the covenants thereof, the said Lessee shall have the right and the exclusive option during the life of the lease to purchase said mining claims for the sum of Forty Thousand Dollars, all payable by the application of said royalties and rentals to which reference is made herein and by such additional moneys, if any, as shall be added thereto at any time during the life of this agreement by Lessee in such manner as to provide said entire sum of Forty Thousand Dollars, the Lessor agrees, during the life of this lease, not to commit, suffer or permit any act or omission whereby said property or said claims will become encumbered or in any way impaired, and that the deed hereinafter mentioned shall be the only title provided by the Lessor.

9. In the event the Lessee exercises his option to purchase said demises premises, then all sums paid as royalties or otherwise under the foregoing lease shall be applied to the purchase price of said mining property and the Lessee is hereby authorized to deduct the same from any payment that may become due on said purchase price. It is mutually agreed that the Lessee may not assign this lease or sub-let or under-let any of the property described herein without the written consent of the Lessor.

10. The Lessor agrees to forthwith make, execute and place in escrow in said Idaho First National Bank, Kellogg, Idaho, as escrow holder, a good and sufficient mining deed to the said mining claims to be delivered to the Lessee in the event the

payments are made on said total purchase price in the manner and the time hereinbefore provided.

11. Should any dispute arise in connection with any of the matters covered by this agreement, the same shall be submitted to a board of arbitration, and in that behalf each party shall select a representative, and the two persons so selected shall select a third person to act as the third member of said arbitration board. It is understood between the parties hereto that no suit is to be commenced on any dispute arising in connection with the matters covered in this agreement until after the matter has been submitted for arbitration to the board of arbitration.

12. Time is of the essence of this agreement and if the Lessee fail and neglect to perform any covenant in accordance with the terms hereof, then and in that event Lessor may, at his option, upon giving notice as herein provided, terminate this agreement and all sums heretofore paid shall be forfeited to the Lessor as liquidated damages, and said deed so placed in escrow shall be returned to the Lessor.

13. The Lessee may at any time surrender this lease and possession of the leased premises to the Lessor, provided that the Lessee comply with all of the terms and provisions of this lease up to the date of such surrender, and after such surrender the Lessee shall be under no further obligation hereunder. Prior to such surrender the Lessee may remove from the demised premises machinery, equipment or other personal property placed in or at the leased premises by the Lessee.

14. Any and all notices from Lessor to Lessee shall be sent in writing by registered mail addressed to Lessee, care

of Frank McKinley, 622 McKinley Ave., Kellogg, Idaho, or such other address as Lessee may furnish to Lessor from time to time in writing. Any and all notices from Lessee to the Lessor shall be sent in writing by registered mail addressed to Lessor, Empire State Building, Spokane, Washington, or such other address as Lessor may furnish to Lessee from time to time in writing.

15. Each and every clause and covenant of this agreement shall extend to, and be binding upon, the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals this _____ day of _____, 1950.

George A. Preston (SEAL)
GEORGE A. PRESTON.

Isabelle Preston (SEAL)
ISABELLE PRESTON

Frank McKinley (SEAL)
FRANK McKINLEY.

STATE OF WASHINGTON)
) ss.
COUNTY OF SPOKANE)

On this 14 day of May, in the year Nineteen Hundred Fifty, personally appeared GEORGE A. PRESTON and ISABELLE PRESTON, known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate first above written.

J. L. Thomas
Notary Public in and for the
State of Washington,
residing at Spokane.

STATE OF IDAHO)
) ss.
COUNTY OF Shoshone)

On this 29th day of May, in the year Nineteen Hundred Fifty, One personally appeared FRANK McKINLEY, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate first above written.

Ben O. Brahan
Notary Public in and for the
State of Idaho,
residing at NOTARY PUBLIC, Kellogg, Idaho
My Commission Expires Oct. 15, 1953.

SEPARATE SHEET to accompany MF - 103

Pony Gulch Tungsten Mine formerly Kenman

Location: Shoshone County, Idaho

DMA-817 Kenman Property Shoshone, County, Idaho

4. The applicant, Frank McKinley, received his Mining Engineering education at the University of Idaho 1929-1933. The applicant has been continuously employed in the mining industry for 18 years. The applicant is Asst. Mill Superintendent of Bunker Hill and Sullivan Mining Co., Kellogg, Idaho.

