DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA DMA Docket No. 2325

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
(ONE COPY TO USGS & ONE TO USBM)

To: CODE 700 Rm. 4070-A Date 1-15-52

To: _____ Date _____

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FILE COPY
SURNAME:

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

FEB 4 - 1952

Ellis
Hedges
Lemmon
Johnson

BL

Mr. Frank L. Maher
Metals Limited
Box 117
Socorro, New Mexico

Re: Docket DMA-2325, Copper Hill Canyon Mining District
Socorro County, New Mexico

Dear Mr. Maher:

The Defense Minerals Exploration Administration has reviewed your subject application for aid in an exploration project on your mining claims.

The exploration project, as outlined in this application is very similar, in essential details, to that which you proposed in your application Docket DMA-1271, which application was denied on October 17, 1951 by a letter from the Supply Division of the Defense Minerals Administration.

As you have submitted no additional information in the subject application, that could raise a doubt as to the correctness of denying your application DMA-1271, we regret that we cannot recommend the approval of your new application Docket DMA-2325.

The denial of both applications is based on our belief that no appreciable tonnages of copper, lead or zinc ore would be discovered by the proposed exploration projects.

We thank you for bringing this property to the attention of this agency.

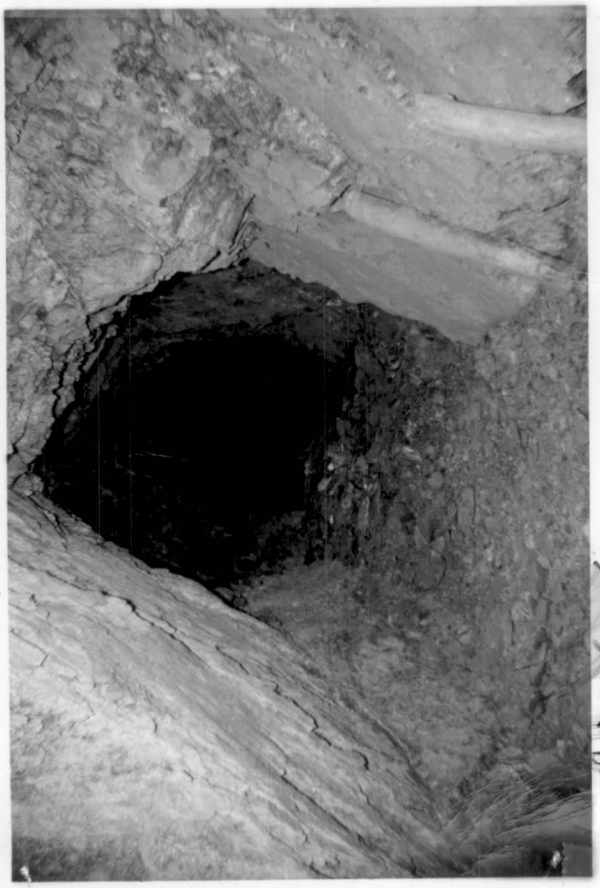
Sincerely yours,

C. O. Mittendorf

2/4/52

Acting Administrator
Defense Minerals Exploration
Administration

HFKeller/jem
1-30-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, CH Rm. 3621
Nelson, Ned Rm. 4216 G.A.
Ellis
Keller
Field Team, Region IV (2)



Dip of Vein

1-24-52

Metals Limited
DMEA-2325
Study with the view of deciding whether a Field Team examination is desirable. If so a more modest program should be considered.

A.L.

Dip of Vein 500 ft above Tunnel

gla 1/18/52

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

January 18, 1952

Memorandum

To: E. W. Ellis, Rare & Miscellaneous Branch, DMEA, Room 4640

From: C. H. Johnson

Subject: Metals Limited (Frank L. Maher, Box 117, Socorro, New Mexico) - DMEA 2325

I have reviewed this application and would recommend either (1) denial, or (2) that a tentative denial be submitted to the field team for comment, together with an explanation therefor. If the latter procedure were followed, the field team could use its own judgment whether to make an examination of the prospect and perhaps submit a revised and perhaps more acceptable proposal, or concur in the denial without making an examination. From the appearance of the application, I believe the applicant has given all the justification for the project that he has and therefore it is doubtful that inquiry would bring forth any further information of value from him.

