DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3411

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Exploration Assistance

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Cys to USBM & USGS

Routing Slip

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CONTROLLED DOCUMENT

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Griswold
Hedges
Bolbridge
Kiilsgaard
FE Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SEP 1 6 1954

Messrs. Cloud D. Fox and
Joe Brandt
Bonners Ferry, Idaho

Re: Docket No. DMEA-3411 (Copper-Cobalt)
Messrs Cloud D. Fox &
Joe Brandt
Glenferney, et al Claims
Boundary County, Idaho

Dear Sirs:

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

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

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

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

Sincerely yours,

Frank E. Johnson
ACTING Administrator

WRGriswold/er 9/13/54

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Region II (2)
Mr. Kiilsgaard Rm 5227
Mr. C. H. Johnson, USBM
Chron.

R.C.S.

File Copy
Surname

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

September 13, 1954

Memorandum

To: Administrator

From: Chief, Base Metals Division

Subject: Denial of application, Docket No. DMEA-3411 (Copper)
Claud D. Fox & Joe Brandt
Boundary County, Idaho

The application is based upon the occurrence of a quartz vein crossing the contact of quartzites and a basic sill. From the Field Team report, it appears to be a typical shrinkage stress or "gash" vein. Mineralization is scant, one small patch showing a little chalcopyrite, but in general the vein shows only quartz with fine grained pyrite.

The commodity members are in accord with the field that the application be denied, an opinion with which we concur.

W. R. Griswold

W. R. Griswold

WRG;er 9/13/54

Copy to: Docket
Base Metals
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

September 13, 1954

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The commodity members are in accord with the field that the application be denied, an opinion with which we concur.

W. R. Griswold

W. R. Griswold

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

September 8, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3411 (Copper-cobalt) Fox and Brandt, Boundary County, Idaho

The report by Puffett, August 17, 1954, adequately supports the recommendation by himself, which is concurred in by the Field Team, on the same date, that the application be denied. The map by Kellum and Puffett shows that only a single occurrence of scattered copper-bearing sulfides, no more than 5 feet in length, was visible in the lower adit. Presumably no other occurrence of copper minerals was to be seen on the property excepting a pile of quartz at the portal containing thin stringers and some disseminated chalcopyrite.

The document is returned herewith.

C. H. Johnson

C. H. Johnson

Attachment

Copy to - Mr. Newcomb, USGS
Minerals Division
C. H. Johnson
Files

IN REPLY REFER TO:

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

August 26, 1954

Re: DMEA-3411
Fox & Brandt Property
Boundary Co., Idaho
Copper-Cobalt

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Concurrence with Field Team denial

The applicant proposed to extend lower adit 200 feet, sink 300 feet of shaft, and drift and crosscut 300 feet from shaft bottom.

The Field Team has recommended the application be denied.

The nature of the deposit as a quartz vein with only sparse amounts of sulfides and the apparent pinching out of the vein at depth indicates DMEA assistance on this property is not justified.

I concur with the Field Team and recommend the application be denied.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

August 26, 1954

Re: DMEA-3411
Fox & Brandt Property
Boundary Co., Idaho
Copper-Cobalt

Memorandum

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I concur with the Field Team and recommend the application be denied.

E. L. Newcomb

ELNEWCOMB:hlm
G-8/26/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
C. E. Johnson, 3621

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~XXXXXXXXXXXXXXXX~~
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

August 17, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3411 (copper-cobalt)
Claud D. Fox and Joe Brandt
Boundary County, Idaho

Dear Mr. Selfridge:

Enclosed is an appraisal of the above-cited application by W. P. Puffett. The Field Team concurs with the recommendation that the application be denied.

By Field Team, Region II

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure
cc: USGS(2)
Puffett

Reviewed by
DMEA OPERATING COMMITTEE
8-27-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 17, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3411 (copper-cobalt), Application Examination, Claud D. Fox and Joe Brandt property, Boundary County, Idaho.

APPLICANT

Mr. Claud D. Fox, Bonners Ferry, Idaho, and
Mr. Joe Brandt, P. O. Box 518, Selah, Washington

RECOMMENDATIONS AND SUMMARY

It is recommended that the application be denied. On the applicants' property are two short adits which have explored a quartz vein striking across a contact between quartzite and a basic sill. This vein represents a typical tension crack filling commonly found along the contact between the metasediments and basic sills in the area. In the lower adit there is a very small concentration of pyrrhotite and chalcopyrite in the vein, and in the upper adit there is scattered disseminated pyrite in the vein near the portal. There is no evidence that the vein contains commercial quantities of ore minerals.

EXAMINATION

Mr. Ben Kellum, geologist, Geological Survey, and I examined the property on July 19, 1954. Mr. Claud Fox, one of the applicants, accompanied us to the property. Mr. Bill Ellis, a rancher in the area, furnished the transportation from his ranch to the property and also accompanied us during the examination. The two short adits were mapped, and a tape and compass traverse was made between the two adit portals. The map based on this work accompanies this report.

PROPERTY

The applicants' property comprises 7 unpatented mining claims. The claims are known as Glassfarney, Antifarney, Rockery,

Reviewed by
DMEA OPERATING COMMITTEE
8-26-54
(date)

Lumberjack, Rookery No. 2, Rookery No. 3, and Arithmetic Extension No. 1. These claims adjoin the Great Northern Railroad on the east, and to the Kootenai River, and extend westward along Twenty Creek, about 2 miles east of Bonner, Idaho, a siding of the Great Northern Railroad. The approximate location of the properties is in sec. 6, T. 61 N., R. 3 E., Boise Meridian, Boundary County, Idaho.

To reach the property from Bonners Ferry, Idaho, turn right from near the south end of East Montana Street and follow this graveled road for 3.7 miles; turn left and follow the road for 0.9 mile to the Paradise Valley Road; follow this road for 6.6 miles; turn right and follow a narrow dirt road for 3.5 miles to the Hicks ranch. A very primitive jeep road extends from the ranch for about 3 miles to the lower adit on the property. Altitude at the portal of the lower adit is approximately 2,000 feet.

The lower adit extends westward into the base of a steep cliff for 184 feet. The upper adit, at an altitude of 2,063 feet, extends westward into the cliff for 40 feet.

The lower adit is timbered for 31 feet between the portal and a caved area. Beyond this cave it had not been necessary to timber, but the caved ground had dammed the adit so that upwards of three feet of water observed the sill of the adit to near its face.

A large pile of broken rock and surface debris had sloughed near the portal of the upper adit, but a sufficiently large opening remained to permit entrance for examination. No timbering had been necessary in the upper adit.

No surface facilities exist on the property. Twenty Creek, about 1,000 feet east of the portal of the lower adit and about 300 to 400 feet lower in altitude, contained a small amount of water on the day of the examination. A fair stand of spruce and pines covers the hill slopes in the area.

PROPERTY RIGHTS

The applicants have a lease with option to buy at the end of one year from November 6, 1953. The purchase price is $10,000, with $5,000 being due upon the exercise of the option, and the remaining $5,000 to be paid as 10 percent of the net smelter returns of production for a period of two years. The owners of the property are Robert Chadwick and his wife, Agnes Chadwick, of Bonners Ferry, Idaho.

COMPETENCY OF APPLICANT

Mr. Fox states that he has had 10 years of practical mining experience. In recent years he has been doing contract

business in Oakland, California. During 1952 and 1953, he was resident manager and a member of the board of directors of the Kootenai Mine Mines, Incorporated, in Lemmia, Idaho. He has some practical knowledge of mining geology, but obviously has insufficient understanding of geology to judge competently the merits of any but the most simple vein systems.

Mr. Everett has a general contracting sand and gravel business in Selah, Washington.