Mr. Robert M. Gammell, Mining Engineer, formerly with the U.S. Bureau of Mines particularly during the program of that bureau covering the Pine Creek district of Shoshone County Idaho. The U.S. Bureau of mines record may be consulted.

Other reputable engineers, geologists, metallurgists and any engineering service required is available.

15. Due to the absence of objectionable minerals and the character of the Scheelite in this deposit and excellent recovery and grade of concentrate can be produced by simple gravity concentration. I have fully demonstrated this by laboratory concentration tests. The amount of ore developed will govern any decision as to the construction of a concentration plant. Used equipment is available and a satisfactory plant could be erected quickly and at moderate cost.

Frank McKinley

REPORT OF THE
PONY GULCH TUNGSTEN MINE
SHOSHONE COUNTY, IDAHO.

By
Robert M. Gammell*
May 23, 1951.

Tungsten

Summary The Pony Gulch Tungsten Mine is situated in the eastern slope of Beaver Creek Balley, twelve miles by road north of Wallace, Idaho. The mine has been intermittently worked since about 1919. According to reports, there was a small tonnage of tungsten ore mined from the main adit tunnel (see fig 1). The present main adit tunnel is 3000 feet above sea level. Snowfall is seldom, ifever, sufficient to seriously interfere with truck transport. Ore deposits in this section of the Coeur d'Alene Mining District occurs as replacement veins and as fracture fillings, occuring principally, in fractured Pritchard formation. Because the object of the early prospecting was looking for gold, the present tungsten deposits have not been adequately explored. Nevertheless some very high grade tungsten ore was obtained from the present main adit tunnel. Part of the main adit tunnel dump contains an estimated tonnage of scheelite bearing rock as follows, 100 tons containing about 1.0 percent Wo_3 and 3.0 tons containing 3.0 percent WO_3. The downward and latteral extention of the mineralized zones may project into shoots of important tungsten deposits. It will require considerable drifting, cross cutting, shaft sinking, bulldozer trenching and diamond drilling to adequately explore the known mineralized stucture. To adequately explore the Pony Gulch Tungsten property the above program is recommended to be carried out in two steps.

*Robert M. Gammell - Registered Mining Engineer

The first to cost $114,401.00

The second to cost 183,250.00

If the two steps accomplish positive results, a new tungsten mine of importance will have been developed.

Introduction

Persuant to a request by Frank McKinley, the Pony Gulch Tungsten mine main adit tunnel and immediate vicinity was examined by the writer May 19, 1951. This report presents the data obtained from the examination and and estimated cost of exploring the latteral and downward extention of the mineralized zones.

History

Scheelite bearing float is reported to have been found in Pony Gulch during the early days of the district. In 1918 the scheelite bearing deposit in the creek below the old ore bin was uncovered. The caved adit tunnel, southeast of the old ore bin, may have been driven to explore the latteral extention of the scheelite deposit exposed in the creek. Some time later, the present main adit tunnel was driven (see fig. 1). It is reported that some very high grade tungsten ore was recovered in driving this tunnel. Mr. Frank McKinley plans to adequately explore theknow tungsten deposits and any deposits that may be exposed by dozer trenching and diamond drilling.

Physical Features and Communications

The Pony Gulch Tungsten mine is situated in Pony Gulch about two miles above the mouth of the Gulch. The topography is similar to that of most of the Coeur d'Alene mining district. The hills are steep but rounded, and are generally covered with trees and brush on the sheltered slopes, or with grass and brush on the steeper and more exposed slopes. The relief ranges from about 3000 feet at the portal of the main adit tunnel to 4000 feet on a ridge south of the mine. Crude ore or concentrates can be hauled by truck twelve miles to the Rail Road at Wallace, Idaho.

Labor and Living Conditions

The Pony Creek Tungsten mine can probably obtain men from the labor markets in Wallace and Kellogg. Base wages in 1951 were as follows:

Miners and Timbermen	.....$13.45	per 8 hour shift
Mill Operators	..... 13.45	" " " "
Shift boss	..... 15.00	" " " "

Time and one half is paid for Saturday work.

Room and board is available in Wallace or Kellogg. Supplies for operating purposes are usually available in Wallace, Idaho, 12 miles distant. Sufficient water and timber for operating purposes are available on the property.

