DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2454

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION PROJECT

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

Copies to USBM, USGS.

To:	~~Code 700, Rm. 4640~~	Date	3-31-52
To:	~~Op. Com.~~	Date	6-27-52
To:	C. H. Johnson	Date	8-12-52
To:	Ned Nelson	Date	
To:	Opr. Com	Date	8-13-52
To:	Mittendorf	Date	
To:	Mails + Files	Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
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To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
700 SURNAME:

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

Ellis
Jordan
Nelson
Lammon
Johnson
Johnson

AUG 14 1952

BY

Mr. Fred H. Hartwell
P. O. Box 513
Miller, Idaho

Re: Docket No. [illegible]-2454 (Copper Manganese)
Hartwell Prospect
Elko County, Nevada

Dear Mr. Hartwell:

Reference is made to your application for an exploration project filed under the above captioned docket number.

By letter of April 10, 1952, we outlined certain information which we require in order to evaluate the merits of your property. We again wrote you on May 29. Your letter of June 13, 1952 stated that because of your age, health and financial condition you were unable to do the work necessary to supply the information and furthermore indicated that the tunnel was inaccessable. Under the circumstances, we regret to inform you that the application must be denied.

If in the future you should do any work at your property thus making the workings accessable, and you desire to submit new application including the information previously requested, we will be glad to consider such an application at that time.

Sincerely yours,

C. O. Mittendorf (for) J.N. 8-14-52

Acting Administrator

LWEllis/jem
8/12/52
cc to: Adm. Reading File
Docket
Messrs. ChJohnson-3621
Ned Nelson-4216 GSA
Ellis
Opr. Committee
Field Team, Region III (2)

8/11/52 glw

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

Office of
Executive Officer
DMEA Field Team
Region III

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

August 4, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2454 (Copper-Manganese), Hartwell Prospect, Elko County, Nevada

Reference is made to your subject letter to me, dated June 30, in which you requested information concerning the applicant, Mr. Fred H. Hartwell of Filer, Idaho.

We were unable to obtain the desired information, so on your suggestion, Mr. Bailey of the Survey wrote Mr. A. E. Weissenborn at Spokane, Washington.

A reply with apologies for the delay has now been received from Mr. Weissenborn, which states that his files contain no information on Mr. Hartwell.

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

Copy to E. H. Bailey, USGS

8/11/52 glw

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

Office of
Executive Officer
DMEA Field Team
Region III

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

August 4, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2454 (Copper-Manganese), Hartwell Prospect, Elko County, Nevada

Reference is made to your subject letter to me, dated June 30, in which you requested information concerning the applicant, Mr. Fred H. Hartwell of Filer, Idaho.

We were unable to obtain the desired information, so on your suggestion, Mr. Bailey of the Survey wrote Mr. A. E. Weissenborn at Spokane, Washington.

A reply with apologies for the delay has now been received from Mr. Weissenborn, which states that his files contain no information on Mr. Hartwell.

H. C. MILLER

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

Copy to E. H. Bailey, USGS

FILE COPY
SURNAME: 700

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

JUN 30 1952

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

Re: Docket No. DMEA-2454
(Copper-Manganese)
Hartwell Prospect
Elko County, Nevada

Dear Mr. Miller:

Since receiving the subject application we have corresponded with Mr. Fred H. Hartwell, in order to obtain sufficient information concerning the property and proposed project to permit us to either deny the application or request a field examination.

For your information, we are enclosing a copy of the letter of June 13, 1952 from the applicant in answer to our letters of April 10, and May 29. It is quite apparent that Mr. Hartwell is unable to furnish sufficient information concerning his property to enable us to evaluate the merits of the application.

We do not request a Field Examination. However, we would appreciate obtaining any information concerning the applicant and his property that might be known by your engineers or might be acquired by them during one of their trips to Elko County, Nevada. If no other source is available, you might request information from Mr. Weissenborn regarding the applicant who lives at Filer, Idaho.

We shall appreciate your comments and recommendation.