Applicant bases his project justification to a large extent on information contained in Bulletin 8 of the New Mexico School of Mines, "The Ore Deposits of Socorro County, New Mexico," by S. G. Lasky, published in 1932. From that reference and from the applicant's sketch, it appears that phase 1 of his proposal relates to the deposit described by Lasky under the name of Cuprite or Wheel of Fortune. The following are some extracts from Bulletin 8 on that deposit: "The copper appears as a replacement of the shattered porphyry which has suffered a great deal of alteration along the vein. Its present concentrated form is apparently due to oxidation and secondary enrichment." "The orebody has been almost entirely worked out." "The bottom of the workings at a depth of about 75 feet still shows in places narrow stoping widths of mill ore, mostly copper carbonate and silicate." "The oreshoot seems to have been a pipe-like body about 50 feet long, 10 to 25 feet wide and at least 75 feet deep."

"An adit has been driven along a fault to cut the expected downward extension of the vein at an estimated depth of 450 feet. Swelling and caving ground along the fault near the portal gave so much trouble that the adit was driven only 625 feet, about 250 feet short of where it was thought the Cuprite vein would be cut. The face is reported to be in hard rock."

It may be noted that Lasky takes no personal responsibility for the estimate regarding the distance from the face of the adit to the vein. According to the applicant's own sketch, the face of the adit is still at a distance of about 2,000 feet from the old Cuprite mine working. It seems to me the original project of driving an adit was an unwise one and that the present proposal to diamond drill is equally unwise. If further exploration is justified on the basis of the small rich ore body that was mined out, then I believe the work should be done in the immediate vicinity of that orebody.

Regarding phase 2, if it is correct to identify this proposal with the property described on the map as the north extension of the Old Soldier vein, then this has little to recommend it. According to Lasky, the principal workings on the Old Soldier were on the south side of the canyon and consisted of approximately a thousand feet of shafts, drifts and cross-cuts, largely caved and inaccessible at the time of his examination. To quote, "the Old Soldier vein crosses the canyon about a quarter of a mile below Riviere's cabin. It strikes northwest and dips deeply to the northeast. Mineralization occurs in a sheeted zone about 25 feet wide in andesite. Calcite, the chief gangue mineral, which is black with manganese oxides, has completely replaced the original rock in places. A small amount of galena occurs with the calcite." There is no justification in the published account for further prospecting the vein on the north side of the canyon, although it is stated that some prospecting had been done on that side. Applicant offers as his reason for this proposal only an assay of a single sample, of undescribed nature, taken in 1937.

Regarding phase 3, which consists of some diamond drilling in Sections 6 and 31 as shown on applicant's map, it does not appear that this can be identified with the Iron Cap deposit described in Lasky's report, which is on the north side of the canyon at an elevation of 9,650 feet. Lasky describes that deposit as showing traces of pyrite, chalcocite, covellite and malachite.

None of the work is justified by information available here. If you should see fit to refer the proposal to the field team for an examination, or if the field team makes an examination on its own initiative, there are several practical questions to be considered: Is the applicant's equipment, as listed, of any appreciable use in the proposed work? If diamond drilling is to be done, why not contract it? The same applies to assaying. Who is the proposed supervisor? Applicant appears to have had little experience in such work and it should be made clear that a thoroughly competent person would have to manage the project.

C. H. Johnson

C. H. Johnson

Copy to: Mr. Nelson, U.S.G.S.
Base Metals Branch
Minerals Division
Files

gla 1/18/52

IN REPLY REFER TO:

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

January 17, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Mr. N. E. Nelson

Subject: DMEA-2325, Metals Ltd., Frank L. Maher
Socorro, New Mexico

Summary

Judging by the Lasky report, these prospects are not such as to warrant the work as proposed. The field team may find them worth some attention, but for small orebodies shorter and "closer in" drill holes are indicated, then the deep work, if justified.