Property and Ownership

The property consists of nine lode mining claims and four placer claims. The claims are held by location. The claims are owned by George A. Preston, Empire State Building, Spokane, Washington, and are under lease by Mr. Frank McKinley, 622 McKinley Ave., Kellogg, Idaho.

Mine Workings and Plant

The principal workings is the main adit tunnel shown in fig. 1. There are a number of old caved adit tunnels, however there is no data available as to the extent of the workings. No buildings or equipment is on the property.

Description of the Deposits

General Geology:

The geology of the Beaver Mining District was studied in considerable detail by Frank C. Calkins and D. F. MacDonald U.S.G.S. in 1903-1904. They show the area covered by the Pony Gulch Tungsten property to consist principally of the Pritchard formation, the lowest formation of the Belt series. It consists of blue shale and slate with subordinate interbedded gray sandstone and quartzite.

The present main adit tunnel cuts flat dipping pritchard slate for about 80 feet. From 80 feet to 420 feet a fault zone is, in part, exposed. The stike of the zone is south 20 degrees east. The dip is 80 to 85 degrees northeast. The workings for the most part are on the hanging wall side of the fault zone. A number of cross-cuts expose the foot wall of the fault zone. From 200 feet to 260 feet the drift has been widened and the foot wall and hanging wall are exposed. Scheelite occurs disseminated and in bunches along 160 feet of the underground workings. The main scheelite mineralization appears to follow the foot wall structure. The drift in the southeast part of the mine is in the footwall, and off of the main mineralized structure. The present cross cutting has not been carried far enough to adequately explore the structure.

The scheelite zone exposed at point A (see fig. 1) occurs along the bedding planes of highly silicified slate. The silicified zone exposed in the creek is about 35 feet wide. Scheelite can be seen along the bedding planes across a width of about 10 feet. Insufficient work has been done to prove the extent of the deposit.

The ore deposits:

The known tungsten deposits at the Pony Gulch Tungsten mine occur as disseminations, fracture filling and replacement deposits. The gangue mineral is principally quartz and calcite and highly silicified slate. Some pieces of ore found on the dump shows scheelite one inch thick and two inches long attached to highly altered slate. Lumps of scheelite one inch in diameter can be found in the creek at point A.

The Ore

The ore consists of scheelite in a gangue of quartz, calcite and highly altered slate.

Potential Ore Tonnage

The possible or potential tonnage of tungsten from this property could be important, but, until more exploration has been completed, there is no factual data on which to base an estimate.

Conclusion

1. The area included in the Pony Gulch Tungsten property is believed to offer favorable conditions for the existance of strong deposits of tungsten. The known deposits have not been adequately explored.

2. There appears to be a good chance of discovering shoots or deposits of tungsten on the main adit tunnel level, southeast along the foot wall structure. Cross cutting may expose parallel mineralized structure.

3. Additional dozer trenching should be done in the immediate vicinity of the scheelite deposit at point A (see fig. 1). Considerable dozer trenching should be done south and southeast of the present mine workings. It is possible that the property contains large commercial deposits of tungsten. If this point could be proved affirmatively, the production of tungsten would add materially to the national production.

Suggestions for Exploration

Step 1.

a— Construction of compressor building and installation of compressor. Purchase of necessary mining equipment.

b— Widening and timbering 100 feet of the present main adit tunnel.

c— Widening the drift where necessary from the end of the timbering and drifting southeast on the foot wall structure as warrented.

d— Completing cross cutting as indicated on fig. 1.

e— Complete dozer trenching to prove surface latteral extention of the mineralized zone at point A.

SUPPLEMENT A

Supplement A - Step 1.

1-20' x 36' steel insulated compressor building	$ 6,500.00
1-1 1/2 ton compressed air locomotive	3,500.00
1-Diesel driven 450 cubic foot compressor	12,250.00
8-32 cubic feet card type ore cars	3,600.00
1-Mucking machine	3,200.00
2-Gardner reverse feed stopers complete with air and water hose	1,520.00
1-Air bar	150.00
Drill steel	300.00
500 Timken 2" bits	150.00
20-Timken carbide bits	240.00
1-24" mine fan	431.00
30 ton 20 Lb. mine rail	4,300.00
1000 feet of 4" air pipe	1,000.00
1000 feet 1" water pipe	660.00
Tools and Misc. equipment	1,600.00
Widening and timbering 100 feet of mine tunnel	3,000.00
Drifting 1000 feet	30,000.00
Cross cutting 500 feet	15,000.00
Raising 500 feet	10,000.00
Dozer trenching 500 hours @ $10.00 per hour	5,000.00
Diamond Drilling 3000 feet @ $4.00 per foot	12,000.00
Total step No. 1	$114,401.00

Supplement B Step 2.