GEOLOGY

The geology of the general area in which the applicants' property is located has been described by Kirkham and Ellis in Idaho Bureau of Mines and Geology Bulletin No. 10. According to Plate III which accompanies this bulletin, the underlying rocks in the area are pre-Cambrian metasediments, probably St. Regis or Wallace formations, into which thick and extensive basic sills have been intruded. The major structural feature in the area is the Mayie fault. On the west side of this fault the sediments strike northerly and dip about 45° E., and on the east side they strike more northwesterly and dip steeply to the west. The applicants' property is on the west side of this major fault.

The two adits on the property explore a quartz vein which strikes nearly due west across the contact between well-bedded gray quartzites and a coarse-grained basic sill. In the upper adit the sill appears to be mainly gabbro, whereas in the lower adit the material in the sill is more similar to a lamprophyre.

The quartz vein appears to be very extensive along its dip length. It can be traced on the surface from the lower adit to at least 100 feet above the upper adit. Within the lower adit the true nature of this vein can be most easily determined. In the quartzite, the vein attains a maximum width of only a few inches, but within the basic material of the sill, the vein widens to at least 10 feet in thickness and at the face of the adit it narrows to 2 to 3 feet and appears to be gradually thinning. The vein walls dip both to the north and to the south, indicating that the vein is essentially lenses-like in form.

Kirkham and Ellis[1] describe veins similar to the above as follows:

"These veins which cut the contact of quartzite and basic sills seem to be greatly in the minority. They appear

1/ Kirkham, V. R. D., and Ellis, E. W., Geology and ore deposits of Boundary County, Idaho: Idaho Bureau of Mines and Geology Bull. No. 10, p. 45, Nov. 1926.

to be strongest in the basic sills and to finger out in the quartzite. This is what one would expect if the fissures were due to shrinkage stresses. The fissuring would progress into the metamorphics only a very short distance, if at all. Any force sufficiently great to cause fissuring of the quartzite to any extent would probably be independent of the contraction of the adjacent igneous rock but would be likely to take place along the smaller crack which would constitute a plane of weakness."

As can be seen on the accompanying geologic map, the above description can apply to the vein in the lower adit on the applicants' property. Actually, I believe this vein is a typical representative of a tension crack filling which is sometimes known as a gash-vein.2/

The vein material is predominantly massive white quartz, although there are pods of coarse-grained marble occurring sporadically along either vein wall. In the lower adit, a small concentration of chalcopyrite and pyrrhotite occurs in the central part of the vein just west of the sill-quartzite contact. Near the portal of the upper adit, much fine-grained pyrite is disseminated throughout the vein. There were no exposures of the vein which contained sufficient ore minerals to merit sampling.

Near the portal of the lower adit a small stockpile contains about 3 or 4 tons of the vein material in which scattered thin stringers and some disseminated chalcopyrite and pyrrhotite could be seen. The applicant had some of this material analyzed with a spectroscope, and the resulting analysis indicated the presence of 0.3 to 3.0 percent copper and 0.03 to 0.3 percent cobalt.

There are no known ore reserves on the property.

APPLICANTS' PROPOSAL

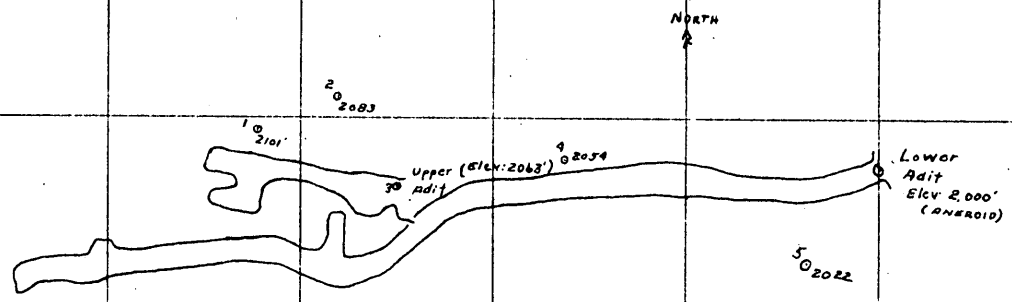
The applicants have proposed a project to extend the lower adit 200 feet, sink 300 feet of vertical shaft, and drift and crosscut 300 feet from the bottom of the shaft.

Indications are that the vein will pinch completely as it is followed further into the sill. The scant amount of sulfides in the vein material suggests that no ore will be found by any further exploration.

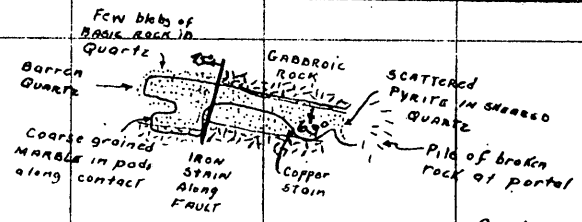
2/ McKinstry, H. E., Mining Geology, Prentice-Hall Inc., 1948, p. 299

Attachment 1
Distribution:
DMEA(4)
USBM(2)
USGS(GMO)
Docket
Puffett

DOCKET No. DMEA 3911 (COPPER - COBALT)



COMPOSITE PLAN OF UPPER AND LOWER ADITS



Geology of Upper ADIT

EXPLANATION

GRAY QUARTZITE SHOWING STRIKE AND DIP OF BEDDING

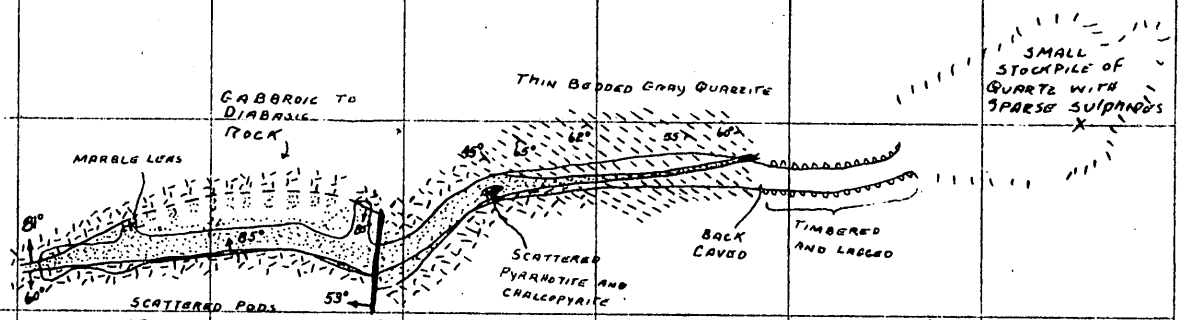
BASIC, COARSE-GRAINED SILL

QUARTZ VEIN

SULPHIDES

FAULT, SHOWING DIP

TAPE AND COMPASS TRAVERSE STATION, SHOWING ELEVATION



GEOLOGY OF LOWER ADIT

GEOLOGIC PLAN MAP
of
FOX and BRANDT PROPERTY
Sec. 6, T61N, R.3E, B.M., BOUNDARY COUNTY, IDAHO

1" = 40'

Tape & Brunton SURVEY 7-19-59

D. KELLUM, H.R. PUFFETT } U.S.G.S.

"ALBANENE" No. 190BM K&E CO., N.Y. REG. U.S. PAT. OFF

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 17, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3411 (copper-cobalt)
Claud D. Fox and Joe Brandt
Boundary County, Idaho

Dear Mr. Selfridge:

Enclosed is an appraisal of the above-cited application by W. P. Puffett. The Field Team concurs with the recommendation that the application be denied.

By Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure
cc: USBM(2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 17, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

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APPLICANT

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Mr. Joe Brandt, P. O. Box 518, Selah, Washington

RECOMMENDATIONS AND SUMMARY

It is recommended that the application be denied. On the applicants' property are two short adits which have explored a quartz vein striking across a contact between quartzite and a basic sill. This vein represents a typical tension crack filling commonly found along the contact between the metasediments and basic sills in the area. In the lower adit there is a very small concentration of pyrrhotite and chalcopyrite in the vein, and in the upper adit there is scattered disseminated pyrite in the vein near the portal. There is no evidence that the vein contains commercial quantities of ore minerals.

EXAMINATION

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PROPERTY

The applicants' property comprises 7 unpatented mining claims. The claims are known as Glanfarney, Ardfarney, Rookery,

Lantherim, Rookery No. 2, Rookery No. 3, and Ardfarney Extension No. 1. These claims adjoin the Great Northern Railroad on the east, next to the Kootenai River, and extend westward along Tween Creek, about 2 miles east of Katka, Idaho, a siding of the Great Northern Railroad. The approximate location of the properties is in sec. 6, T. 61 N., R. 3 E., Boise Meridian, Boundary County, Idaho.

To reach the property from Bonners Ferry, Idaho, turn right from near the south end of East Montana Street and follow this gravelled road for 3.7 miles; turn left and follow the road for 0.9 mile to the Paradise Valley Road; follow this road for 6.6 miles; turn right and follow a narrow dirt road for 3.5 miles to the Ellis ranch. A very primitive jeep road extends from the ranch for about 3 miles to the lower adit on the property. Altitude at the portal of the lower adit is approximately 2,000 feet.

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No surface facilities exist on the property. Tween Creek, about 1,000 feet east of the portal of the lower adit and about 300 to 400 feet lower in altitude, contained a small amount of water on the day of the examination. A fair stand of spruce and pines covers the hill slopes in the area.

PROPERTY RIGHTS

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business in Oakland, California. During 1952 and 1953, he was resident manager and a member of the board of directors of the Kootenai Dike Mines, Incorporated, in Leonia, Idaho. He has some practical knowledge of mining geology, but obviously has insufficient understanding of geology to judge competently the merits of any but the most simple vein systems.

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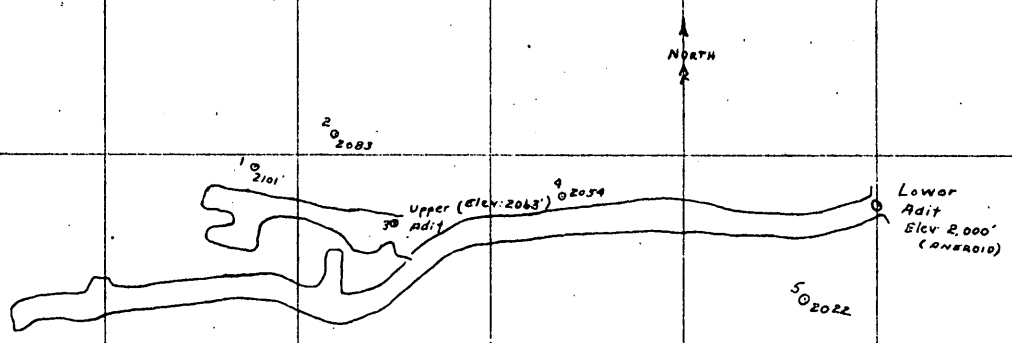
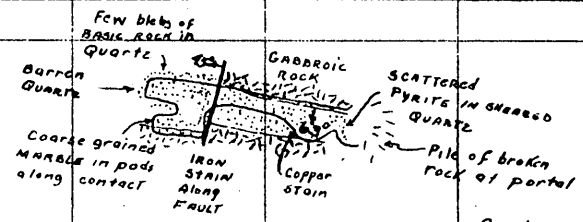
2/ McKinstry, H. E., Mining Geology, Prentice-Hall Inc., 1948, p. 299

Attachment 1
Distribution:
DMEA(4)
USBM(2)
USGS(SRO)
Docket
Puffett

DOCKET NO. DMEA 3911 (COPPER - COBALT)



COMPOSITE PLAN OF UPPER AND LOWER ADITS



Geology of Upper Adit

EXPLANATION

Gray Quartzite Showing Strike and Dip of Bedding

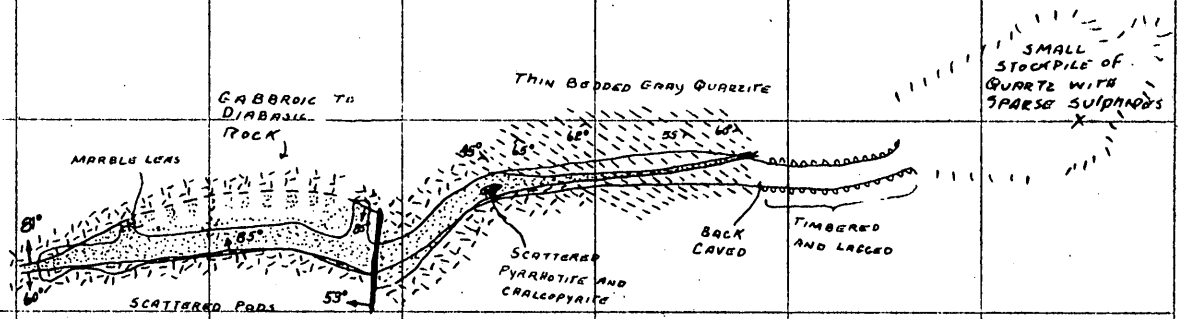
Basic, Coarse-Grained Sill

Quartz Vein

Sulphides

Fault, Showing Dip

Tape and Compass Traverse Station, Showing Elevation



Geology of Lower Adit

GEOLOGIC PLAN MAP
of
FOX and BRANDT PROPERTY
Sec. 6, T61N, R.3E, B.M., BOUNDARY COUNTY, IDAHO

1" = 40'

Tape & Brunton Survey 7-19-54

D. Kellum, W.P. Puffett } U.S.G.S.

"ALDANENE" No. 190M K&E CO., N.Y. REG. U.S. PAT. OFF.

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

JUL 15 1954

July 14, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3411 (Copper) Fox and Brandt

I have reviewed the above-named application which has reference to seven unpatented mining claims near Katka, a siding on the "G & NRR" - somewhere out west, unspecified. Applicant proposes a $42,000 drifting, crosscutting, and shaft sinking exploration project with no justification whatsoever excepting a spectographic analysis that shows trace amounts of several metals, including copper. I think the application lacks sufficient justification for exploration to merit referral to the Field Team.

The application is returned herewith.

C. H. Johnson

Attachment

Copy to - Mr. Newcomb - USGS
Minerals Division
C. H. Johnson
Files

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BUREAU OF MINES
WASHINGTON 25, D. C.

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

July 13, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA - 3411 Fox, Claud D. & Joe Brandt

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

July 13, 1954
Subject: DMEA-3411
Re: Exploration Assistance

Mr. Claud D. Fox
& Joe Brandt
Bonners Ferry
Idaho

Gentlemen:

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

Your application has been assigned Docket Number DMEA-3411 and referred to the

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 7, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: DMEA application (cobalt-copper)
Claud D. Fox and Joe Brandt
Boundary County, Idaho

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application received from Claud D. Fox and Joe Brandt of Bonners Ferry, Idaho, and Selah, Washington, respectively, for the exploration of a property in the Moyie-Yaak mining district on Tween Creek, Boundary County, Idaho. The application is poorly prepared and gives little information. It is stated, however, that a drift on the property will be opened after July 5, 1954 and, in order to settle the matter, we will schedule a field examination after that date.