Comment

Writing of the Mill Canyon prospects in New Mexico School of Mines, Bulletin 8, 1952, S. J. Lasky says: "At the Cuprite or Wheel of Fortune mine a good body of copper ore has been mined near the surface. . . the orebody has been almost entirely worked out. It contained a notable amount of covellite which is generally present in only insignificant quantities in the copper deposits of New Mexico. . . The bottom of the workings, at a depth of about 75 feet, still shows in places narrow stoping widths of mill ore, mostly copper carbonate and silicate. . . The ore shoot seems to be a pipe-like body about 50 feet long, 10 to 25 feet wide, and at least 75 feet deep. . . An adit has been driven along a fault to cut the expected downward extension of the vein at an estimated depth of 450 feet. Swelling and caving ground along the fault near the portal gave so much trouble that the adit was driven only 625 feet about 250 feet short of where it was thought the Cuprite vein would be cut. . . Before 1919 about 300 tons of ore are said to have been shipped to smelters at Douglas, Arizona, and El Paso, Texas, which returned between $700 and $900 a car. The ore contained 6 to 9 per cent copper and $6.00 in gold per ton."

Of the Old Soldier vein, Lasky says: "Mineralization occurs in a sheeted zone about 25 feet wide in andesite. Calcite, the chief gangue mineral, which is black with manganese oxides, has completely replaced the original rock in places. A small amount of galena occurs with the calcite. . . In the shaft a few feet below the surface is a small stope about 20 feet in diameter from which a little ore was

extracted. . . The vein is said to be cut off in the shaft by a westward dipping fault at a depth of 225 feet."

Of the vein shown on the east side of Mill Canyon, shown on the map submitted with the application, Lasky makes no comment.

N. E. Nelson

Ned E. Nelson
Geologist

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

January 17, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Mr. N. E. Nelson

Subject: DMEA-2325, Metals Ltd., Frank L. Maher
Socorro, New Mexico

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N. E. Nelson

Ned E. Nelson
Geologist

EXPLORATION

Subject: DMEA-2325
Re: Exploration Loan
HM Metals Tunnelsite & Mining Claims

Mr. Frank L. Maher, Owner & Operator
Metals Limited
Box 117
Socorro, New Mexico

My dear Mr. Maher:

This will acknowledge receipt of your application dated January 6, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2325 and referred to the Rare & Miscellaneous Metals Division.

Kindly refer to DMEA-2325 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-2325
Metal or Mineral Copper
Date Received 1-18-52
Amount $ 29,943 + (1526)
Participation (Government %) 80 %

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

METALS LIMITED
Frank L. Maher
Box # 117
Socorro, New Mexico

RECEIVED
JAN 1 1952

Name and address of applicant

Date January 6, 1952

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

DMA Docket Number (if available) DMA 1393

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.

METALS LIMITED
(Name of company)

By Frank L Maher
(Signature of authorized official)

January 6, 1952
(Date)

Owner & Operator
(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

Form 103 as attached.

Frank L. Usher
DRAFTSMAN

QUESTION # 1

(a)

The property that will be involved in the exploration is that portion of Hill Canyon Mining District of Socorro County, New Mexico and formerly known as the Wheel of Fortune Tunnelsite, Wheel of Fortune Mine and the Iron Cap Vein. All being listed in the New Mexico School of Mines Bulletin # 6 on Districts of Socorro County New Mexico by Samuel G. Lasky on Pages # 43, 44 & 46.

The present name of the property is the H.N. Hotels Tunnelsite and Mining Claims. The area has not been in production but we have been pilot testing veins of the area for our own knowledge to determine whether or not the property warranted exploration or development.

(b)

We are the owners of the properties under consideration for exploration. Under Exhibit will be found Release to the United States Government subordinating all claims to those of the United States Government in the event that an exploration lease is granted for the property.