Mine hoist and motor	$ 16,000.00
Hoist station and rope raise	8,000.00
Cage and skip for sinking shaft	4,500.00
Sinking shaft 550 feet	96,250.00
Pocket and station on 500 level	6,000.00
Drifting 1000 feet	35,000.00
Raising 500 feet	17,500.00
Total step No. 2	$183,250.00

Grand total estimated cost $297,651.00

f— Complete close hole diamond drilling of the mineralized zone near point A.

g— Complete dozer trenching south and southeast of the present mine workings. This work to be followed by diamond drilling if justified.

Step 2.

Sinking a 550 foot shaft and completing necessary drifting. This to be followed by additional work if justified.

/s/ Robert M. Gammall

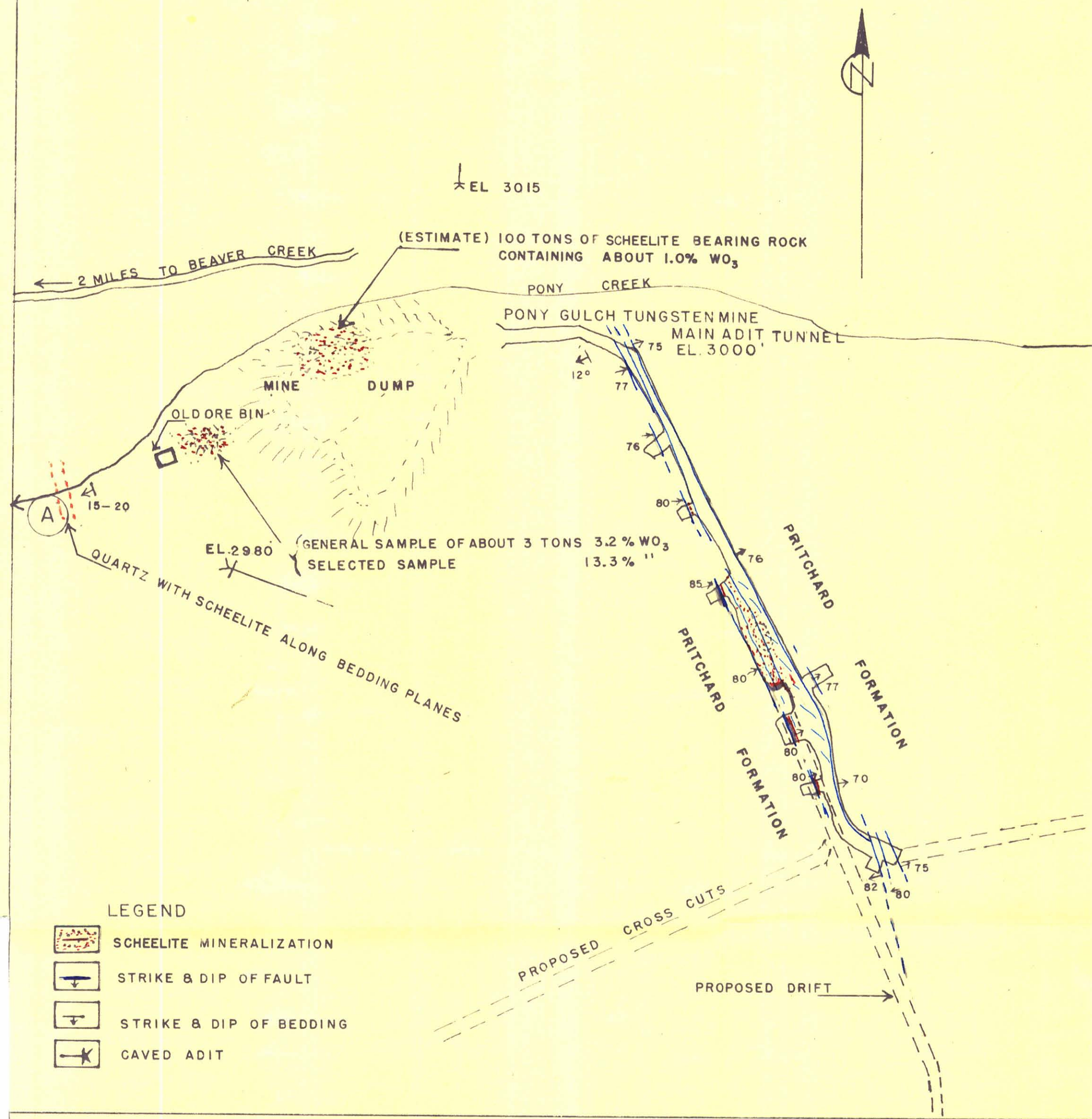