Sincerely yours,

6/30

(signed) FRANK E. JOHNSON (JHB)

Chairman, Operating Committee

Inclosure
APPROVED:
J. H. Hedges (JHB)
Member, Bureau of Mines
T. P. Thayer (JHB)
Member, Geological Survey

HFKeller/mb/jem
6/27/52
cc to: Adm. Reading File
Docket
Mr. Ellis
Mr. Keller
Mr. CHJohnson
Mr. Nelson
Region III (1)

C
O
P
Y

Docket No. DMEA 2454

Filer Ida
June 13, 1952

Gentlemen:

I will try to ans. your inquiry. Due to our extreme winter I was unable to get over to my prospect any earlier. Am mailing under separate cover what I think is manganese. I am not an authority on ore.

I put a couple of cans in a spring last fall hoping to find them coated with copper but could not find any trace of them, I tried it before with good results.

On account of my age, health and financial condition I am unable to do the work necessary to get what you need. The tunnel had caved so much I was forced to pick this sample out of the dump. The separate package of sample I hoped would show copper, thanking you for your courteous interest, I will close.

Respectfully

/s/ Fred H. Hartwell

C
O
P
Y

Docket No. DMEA 2454

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June 13, 1952

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Respectfully

(s) Fred H. Hartwell

Docket No. DMEA-2454

Filer Ida

June 13 - 1952

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Fred H Hartwell P.O. Box 1403
Filer Idaho

Sample ore recd. 6/17/52

FILE COPY
SURNAME:

700

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

MAY 28 1952

Mr. Fred H. Hartwell
Box 513
Filer, Idaho

Re: Docket No. DMLA-2454 (Copper & Manganese)
Hartwell Prospect
Elko County, Nevada

Dear Mr. Hartwell:

Reference is made to your above-docketed application dated March 18, 1952, and our letter of April 10, 1952, outlining certain information we requested you to furnish which will enable this Agency to further process your application.

In the event that considerable time will be required to assemble this data, we would appreciate being advised the approximate date you will be able to forward the material.

Sincerely yours,

5/29

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

HFKeller/jem
5/28/52
cc to: Adm. Reading File
Docket
Messrs. CHJohnson-3621
Ned Nelson-4216 GSA
Ellis Keller
Field Team, Reg. III (2)

FILE COPY
DOC NAME:

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

APR 10 1952

Mr. Fred H. Hartwell
Box 513
Filer, Idaho

Re: Docket No. DMEA-2454 (Copper & Manganese)
Hartwell Prospect
Elko County, Nevada

Dear Mr. Hartwell:

The engineers of the Defense Minerals Exploration Administration, have studied your application and supporting information and are of the general opinion that the data that you supplied in your application is insufficient to permit them to judge the merits of your prospect. To enable us to evaluate your project, kindly furnish this agency with additional information such as the following:

1. Map or plan showing location of veins, mine workings, samples with sample widths and any geological structures of importance.

2. Assay certificates indicating the location of the sample and width of the ore sampled.

3. Location inclination and bearing of proposed diamond core drill holes in relation to the present mine workings and vein structure.

4. Description of the vein giving the width, known length, mineralization and character of rock.

5. Any additional information or maps to substantiate your proposed exploration project.

We shall be pleased to continue processing your application on receipt of this additional data.

Sincerely yours,

Signed E.N.
4-10-52

Ernest N. Ellis, Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

HFKeller/jem
4/10/52
cc to: Adm. Reading File
Docket
Messrs. CHJohnson, Rm. 3621
Ned Nelson, Rm. 4216 GS
Ellis
Keller
Field Team, Region III (2)

Sol

gea 4/9/52

IN REPLY REFER TO:

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

April 8, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: IMEA-2454 - Fred H. Hartwell, Filer, Idaho.

Comment

This application is for an unusually small amount. Since it is supported by nothing more than an idea, referral to the field team is not recommended.

N. E. Nelson

Ned E. Nelson
Geologist

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

April 8, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: IMEA-2454 - Fred H. Hartwell, Filer, Idaho.