(c)

Beginning at a point identified by a United States General Land Office Marker bearing the date of 1940 and identifying the common meeting point of Section 30 and Section 31 T.3 S. R.9 with Section 36 and Section 25 of T.3S R.8W N.M.P.M. Thence south along the Range Line between Range 9 & 4 a distance of 1500 feet; Thence West 1500 feet to the West line of the H.N. Hotels claims; Thence North along the H.N. Hotels West line a distance of 3000 feet, to an Iron Pipe painted aluminum, Thence East 3000 feet along the north boundary of the H.N. Hotels Group to an Iron Pipe painted aluminum, then south 3000 feet along the east line of the H.N. Hotels claims to another Iron pipe painted aluminum; Thence West 1500 feet to the Range Line between Range 9 & 4 .

The entire area is well marked every 600 feet along all lines.

QUESTION #2

(a)

Principally copper.

(b)

Attached hereto are picture of the vein structure on the surface 500 feet above the proposed exploration work. A general description of the area may be found in Bulletin # 6 as mentioned above.

(Pictures need not be returned.)

Form 103 as attached.

Frank L. Maher
DMA1393

QUESTION # 3.

(a)

It is estimated that the total cost of this exploration project will be $29,943.00. To this sum is added $1,500.00 to be on the safe side in all calculations.

The proposed work of exploration consists of three phases each located at a different point on the property.

PHASE #1 will consist of cleaning out and reclaiming a tunnel that is 650 feet long in the direction of the expected point of contact with a vein that is in evidence 500 feet above and on the other side of mountain. On completion of this portion of the work it is planned to set up a diamond drilling station and place three exploratory holes to locate the vein. These holes are to be approximately, 600 feet each.

General knowledge which I have and also which mentioned in Bulletin #0 of the Socorro School of Mines publication ORE DEPOSITS OF SOCORRO COUNTY, NEW MEXICO by Samuel G. Lasky is that the vein should be reached approximately 250 feet from the point of present work.

PHASE #2 will consist of placing three diamond drill holes of Approximately 500 feet each to explore a copper mineralized outcrop at a point where I had an assay that showed 8% copper in 1937. This assay was made by the Colorado Assayers of Denver Colo. but I have lost the report since that time and have not had any check assays recently.

PHASE #3 is to consist of placing three holes at a point in the canyon where there is a vein structure of over 100 ft. wide and of a dept of app. 700 feet each.

(b)

Full scale exploratory drilling will be under way within 30 days after approval. Drilling can begin in phase # 3 while the preparatory operations are carried on in the section of PHASE #1.

It is believed that a total of 5000 feet of drilling will show up a considerable quantity of ore and that thi amount of work will be all that is necessary to give the entire area a start.