FIG I

PONY GULCH TUNGSTEN
BEAVER MINING DISTRICT
SHOSHONE COUNTY, IDAHO.
SCALE 1" = 50 FEET
MAY 1951

ROBERT M. GAMMELL BRUNTON SURVEY

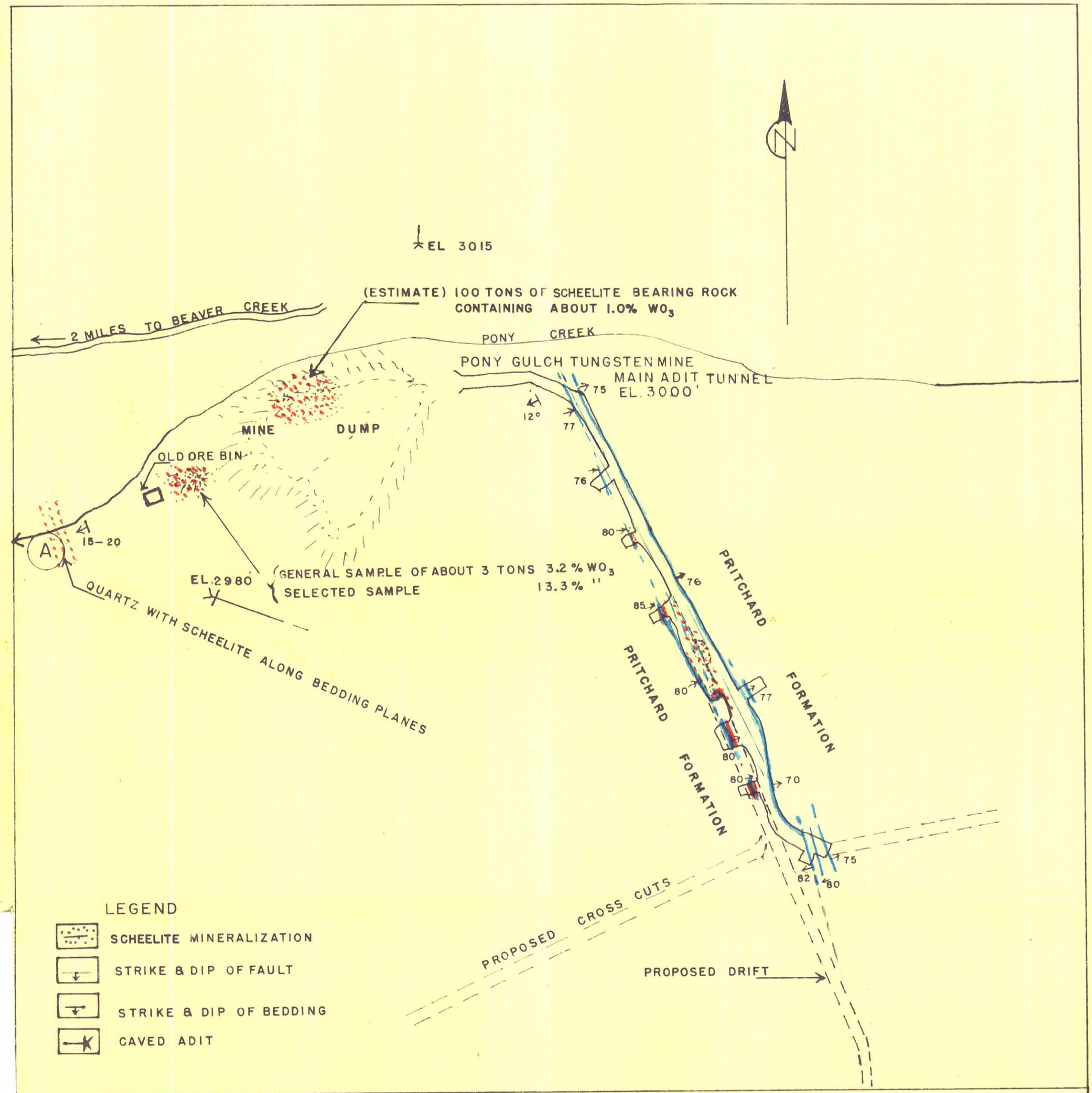

FIG I

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SHOSHONE COUNTY, IDAHO.
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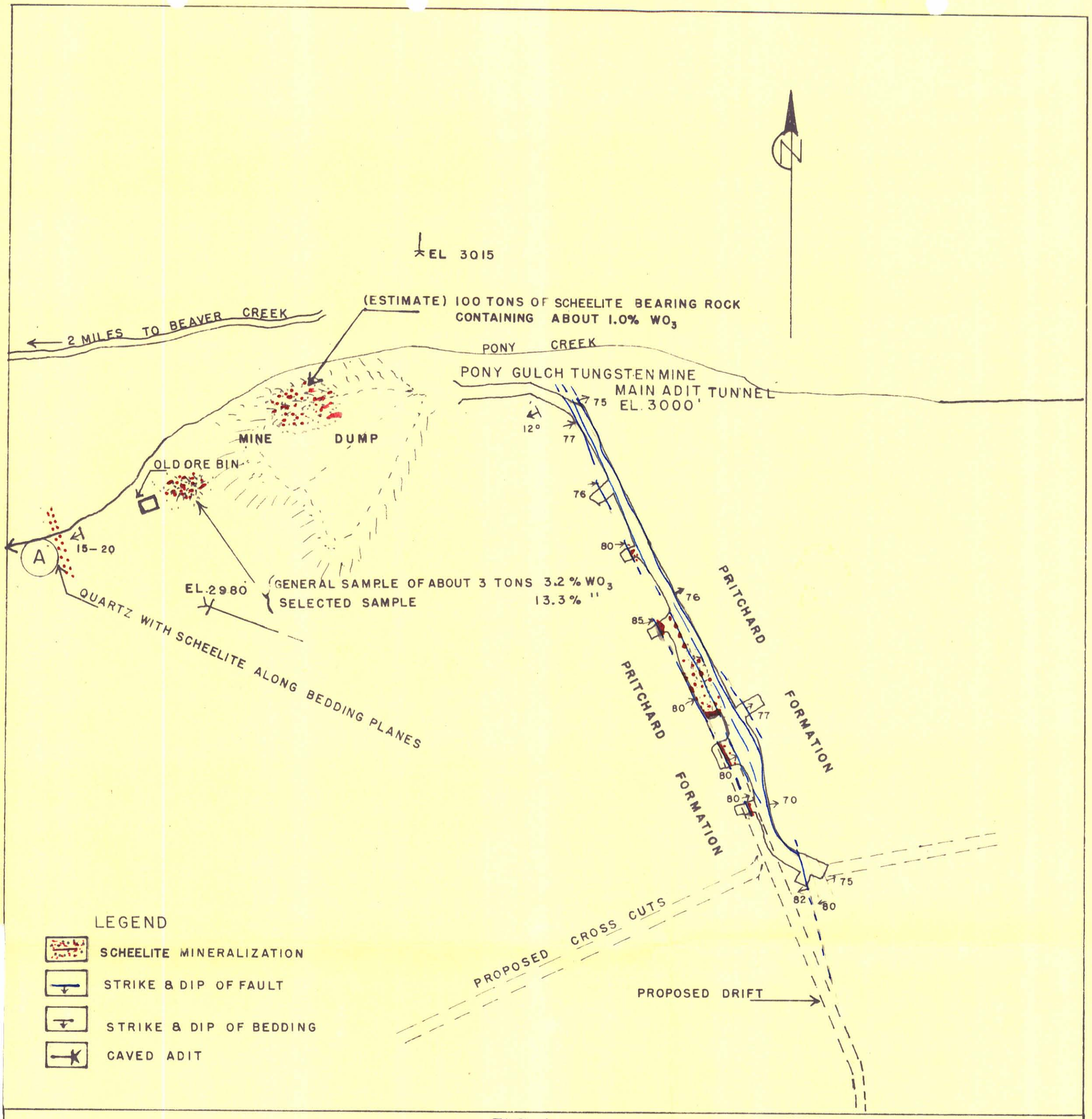