Sincerely yours,

A. E. Weissenborn
imc

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
[illegible] 17 Lowell Street
[illegible] 4, Washington

July 7, 1954

Mr. George [illegible] Schlitzer, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: DMEA application (cobalt-copper)
Claud D. Fox and Joe Brandt
Boundary County, Idaho

Dear Mr. Schlitzer:

Enclosed are the original and two copies of an application received from Claud D. Fox and Joe Brandt of Bonners Ferry, Idaho, and Selah, Washington, respectively, for the exploration of a property in the Moyie-Yaak mining district on Tweer Creek, Boundary County, Idaho. The application is poorly prepared and gives little information. It is stated, however, that a drift on the property will be opened after July 5, 1954 and, in order to settle the matter, we will schedule a field examination after that date.

Sincerely yours,

A. [illegible] Wedzenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: [illegible] (2)

B.M.B. 7/13/54

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R10552.

RECEIVED
JUL 1 1954
U. S. G. S.
SPOKANE, WASH.

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

Not to be filled in by applicant

Docket No. 3411
Metal or Mineral Copper, et al.
Date Received
Estimated Cost $41,748
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Claud D. Fox Bonners Ferry, Idaho

Mr. Joe Brandt P.O. box 518, Selah, Washington

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract The property consists of 7 unpatented mining claims, 2 wide and 3 long, with one off set in the center, claims adjoin the G. & N. R.R. on the east, extending westardly along Tween Creek, about 2 mile east of Katka a siding of the G.& N. R.R.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Purchaser under contract

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

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Book #4 pages 608, 614, 615, 619

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore Copper, Cobalt, Titanium, Nickel and Manganese.

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

(*c*) The work will start within 15 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[ ] Money [X] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated _____, 195__

_____
(Applicant)

By_____

_____

_____

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

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

CLAUD D. FOX
BONNERS FERRY, IDAHO

#4. (a) PHYSICAL DESCRIPTION

There is no exploration being conducted at present, past exploration consists of considerable drifting in the lime dike to the south of Tween Creek near the G. & N. R. R. in the search of and production of gold. These workings are now inaccessable.

There has been about 450 feet of drifting on the vein under consideration with this application, upper drift though short, shows considerable Brassy and Black Manganese, the longer drift about 100 feet lower on the vein is some 405 feet in length and is indicative of strong mineralization with more depth (spectrographic analysis enclosed). Our interest in later being a vantage point from which to conduct our proposed exploration project.

The drift is now closed by caving at the portal, but will be reopened to permit examination, on or about July 5, 1954.

#4. (b) Past production consists of about 30 tons of mill feed, taken out and placed on the dump, there being no current production.

#4. (c) Rugged and mountainous, affording a depth of about 900 feet by the present tunnel and is sufficiently faulted, diked and fissured for the disposition of ore in commercial quanities. These dikes extend to the apes of the mountain. Three separate fissures are well defined on the seven claims. The main tunnell at the present workings shows a depth of 15 feet of quartz from hanging wall to foot wall. The claim adjoining the river east of the old cabin has a very large lime dike running through it. The quartz is of a high quality of mineral bearing quartz (Spectrographic analysis enclosed). Shale appears in the tunnel for a short distance when it comes in contact with diorite and seams of quartz show considerable mineralization. The country rock consists of sedimentary and igneaous rocks. The general course of these fissure veins being Easterly and Westerly.

Our desire to carry out an exploration project on the property, arises from a Geological and Geo-physical examination. The past work carried on and the degree of mineralization disclosed by the past work. We feel the possibilities of making a significant discovery of strategic minerals are highly favorable, by a reasonable amount of exploration work.

#4. (d) The project is idealy located as to shiping, being adjoined by the G. & N.R.R. with ample room for siding track. Supply and residence points will be within easy reach, after the construction of 4 and 1/2 mile of access road. Both local co-op and Bonneville power are but a short distance away, with water being in abundance.

#4. (e) Manpower, materials, supplies, equipment and water being readily obtainable, while power can be obtained when needed.

#5. (b) The work to be performed calls for clearing away of the caved section near the portal a distance of some 30 feet by dozer. The rerouting and reconstruction of 4 and 1/2 mile of access road. The continuation of the present drift a distanne of 200 feet, 300 feet of vertical shaft to be sunk with in the vein and 300 feet of drifting and crosscuts at the 300 foot level.

#5. (d) The applicant has 10 years of practical mine experience and is acquainted with both lode and placer mining technique. Also other various business experience. Served as a member of board of Directors, Secretary, Labor Relations, Director and Resident manager Kootenai Dike Mines, Inc., Leonia, Idaho, June 1952 to October 1953, when he left the corporation due to internal friction. The project calls for him to serve as working supervisor, togather with Mr. Joe Brandt, partner, Mr. Brandt has conducted his own general contracting business at Yakima, Wash. for many years, together with a sand and gravel business. Mr. Brandt is a member of the City Council, Selah, Washington, and is well qualified to serve as a working supervisor and assistance manager.

CLAUD D. FOX
BONNERS FERRY, IDAHO

#6. ESTIMATE OF COST:

(a)
Independent contracts...None

(b)
Labor Supervision, consultants:

6 qualified miners @ $16.40 per day for 90 days	$5904.00
1 dozer operator @ $20.40 per day for 30 days	612.00
1 oiler machinest @ $16.00 per day for 90 days	1440.00
1 clearical @ $225.00 per month for three months	675.00
2 working supervisors @ $500.00 per month for 3 months	3000.00
No engineering or geological consultants contemplated	
TOTAL	$11,629.00

#6. (c)
Operating materials and supplies

Powder	$2979.00
Caps	279.00
Facing iron for shaft guides	360.00
Head frame and shaft timber	800.00
Cross ties, green cutting	200.00
4000 lbs used mine track	200.00
3 used mine cars	135.00
1 used sinking bucker	75.00
1 air winch, used good condition	400.00
1 doz. carbidt mine lights	45.00
3600 gal. of gas.	1084.00
600 gal. diesel	102.00
moter and lub oil	270.00
hardware, bolts, nuts, brace iron, spikes, etc.	400.00
100 lbs. carbidt	80.00
2 Highspeed automatic drifting drills	1400.00
TOTAL	$8809.00

#6. (d)
OPERATING EQUIPMENT:
The following equipment is quoted at standard rental cost.

1 buldozer 30days	$3000.00
1 12 foot road blade 30 days	750.00
1 truck 30 days	1080.00
1 truck 90 days	3240.00
2 2 foot, 2 4 foot, 2 6 foot and 2 8 foot drill steel 90 days	90.90
800 feet air hose and fitting 90 days	504.00
30 through away drill bits	600.00
2 sinking drills 90 days	228.00
winch cable - 325 feet	157.00
ark welder and genorator 90 days	840.00
power shovel 3/4 yard 30 days	3000.00
power wrenchs, saws, etc. 90days	300.00
miscellaneous hand tools, picks, shovels, hammers, etc.	150.00
TOTAL	$13,940.40

CLAUD D. FOX
BONNERS FERRY, IDAHO

#6. (e)
REHABILITATION AND REPAIRS:

None

#6. (f)
NEW BUILDINGS, IMPROVEMENTS, INSTALLATIONS:

Compressor and tool room, rough pole and plyboard	$300.00
Powder room storage	200.00
TOTAL	$500.00

#6. (g)
MISCELLANEOUS

Repairs and maintenance extimated at 5% of total supply and equipment.

Cost	$1067.45
Analytical not to exceed	700.00
Accounting	200.00
Workmans Compensation	618.72
Payroll taxes	688.41
TOTAL	$3074.58

#6. (h)
CONTINGENCIES:

Ten per cent of the total cost of the project figured to cover unforseeable price rise, etc.