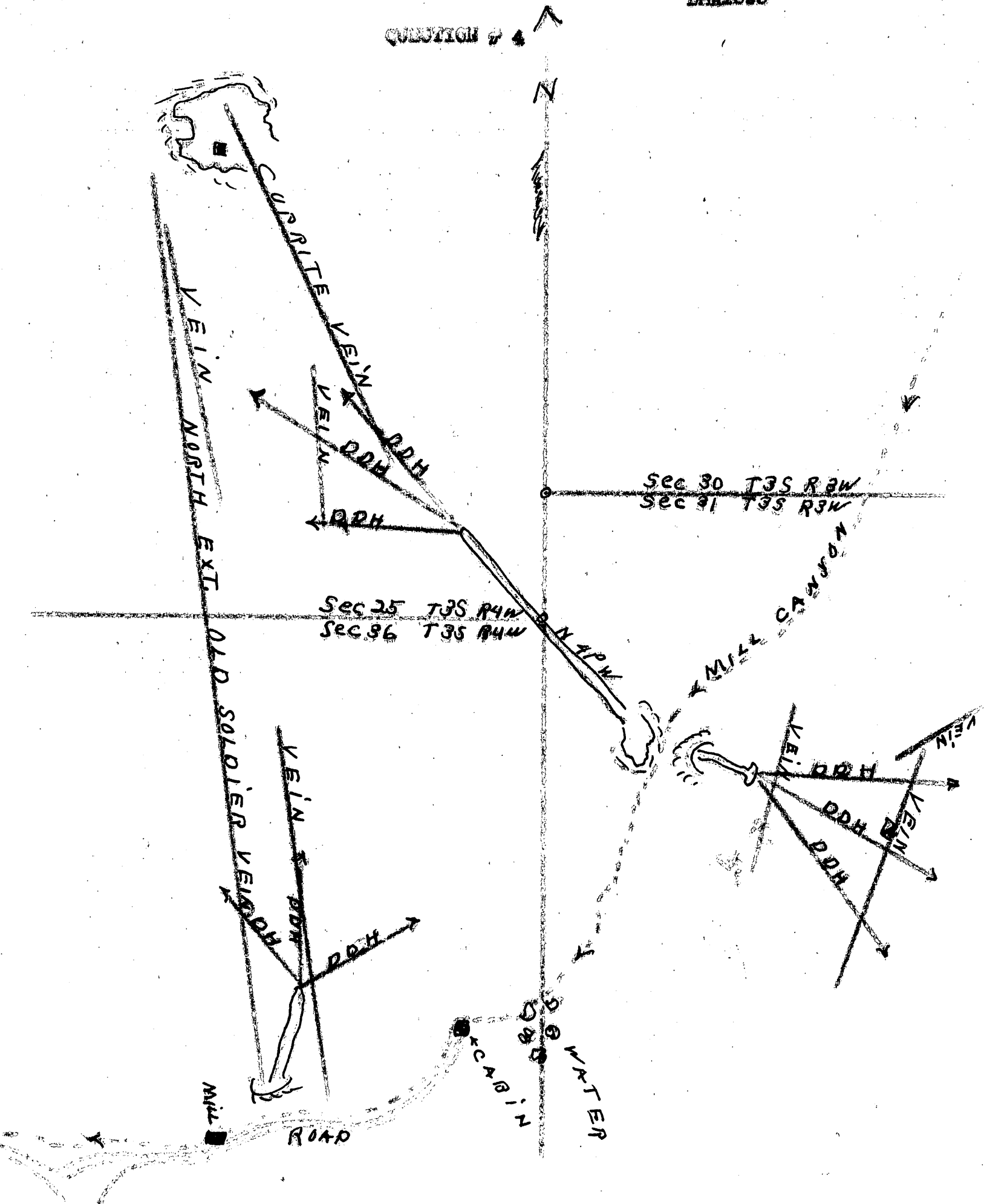
It is to a certainty that the entire project will not take one years time

The Applicant would like to reserve the full time available for the completion of the project and in the event that extremely economical operation leaves a reserve of funds to be permited to add to the exploration program by a phase #4 section on the surface 500 feet above the present tunnel as mentioned.

Form 105 as attach

Frank L. Maher
DMA1393

QUESTION # 4



Form MF 103 (as attached.) Frank L. Maher

QUESTION # 5

ASSAY LABORATORY (see picture) complete for wet assaying.

AIR COMPRESSOR 105 Jaeger practically new.
THOR JACKHAMMER heavy duty sinker type. Hose.
Steel, bits, hose, couplings.
TWO DMK. JAEGER HOIST, 3500 lb capacty Practically new.
500 feet steel cable 3/4" Heavy duty sheaves. 50 ft.1/2" chain,hooks,
equipped with 25 hp. 4 cylinder Wisconsin gasoline engine, air cooled.
Rock Crusher. 7x9 , Hercules Engine 12, HP.
Ball Mill 15 T New Wisconsin 13 HP
Flotation Cell 25 T "
Concentrating Table " Briggs Stratton 3 hp.
Various engines,pumps,tools,pipe,pipe fittings,
Mine cars 2, rails App 300 ft.
1½ Ton truck, 4-wheel drive (plenty of tires part new)
Jeep. New tires (heavy duty mountain service.
Engineering supplies.
Mining Supplies, battery box,galvanometer,electric caps, etc.
1 mule.

Rehabilitation cost 0.00

Form 103 as attach[illegible]

[illegible]nk L. Maher
DMA1393

QUESTION # 6.

1 18 x 14 frame construction building to be used for a bunkhouse.