Comment

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N. E. Nelson

Ned E. Nelson
Geologist

4/2/52 gla

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

April 1, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA 2454 - Fred H. Hartwell, Copper Prospect in Elko County, Nevada

It is not recommended that a field team examination be requested until and unless the applicant furnishes more complete information and justification. He should at least furnish a statement as to the copper showings or other mineralization that leads him to believe a copper deposit may be found; particularly he should furnish sampling data, giving the widths and assay results.

The application is returned herewith.

C. H. Johnson

C. H. Johnson

Attachment

Copy to Mr. Nelson, USGS
C. H. Johnson
Minerals Division
Base Metals Branch
Files

DMEA-2454

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

Office of
Executive Officer
DMEA Field Team
Region III

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

March 25, 1952

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan (Copper-Manganese), Fred H. Hartwell, Box 513, Filer, Idaho.

Attached are three sets of applications, form MF-103, dated March 19, received in this office on March 24. Three sets of the applicant's form MF-100 also are attached.

The fourth copy of each form is being retained in this office for us to use on field examination work if an engineer or geologist is in the vicinity of the applicant's property north of Montello, Nevada.

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

Attachments

Copy to E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAR 31 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2454
Metal or Mineral
Date Received 3-31-52
Amount $
Participation (Government %)

Fred H. Hartwell,
Box 513
Filer, Idaho.

Name and address of applicant

Date March 19th, 1952

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

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

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

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

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

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MAR 31 1952

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By Fred H Hartwell (Signature of authorized official)
Mch 19, 1952 (Date)	Owner (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

ANSWERS TO QUESTIONS FORM MF-103

1. (a) Location of the Mine as approximately 15 miles North of the Delano Mine, or 50 miles North of Montello, Nevada.
   (b) I am the owner.
   (c) A 20 acre quartz filing, in Elko County, Nevada, in the name of Fred H. Hartwell. No liens or encumbrances. No lease

2. (a) Copper and principally manganese.
   (b) Geographical features of the mine consist of granite lime contact, having intrusions of jasper, iron and shale.

3. (a) Propose to have the property core drilled, estimated at $1500.00
   (b) Start by May 15th, estimated to take 15 to 20 days.

4. None

5. No buildings or fixtures on the property.

6. No buildings or fixtures needed other then a tent which will be furnished by owner to complete core drilling.

7. (a) None
   (b) None
   (c) None

8. Only a supervison at salary of $350.00 per month.

9. No estimate of cost of material or supplies at this time.

10. (a) the sum of $1,000.00
    (b) Yes.

11. A tunnel has been driven of about 40 feet in length and assessment work in different amounts has been done and different locations. The purpose of this application is for exploratory work as I am of the opinion that good veins of copper can be located.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2454

Date received 3-31-52

Fred H. Hartwell,
Box 513,
Filer, Idaho.

Name and address of applicant

Date March 18th, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Copper
   (*b*) What are the byproducts, if any? Manganese, lead and silver
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Three Springs Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. none
   (*b*) Linear feet of drifts and crosscuts. none
   (*c*) Linear feet of tunnels or adits. 40 feet
   (*d*) Linear feet of other mine openings (explain briefly). location work, if shaft is run it will require pump
   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. 50 miles north of Montella, Nevada
   (*b*) Mining district. unknown, if any
   (*c*) Township, Section, Range. unknown
   (*d*) County, State. Elko, Nevada
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. no
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAR 31 1952

5. Number of years in production undevelloped by reason of physical disability
   If not in production or operation, estimated date when production will begin About May 15th, 1952
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. H. H. Miller, 30 years of experience, gold, silver and copper
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. There are claims
   (*b*) State briefly the known history and production of adjoining and neighboring properties. nearest is 15 miles
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
   No available explorat tions made, but is on a lime and granite contact.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Fred H. Hartwell	solo owner	none	none	none	none	none	none
	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.)	none				
2. Quantity of product processed (specify unit of measure and type of process)	none				
3. Quantity and grade of product sold or shipped (specify units of measure)	none				

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. Not yet in operation

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. Its a lime granite contact accompanied with shale and carb nate. No geological report as yet.