$3795.27

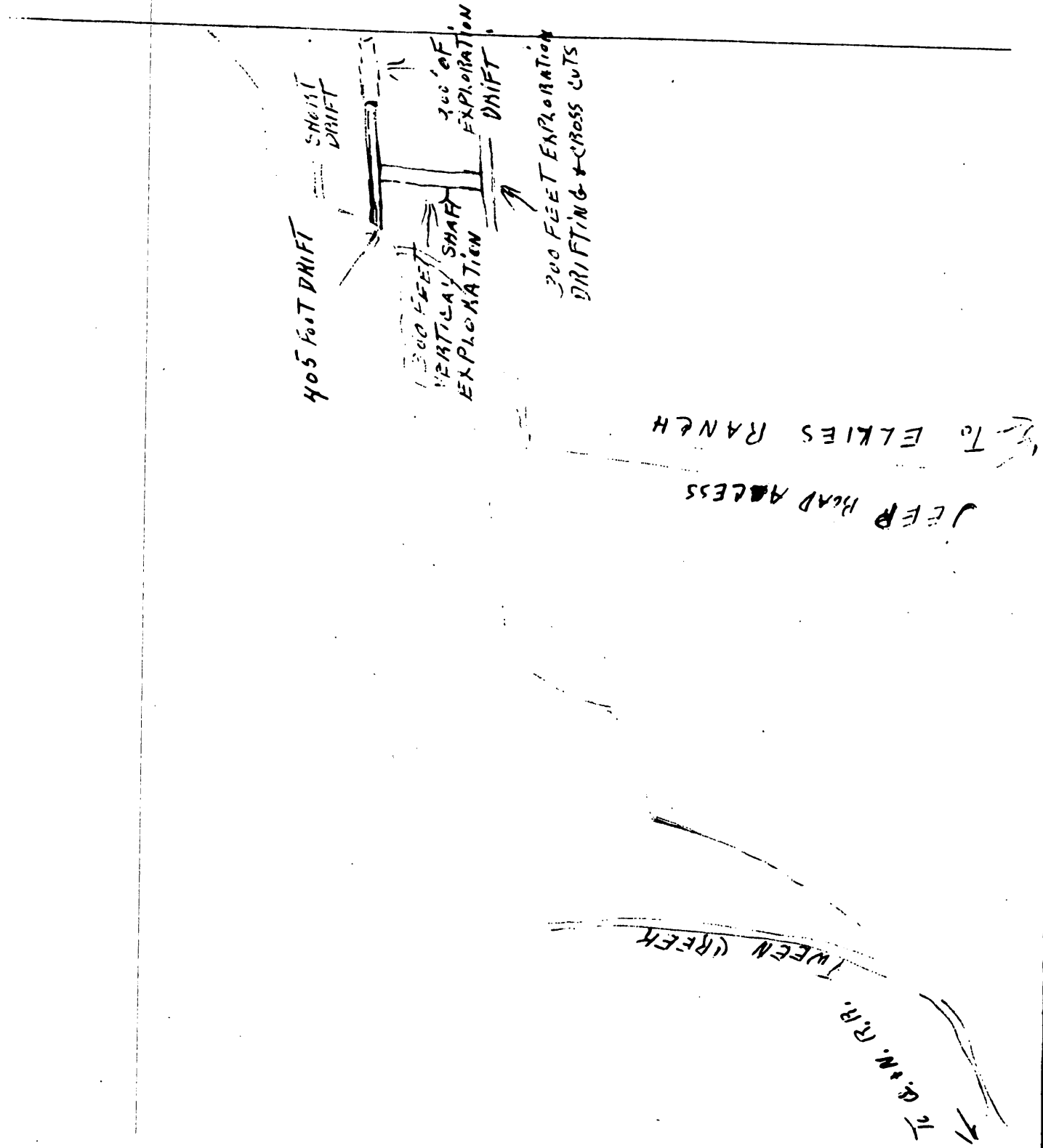
#6-B. Labor, supervision and consultants	$11,828.00
#6-C. Operating materials and supplies	8,809.00
#6-D. Operating equipment	13,940.40
#6-E. Rehabilatation and repairs	none
#6-F. New buildings, improvements, installations	500.00
#6-G. Miscellaneous	3,074.58
#6-H. Contingencies	3,795.27

TOTAL PROJECT COST $41,748.27

#7 (b)
Due to or purchase agreement on the property involved and capital expenditures involved in continuing the exploration work in to a full production program at the conclusion of the exploration contract, it is desirable on our part that our contribution be the basis of equipment and services, as outlined in paragraph #6-D, operating equipment paragraph #6-B, shown as supervision, of the application. We feel this to be the most suitable as to both parties, to insure a sufficient exploration progaam and insure the means of production if comercial minerals are found.

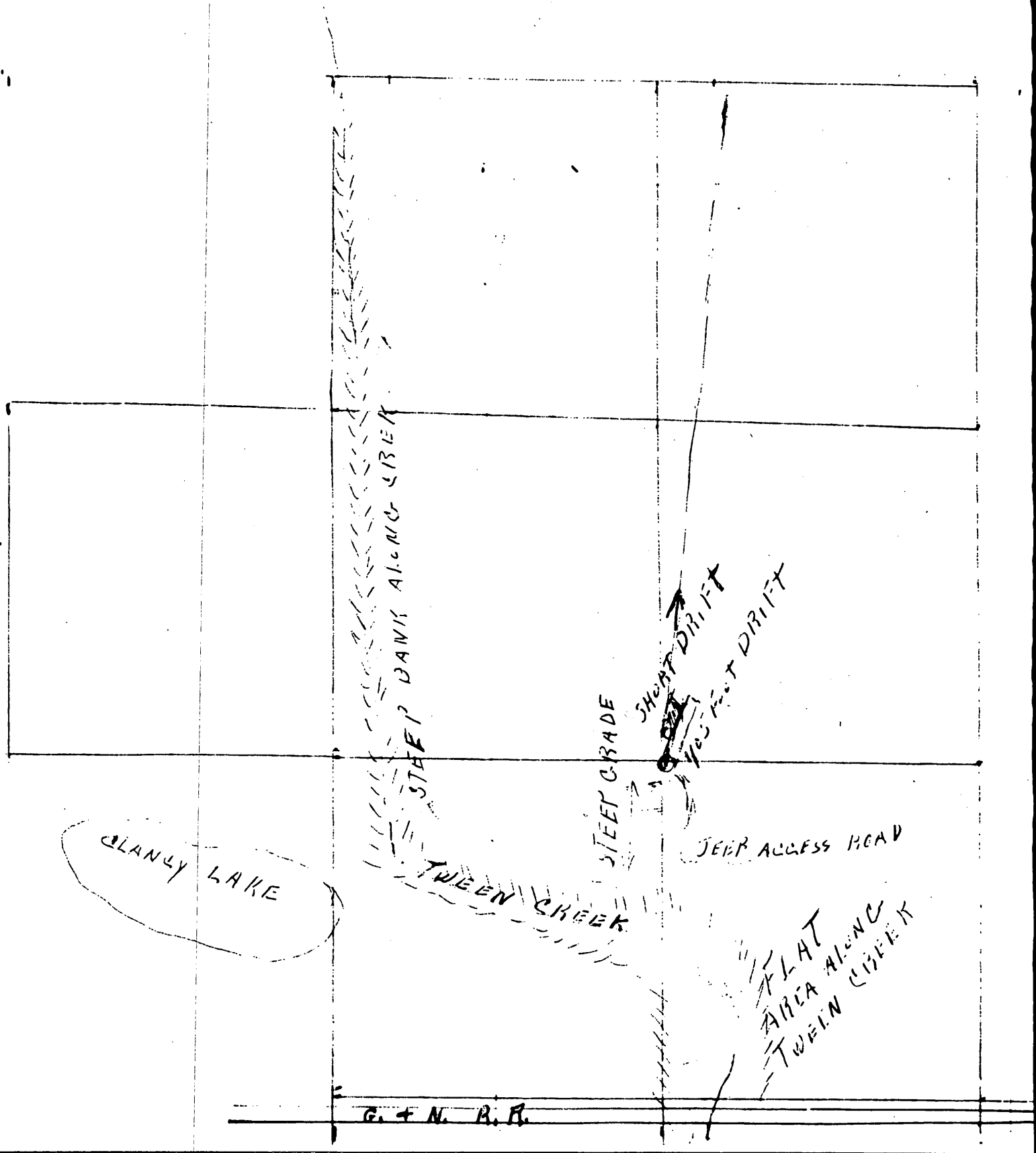
Claud D. Fox
Bonners Ferry, Idaho

Sketch showing cross-section of proposed project.