This will cost app $286.00 and will be used for persons employed on the exploration project.

Form 103 as attached

Frank L. Moher
DMA 1393

QUESTION # 7.

(a) None.

(b) 1 3 Cu.Yd. Dump body for present owned truck $1,200./
1 CP #55 Diamond Drill pneumatic operated 5,000./
complete with rods accessories & bits for 600 ft. hole.
600' 2" black iron pipe either new or used. 480./
300' Mine rail at 12" lb. used in Magdalena, 120./

)c) All items which we have including laboratory and assay equipt.
all tools whether expendable or not.
All machinery mining,milling,or other.
All engineering equipt.
Transportation equipment

All items will be rented to the project in a lump sum of $10.00 per day rental or a total maximum of $300.00 per month.

Total value of all items available for the project is $13,700.//

As it is estimated that the entire project will be finished within one years time the rental is set in the amount of $3,600./

Form 106 as attached

Frank L. Maher
DMA1393

QUESTION # 8

1 Supervisor who is a mining engineer & geologist @$350.00 per month the person to be assayer also. Total for project $4,200./

2 Employees to act as combination miners, muckers, timbermen, drill operators and general all-round skilled operators, rate $2.00 per hour each. Total for the project of these is estimated at max. 8,000./

1 Outside laborer to act also as equipment caretaker & part time operator and general helper on anything as needed @ $1.50 per hour, with an over all estimated wage for the entire project of $3,000./

Form 103 as attached

Frank L. Maher
DMA 1398

QUESTION # 9.

Accounting for the entire project	$850./
Fuel, oil, operating supplies	3,600./
Assaying, engineering, etc supplies	468./
Maintenance parts during project.	400./

Form 103 as attached

Frank L. Maher
DMA 1398.

QUESTION # 10

(a) A total value of $15,500.//

(b) Yes.

Form IF 103 Frank L. Maher

QUESTION # 11

GENERAL SUMMARY OF PROJECT by Diamond Drilling.

Total footage to be drilled	6,000 ft.
Number of holes	9
Number of locations of drilling	3
Total approximated cost of project	$29.943.//

GENERAL BREAKDOWN OF COSTS.

Preparatory Labor(Removing debris, timbering,track,etc)	$ 1,318.//
" Supplies,(Fuel,oil,bits,explosives,misc.)	250.//
" Equipment New, Dump body for truck	1,500.//
" Pipe lines & track	600.//
" TOTAL	3,668.//

DRILLING EXPLORATIONS.

New Equipment. (Drill & accessories & bits.)	5,000.//
Assaying, Sampling,etc. App. $.70¢ per foot 6000 ft.	3,560.//
Supervision, Engineering,Geological & Mapping	3,680.//
Labor all classes	9,638.//
Fuel, operating supplies, Bits,Parts,Machinery rentals	5,607.//
Accounting	250.00
TOTAL approximated drilling costs	$26,443.//
Amount in access for possible contingencies.	1,500.//
Balance(Total approximated project cost.)	$29,943.//

The property for exploration project is one that has not had any kind of a chance with modern mining methods,exploration methods or transportation facilities. It is one that has had all of its work done with the hand steel & hammer, its transportation consisted of horses and burros. Its hoisting equipment consisted of a horse whim as evidenced by the attached picture (A Davis Whim).

The reason that the tunnel was never completed by the former owner, was that it was his last project to to substantiate his belief that there was a large body of ore at the point he was heading for.

He had spent over forty continuous years of his life gophering around the hill because he did not approve of or believe in the opinions of geologists. He would have been trapped in this tunnel except that he had come out in the evening to find out the time. He was driving the tunnel alone in its latter stages and at the advice of a geologist.

When he went back and found it had caved, age,coupled with a final sense of futility caused him to abandon the entire mining operations as use the place only as his home. He died in the Miners Home at Raton, New Mexico.

I state these things merely as an explanation of the reason that the tunnel was not completed. I have been very fortunate to have been in a position to learn the entire history of the area,1870 to the present.