FIG I

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SHOSHONE COUNTY, IDAHO.
SCALE 1"=50 FEET
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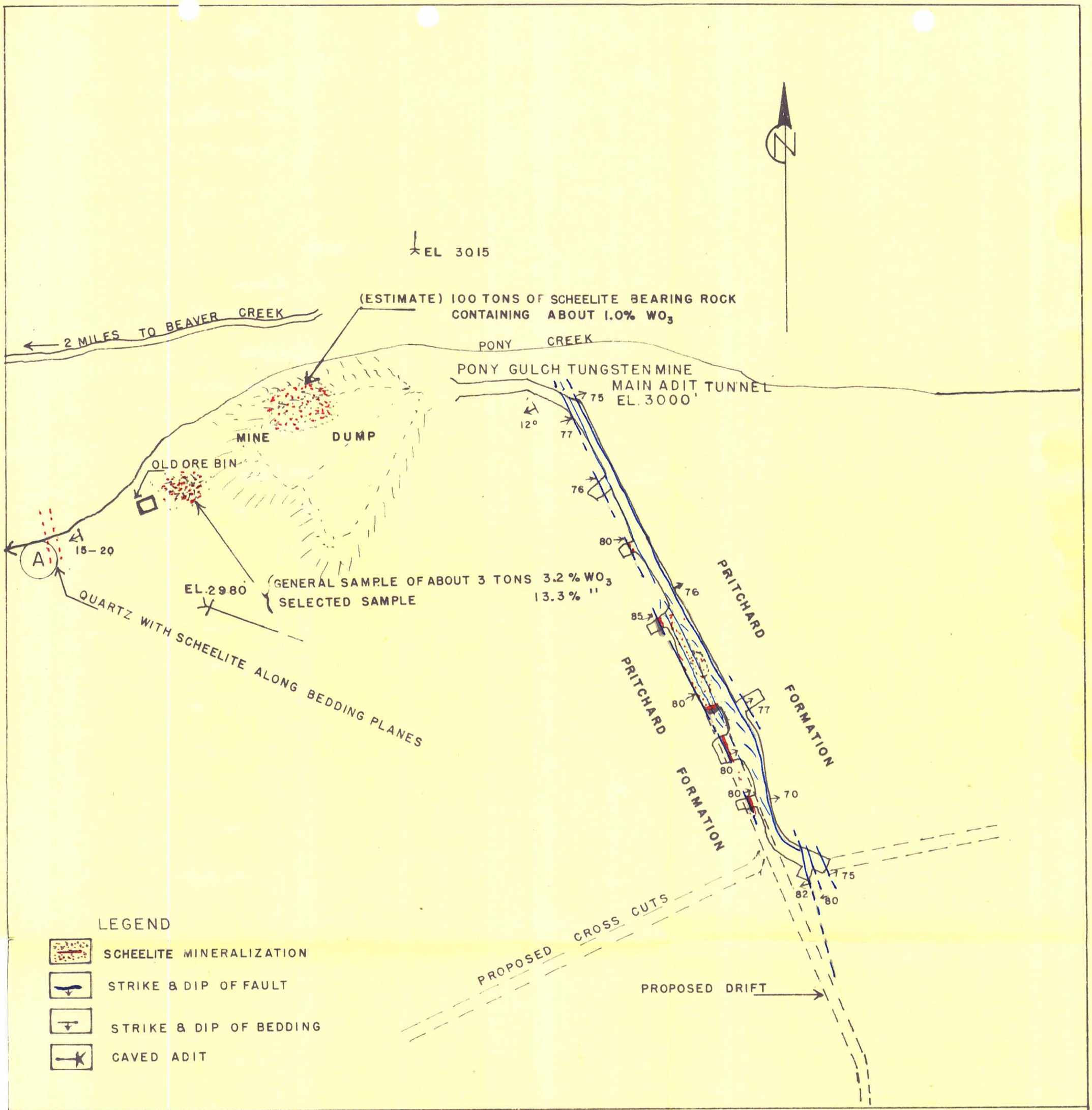

FIG I

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SHOSHONE COUNTY, IDAHO.
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