Claud D. Fox
Bonners Ferry, Idaho

Sketch showing general location of claim, Tween creek, Jeep access road, Clancy Lake, G. & N. R.R. ect.



C
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P
Y

LABORATORY REPORT
ABBOT A. HANKS, INC.
Engineers, Assayers, Chemists, Metallurgists
Consulting - Testing - Inspecting
Established 1866
624 Sacramento Street
San Francisco 11, California
Telephone Garfield 1-1697

Lab No. 62679 Date December 22, 1953

Submitted by Claud Fox
830 - 51st Street
Oakland, California Sample Mark Sample #1 Large

QUALITATIVE SPECTROGRAPHIC ANALYSIS
METALS FOUND
AND ESTIMATED PERCENTAGE RANGE

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Arsenic	Aluminum	Copper	Silicon	
Lead	Calcium		Iron	
Nickel	Magnesium			
Vanadium	Zinc			
Chromium	Cobalt			
Manganese	Titanium			
Silver				
Sodium				
Potassium				

REMARKS

RESPECTIFULLY SUBMITTED,

ABBOT A. HANKS, INC.
Original signed by
By Martin P. Quist
Spectro-Chemist

bob

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUL 1 1954
U. S. G. S.
SPOKANE, WASH.

AUG 12 1954

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

Not to be filled in by applicant

Docket No. 3411
Metal or Mineral Copper, et al.
Date Received
Estimated Cost $41,748
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Claud D. Fox Bonners Ferry, Idaho

Mr. Joe Brandt P.O. box 518, Selah, Wasington

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

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

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3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract The property cosists of 7 unpatented mining claims, 2 claims wide & 3 long, with one off set southward in the center, claims adjoin the G.& N. R.R. on the east, extending westardly along Tween Creek, about 2 mile east of Katka a siding of the G.& N. R.R.

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Copper, Cobalt, Titanium, Nickel and Manganese.

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

(*c*) The work will start within 15 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated _____, 195__

_____
(Applicant)

By_____

_____

_____

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

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

CLAUD D. FOX
BONNERS FERRY, IDAHO

#4. (a) PHYSICAL DESCRIPTION

There is no exploration being conducted at present, past exploration consists of considerable drifting in the lime dike to the south of Tween Creek near the G. & N. R. R. in the search of and production of gold. These workings are now inaccessable.

There has been about 450 feet of drifting on the vein under consideration with this application, upper drift though short, shows considerable Brasey and Black Manganese, the longer drift about 100 feet lower on the vein is some 405 feet in length and is indicative of strong mineralization with more depth (spectrographic analysis enclosed). Our interest in later being a vantage point from which to conduct our proposed exploration project.

Defense Minerals Administration
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JUL 12 1954

The drift is now closed by caving at the portal, but will be reopened to permit examination, on or about July 5, 1954.

#4. (b) Past production consists of about 30 tons of mill feed, taken out and placed on the dump, there being no current production.

#4. (c) Rugged and mountainous, affording a depth of about 900 feet by the present tunnel and is sufficiently faulted, diked and fissured for the disposition of ore in commercial quanities. These dikes extend to the apes of the mountain. Three separate fissures are well defined on the seven claims. The main tunnell at the present workings shows a depth of 15 feet of quartz from hanging wall to foot wall. The claim adjoining the river east of the old cabin has a very large lime dike running through it. The quartz is of a high quality of mineral bearing quartz (Spectrographic analysis enclosed). Shale appears in the tunnel for a short distance when it comes in contact with diorite and seams of quartz show considerable mineralization. The country rock consists of sedimentary and igneaous rocks. The general course of these fissure veins being Easterly and Westerly.

Our desire to carry out an exploration project on the property, arises from a Geological and Geo-physical examination. The past work carried on and the degree of mineralization disclosed by the past work. We feel the possibilities of making a significant discovery of strategic minerals are highly favorable, by a reasonable amount of exploration work.

#4. (d) The project is idealy located as to shiping, being adjoined by the G. & N.R.R. with ample room for siding track. Supply and residence points will be within easy reach, after the construction of 4 and 1/2 mile of access road. Both local co-op and Bonneville power are but a short distance away, with water being in abundance.

#4, (e) Manpower, materials, supplies, equipment and water being readily obtainable, while power can be obtained when needed.

#5. (b) The work to be performed calls for clearing away of the caved section near the portal a distance of some 30 feet by dozer. The rerouting and reconstruction of 4 and 1/2 mile of ascess road. The continuation of the present drift a distanne of 200 feet, 300 feet of vertical shaft to be sunk with in the vein and 300 feet of drifting and crosscuts at the 300 foot level.

#5. (d) The applicant has 10 years of practical mine experience and is acquainted with both lode and placer mining technique. Also other various business experience. Served as a member of board of Directors, Secretary, Labor Relations, Director and Resident manager Kootenai Dike Mines, Inc., Leonia, Idaho, June 1952 to October 1953, when he left the corporation due to internal friction. The project calls for him to serve as working supervisor, togather with Mr. Joe Brandt, partner, Mr. Brandt has conducted his own general contracting business at Yakima, Wash. for many years, together with a sand and gravel business. Mr. Brandt is a member of the City Council, Selah, Washington, and is well qualified to serve as a working supervisor and assistance manager.

CLAUD D. FOX
BONNERS FERRY, IDAHO

#6. ESTIMATE OF COST:

(a)
Independent contracts...None

(b)
Labor Supervision, consultants:

6 qualified miners @ $16.40 per day for 90 days	$5904.00
1 dozer operator @ $20.40 per day for 30 days	612.00
1 oiler machinest @ $16.00 per day for 90 days	1440.00
1 clearical @ $225.00 per month for three months	675.00
2 working supervisors @ $500.00 per month for 3 months	3000.00
TOTAL	$11,629.00

No engineering or geological consultants contemplated

#6. (c)
Operating materials and supplies

Powder	$2979.00
Caps	279.00
Facing iron for shaft guides	360.00
Head frame and shaft timber	800.00
Cross ties, green cutting	200.00
4000 lbs used mine track	200.00
3 used mine cars	135.00
1 used sinking bucker	75.00
1 air winch, used good condition	400.00
1 doz. carbidt mine lights	45.00
3600 gal. of gas.	1084.00
600 gal. disel	102.00
moter and lub oil	270.00
hardware, bolts, nuts, brace iron, spikes, etc.	400.00
100 lbs. carbidt	80.00
2 Highspeed automatic drifting drills	1400.00
TOTAL	$8809.00

#6. (d)
OPERATING EQUIPMENT:
The following equipment is quoted at standard rental cost.