(*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)	undeveloped				
Indicated (probable)	undeveloped				

(*c*) If placer:

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

(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. Lime granite contact.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount. loose, and fine, no estimate of thickness

(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. good gravel road to shipping point except about 5 miles of dirt road.

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof. None

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. not in operation

17. Equipment and Facilities: none at present.

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. none

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 Fred H Hartwell
(Signature of authorized official)

March 18th, 1952
(Date)

Sole owner
(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

EXPLORATION

Subject: DMEA-2454
Re: Exploration Loan
Three Springs Mine
March 31, 1952

Mr. Fred H. Hartwell
Box 513
Filer, Idaho

My dear Mr. Hartwell:

This will acknowledge receipt of your application dated March 19, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2454 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2454 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Acting Administrative Officer

7862

FORM MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2454
Metal or Mineral
Date Received 3-31-52
Amount $
Participation (Government %)

Fred H. Hartwell,
Box 513
Filer, Idaho.

Name and address of applicant

Date March 19th, 1952

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

DMA Docket Number (if available) .....

INSTRUCTIONS

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

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

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

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

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company) By Fred H Hartwell (Signature of authorized official)

Mch 19 1952 (Date) Owner (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

ANSWERS TO QUESTIONS FORM MF-103

1. (a) Location of the Mine as approximately 15 miles North of the Delano Mine, or 50 miles North of Montello, Nevada.
   (b) I am the owner.
   (c) A 20 acre quartz filing, in Elko County, Nevada, in the name of Fred H. Hartwell. No liens or encumbrances. No lease

2. (a) Copper and principally manganese.
   (b) Geographical features of the mine consist of granite lime contact, having intrusions of jasper, iron and shale.

3. (a) Propose to have the property core drilled, estimated at $1500.00
   (b) Start by May 15th, estimated to take 15 to 20 days.

4. None

5. No buildings or fixtures on the property.

6. No buildings or fixtures needed other then a tent which will be furnished by owner to complete core drilling.

7. (a) None
   (b) None
   (c) None

8. Only a supervison at salary of $350.00 per month.

9. No estimate of cost of material or supplies at this time.

10. (a) the sum of $1,000.00
    (b) Yes.

11. A tunnel has been driven of about 40 feet in length and assessment work in different amounts has been done and different locations. The purpose of this application is for exploratory work as I am of the opinion that good veins of copper can be located.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2454

Date received 3-31-52

Fred H. Hartwell,
Box 513,
Filer, Idaho.

Name and address of applicant

Date March 18th, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Copper
   (*b*) What are the byproducts, if any? Manganese, led and silver
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: Three Springs
   (*a*) Linear feet of shafts. none
   (*b*) Linear feet of drifts and crosscuts. none
   (*c*) Linear feet of tunnels or adits. 40 feet
   (*d*) Linear feet of other mine openings (explain briefly). location work, if shaft is run it will require pump
   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. 50 miles north of Montella, Nevada
   (*b*) Mining district. unknown, if any
   (*c*) Township, Section, Range. unknown
   (*d*) County, State. Elko, Nevada
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. no
   (*b*) Are you operating this property as:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAR 31 1952

5. Number of years in production undevelloped by reason of physical disability
   If not in production or operation, estimated date when production will begin About May 15th, 1952
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. B. H. Miller, 30 years of experience, gold, silver and copper
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. only developement is the one tunnel
   (*b*) State briefly the known history and production of adjoining and neighboring properties. nearest is 15 miles
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
   No available explorat tions made, but is on a lime and granite contact.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Fred H. Hartwell	sole owner	none	none	none	none	none	none
	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.)	none				
2. Quantity of product processed (specify unit of measure and type of process)	none				
3. Quantity and grade of product sold or shipped (specify units of measure)	none				

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. Not yet in operation

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. It's a lime granite contact accompanied with shale and carbonate. No geological report as yet.