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-2325
Metal or Mineral Copper
Date Received 1-15-52
Amount $ 29,943 + (1,500)
Participation (Government %) 50 %

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 15 1952

METALS LIMITED
Frank L. Maher
Box 117
Socorro, N.M.

Name and address of applicant

RECEIVED
JAN 4 1952

Date January 6, 1952

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

DMA Docket Number (if available) DMA1393

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.

METALS LIMITED
(Name of company)

By Frank L Maher
(Signature of authorized official)

January 6, 1952
(Date)

Owner & Operator
(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

Form 103 as attached.

Frank L. Maher
DMA1393

QUESTION # 1

(a)
The property that will be involved in the exploration is that portion of Mill Canyon Mining District of Socorro County, New Mexico and formerly known as the Wheel of Fortune Tunnelsite, Wheel of Fortune Mine and the Iron Cap Vein. All being listed in the New Mexico School of Mines Bulletin # 8 ORE DEPOSITS OF SOCORRO COUNTY NEW MEXICO By Samual G. Lasky on Pages # 44, 45 & 46.

The present name of the property is the HM Metals Tunnelsite and Mining Claims. The area has not been in production but we have been pilot testing veins of the area for our own knowledge to determine whether or not the property warranted exploration or development.

(b)
We are the owners of the properties under consideration for exploration. Under DMA1393 will be found releases to the United State s Government subordinating all claims to those of the United States Government in the event that an exploration loan is granted for the property.

(c)
Beginning at a point identified by a United States General Land Office Marker bearing the date of 1940 and identifying the common meeting point of Section 30 and Section 31 T.3 S. R3W with Section 36 and Section 25 of T3S R4W NMPM. Thence south along the Range Line between Range 3 & 4 a distance of 1500 feet;Thence West 1500 feet to the West line of the H.M.Metals claims;Thence North along the H.M. Metals west line a distance of 3000 feet, to an ieon pipe painted aluminum, Thence East 3000 feet along the north boundry of the HM Metals Group to an iron pipe painted aluminum, then south 3000 feet along the east line of the HM Metals claims to another iron pipe painted aluminum;Thence west 1500 feet to the Range Line between Range 3 & 4 .

The entire area is well marked every 600 feet along all lines.

QUESTION #2

(a)
Principally copper.

(b)
Attached hereto are picture of the vein structure on the surface 500 feet above the proposed exploration work. A general discription of the area may be found in Bulletin #8 as mentioned above.

(Pictures need not be returned.)

Picture #1

Ore Body Behind Mt.

Elev. 500 ft

Picture #2

Tunnel entrance

Picture #2 cont'd

Exposed ore Body on Surface

Form 103 as attached.

Frank L. Maher
DMA1393

QUESTION # 3.

(a)

It is estimated that the total cost of this exploration project will be $29,943.00. To this sum is added $1,500.00 to be on the safe side in all calculations.

The proposed work of exploration consists of three phases each located at a different point on the property.

PHASE #1 will consist of cleaning out and reclaiming a tunnel that is 650 feet long in the direction of the expected point of contact with a vein that is in evidence 500 feet above and on the other side of mountain. On completion of this portion of the work it is planned to set up a diamond drilling station and place three exploratory holes to locate the vein. These holes are to be approximately, 600 feet each.

General knowledge which I have and also which mentioned in Bulletin #8 of the Socorro School of Mines publication ORE DEPOSITS OF SOCORRO COUNTY, NEW MEXICO by Samuel G. Lasky is that the vein should be reached approximately 250 feet from the point of present work.

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PHASE #3 is to consist of placing three holes at a point in the canyon where there is a vein structure of over 100 ft. wide and of a dept of app. 700 feet each.

(b)

Full scale exploratory drilling will be under way within 30 days after approval. Drilling can begin in phase # 3 while the preparatory operations are carried on in the section of PHASE #1.

It is believed that a total of 5000 feet of drilling will show up a considerable quantity of ore and that thi amount of work will be all that is necessary to give the entire area a start.