1 buldozer 30days	$3000.00
1 12 foot road blade 30 days	750.00
1 truck 30 days	1080.00
1 truck 90 days	3240.00
2 2 foot, 2 4 foot, 2 6 foot and 2 8 foot drill steel 90 days	90.90
800 feet air hose and fitting 90 days	504.00
30 through away drill bits	600.00
2 sinking drills 90 days	228.00
winch cable - 325 feet	157.00
ark welder and genorator 90 days	840.00
power shovel 3/4 yard 30 days	3000.00
power wrenchs, saws, etc. 90days	300.00
miscellaneous hand tools, picks, shovels, hammers, etc.	150.00
TOTAL	$13,940.40

CLAUD D. FOX
BONNERS FERRY, IDAHO

#6. (e)
REHABILITATION AND REPAIRS:

None

#6. (f)
NEW BUILDINGS, IMPROVEMENTS, INSTALLATIONS:

Compressor and tool room, rough pole and plyboard	$300.00
Powder room storage	200.00
TOTAL	$500.00

#6. (g)
MISCELLANEOUS

Repairs and maintenance extimated at 5% of total supply and equipment.

Cost	$1067.45
Analytical not to exceed	700.00
Accounting	200.00
Workmans Compensation	618.72
Payroll taxes	688.41
TOTAL	$3074.58

#6. (h)
CONTINGENCIES:

Ten per cent of the total cost of the project figured to cover unforseeable price rise, etc.

$3795.27

#6-B. Labor, supervision and consultants	$11,629.00
#6-C. Operating materials and supplies	8,809.00
#6-D. Operating equipment	13,940.40
#6-E. Rehabilatation and repairs	none
#6-F. New buildings, improvements, installations	500.00
#6-G. Miscellaneous	3,074.58
#6-H. Contingencies	3,795.27

TOTAL PROJECT COST $41,748.27

#7 (b)
Due to or purchase agreement on the property involved and capital expenditures involved in continuing the exploration work in to a full production program at the conclusion of the exploration contract, it is desirable on our part that our contribution be the basis of equipment and services, as outlined in paragraph #6-D, operating equipment paragraph #6-B, shown as supervision, of the application. We feel this to be the most suitable as to both parties, to insure a sufficient exploration program and insure the means of production if comercial minerals are found.

LABORATORY REPORT
ABBOT A. HANKS, INC.
ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1866
624 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1697

Lab. No. 62679

Date December 22, 1953

Submitted by Claud Fox
830 - 51st Street
Oakland, California

Sample Mark Sample #1 Large

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Arsenic	Aluminum	Copper	Silicon	
Lead	Calcium		Iron	
Nickel	Magnesium			
Vanadium	Zinc			
Chromium	Cobalt			
Manganese	Titanium			
Silver				
Sodium				
Potassium				

Remarks

RESPECTFULLY SUBMITTED,
ABBOT A. HANKS, INC.

bob

By _____
Spectro-Chemist

A-5

OPTION

THIS INDENTURE, Made this 6 day of November, 1953, by and between Robert Chadwick and Agnes Chadwick, husband and wife of Bonners Ferry, Idaho, hereinafter called the sellers, and Claude D. Fox of Bonners Ferry, Idaho, hereinafter called the purchaser .

WITNESSETH: That for and in consideration of the sum of One Dollar ($1.00) to sellers in hand paid by the purchaser, receipt of which is hereby acknowledged, the sellers do hereby grant, extend and give unto the purchaser the right and option to purchase within one year from the date of this agreement, certain unpatented mining claims hereinafter described. The purchase price shall be Ten thousand Dollars ($10,000.00), payable Five thousand Dollars ($5,000.00) in cash upon the exercise of this option and the balance payable by purchaser assigning to the sellers Ten per cent (10%) of the net mint smelter returns for a period of two years, and if there remain any unpaid balance at the end of said two year period, the purchaser shall thereupon pay said balance to said sellers in cash.

Sellers agree to convey good and proper title to the said claims, free of any encumbrances or liens asserted against the said claims through any action or admission of the said sellers and the sellers further agree that during the life and term of this agreement, they shall do all things necessary to protect the said claims from lien or encumbrance.

The said claims are unpatented mining claims in the Moyie-Yaak mining district approximately two miles East of Katka Creek and being West of Boulder Creek. Location notices of the said mining claims are on file in the Office of the County Recorder of Boundary County, Idaho, and the said claims are known and described as follows, to-wit:

Glanfarney, Ardfarney, Rookery, Letherim, Rookery No. 2, Rookery No. 3, Ardfarney Extension No. 1.

IN WITNESS WHEREOF, the parties of the first part have hereunto set their hands the day and year in this agreement first above written.

Robert Chadwick

Agnes Chadwick

STATE OF IDAHO)
) ss.
County of Boundary)

On this 6 day of November, 1953, before me the undersigned Notary Public, personally appeared Robert Chadwick and Agnes Chadwick, husband and wife, 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 affixed my official seal, the day and year in this certificate first above written.

Owen Entsfield
Notary Public for the State of Idaho
Residing at Bonners Ferry, Idaho.

Notary Public for the State of Idaho
residing at Bonners Ferry, Idaho
My Commission Expires Aug. 10, 1955

Spokane, Washington
July 5, 1929.

Mr. James Clancy
Bonners Ferry, Idaho.

Dear Sir:

It was your desire and request that I make an inspection of your mining property two miles up the Kootenai and Great Northern Railway, from Katka, Idaho, at my earliest convenience and report my findings to you.

I will make a partial report at this time of which I trust will meet the desired information.

TOPOGRAPHY:
Rugged and mountainous, affording a depth of about 900 feet by tunnel and is sufficiently faulted, diked and fissured for the deposition of ore in commercial quantities. These dikes extend to the apex of the mountain. Three separate fissures are well defined on the four claims. The main tunnel at your present working shows a depth of 15 feet of quartz from hanging wall to foot wall. The claim adjoining the river east of your cabin has a very large lime dike running through it.

FORMATION:
The quartz if of a high quality of mineral bearing quartz. Shale appears in your tunnel for a short distance when it comes in contact with diorite and seams of quartz which contain copper, gold and silver. The country rock consists of sdeimentry and Igneous rocks. To the South and West I observe some quartzite, and along the center of your claim some Grandiorite, Diorite seems to be the principal contact rock. The general course of these fissures veins are Easterly and Westerly.

DEVELOPEMENT
Principally by one tunnel, approximately 450 feet in length in which about 30 tons of milling ore has been taken out and placed on the dump.

ORE:
Gold, Silver, and Copper are the principal ores taken out at present depth, while at a much greater depth gelena will predominate. Cholcocite and Chalcopyrite appear in the quartz seams. Values taken from the dump run 13% copper, Silver 2½ oz. Gold ½ oz.

REMARKS:
Your property is very encouraging and a promising prospect for any one with the necessary means to develope it.

CONCLUSION:
I would advise that you continue driving your present tunnel 200 feet further on the vein, thereby gaining more depth and proving your property.

Depth is one of the most essential points to be considered in prospecting and mining.