(*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)	undeveloped				
Indicated (probable)	undeveloped				

(*c*) If placer:

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

(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. Lime granite contact.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount. loose, and fine, no estimate of thickness

(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. good gravel road to shipping point except about 5 miles of dirt road.

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof. None

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. not in operation

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. none at present.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain. none

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 Fred H Hartwell
(Signature of authorized official)

March 18th, 1952
(Date)

Sole owner
(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 [redacted]3
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
[redacted]ENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2454
Metal or Mineral
Date Received 3-31-52
Amount $
Participation (Government %)

Fred H. Hartwell,
Box 513
Filer, Idaho..

Name and address of applicant

Date March 19th, 1952

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

DMA Docket Number (if available) .....

INSTRUCTIONS

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

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

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

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

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

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

RECEIVED
MAR 31 1952

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By Fred H Hartwell (Signature of authorized official)
Mch 19, 1952 (Date)	Owner (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

1. (a) Location of the Mine as approximately 15 miles North of the Delano Mine, or 50 miles North of Montello, Nevada.
   (b) I am the owner.
   (c) A 20 acre quartz filing, in Elko County, Nevada, in the name of Fred H. Hartwell. No liens or encumbrances. No lease

2. (a) Copper and principally manganese.
   (b) Geographical features of the mine consist of granite lime contact, having intrusions of jasper, iron and shale.

3. (a) Propose to have the property core drilled, estimated at $1500.00
   (b) Start by May 15th, estimated to take 15 to 20 days.

4. None

5. No buildings or fixtures on the property.

6. No buildings or fixtures needed other then a tent which will be furnished by owner to complete core drilling.

7. (a) None
   (b) None
   (c) None

8. Only a supervison at salary of $350.00 per month.

9. No estimate of cost of material or supplies at this time.

10. (a) the sum of $1,000.00
    (b) Yes.

11. A tunnel has been driven of about 40 feet in length and assessment work in different amounts has been done and different locations. The purpose of this application is for exploratory work as I am of the opinion that good veins of copper can be located.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2454

Date received 3-31-52

Fred H. Hartwell,
Box 513,
Filer, Idaho.

Name and address of applicant

Date March 18th, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Copper
   (*b*) What are the byproducts, if any? Manganese, led and silver
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: Three Springs
   (*a*) Linear feet of shafts. none
   (*b*) Linear feet of drifts and crosscuts. none
   (*c*) Linear feet of tunnels or adits. 40 feet
   (*d*) Linear feet of other mine openings (explain briefly). location work, if shaft is run it will require pump
   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. 50 miles north of Montella, Nevada
   (*b*) Mining district. unknown, if any
   (*c*) Township, Section, Range. unknown
   (*d*) County, State. Elko, Nevada
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. no
   (*b*) Are you operating this property as:
   ☒ Owner.
   ☐ Lessee.
   ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1952

5. Number of years in production undevelloped by reason of physical disability
   If not in production or operation, estimated date when production will begin About May 15th, 1952
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. B. H. Miller, 30 years of experience, gold, silver and copper
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. Only developement is the one tunnel
   (*b*) State briefly the known history and production of adjoining and neighboring properties. nearest is 15 miles
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
   No available explorations made, but is on a lime and granite contact.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Fred H. Hartwell	sole owner	none	none	none	none	none	none
	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.)	none				
2. Quantity of product processed (specify unit of measure and type of process)	none				
3. Quantity and grade of product sold or shipped (specify units of measure)	none				

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. Not yet in operation

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. Its a li[illegible] granite contact accompan[illegible] with shale and carbonate. No geological report as yet.

16—63792-1

(*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)	undeveloped				
Indicated (probable)	undeveloped				

(*c*) If placer:

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

(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. Lime granite contact.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount. loose, and fine, no estimate of thickness

(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. good gravel road to shipping point except about 5 miles of dirt road.

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof. None

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. not in operation

17. Equipment and Facilities: none at present.

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. , none

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 Fred H Hartwell
(Signature of authorized official)

March 18th, 1952
(Date)

Sole owner
(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.

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