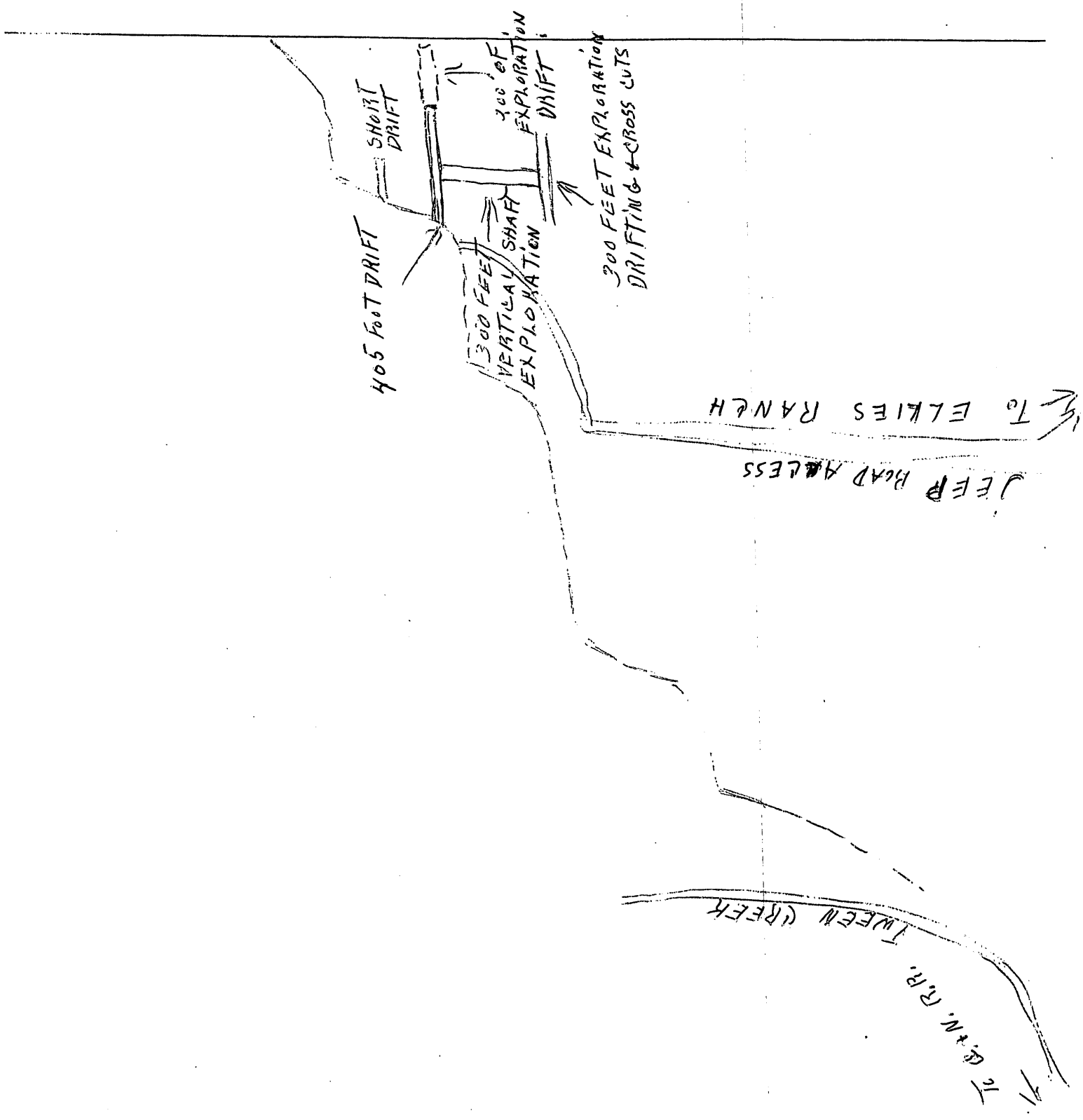
I am satisfied that with greater depth you will get commercial ore.

Respectfully submitted,

C. L. BUTLER.

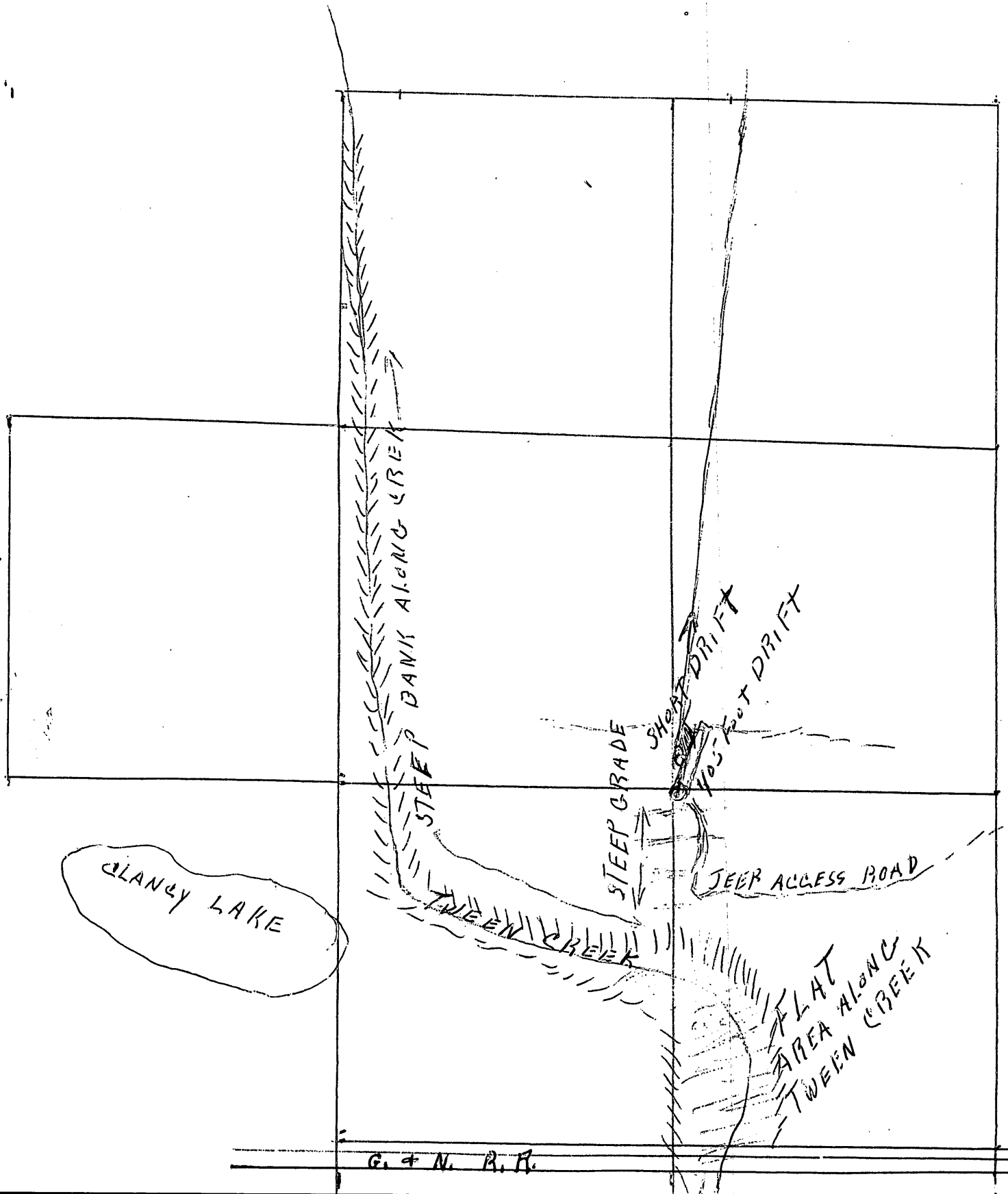
Claud D. Fox
Bonners Ferry, Idaho

Sketch showing cross-section of proposed project.



Claud D. Fox
Bonners Ferry, Idaho

Sketch showing general location of claim, Tween creek, Jeep access road, Clancy Lake, G. & N. R.R. ect.



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

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P. O. Box 560
Juneau, Alaska

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DEFENSE MINERALS EXPLORATION

ADMINISTRATION

WASHINGTON 25, D. C.