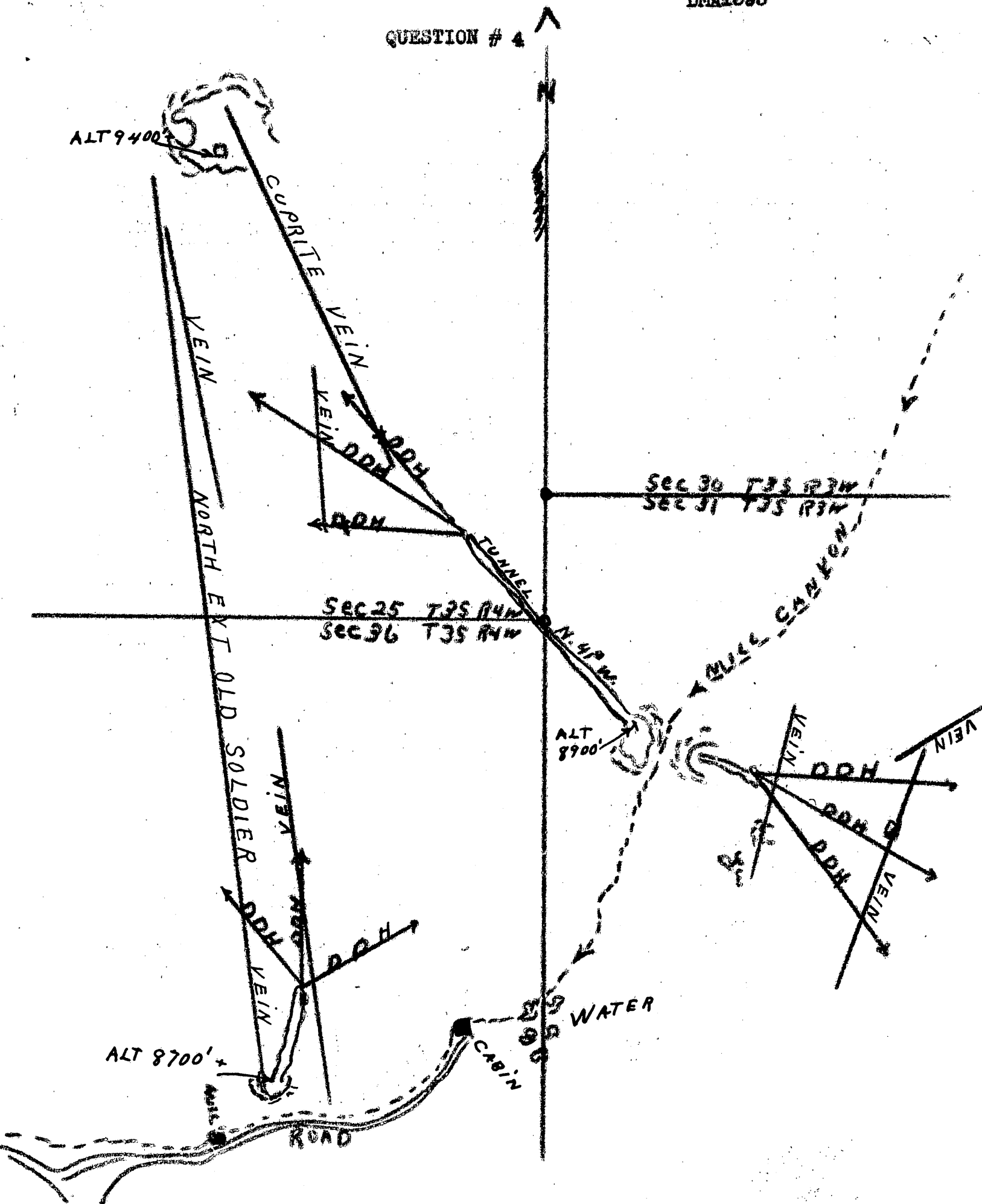
It is to a certainty that the entire project will not take one years time

The Applicant would like to reserve the full time available for the completion of the project and in the event that extremely economical operation leaves a reserve of funds to be permited to add to the exploration program by a phase #4 section on the surface 500 feet above the present tunnel as mentioned.

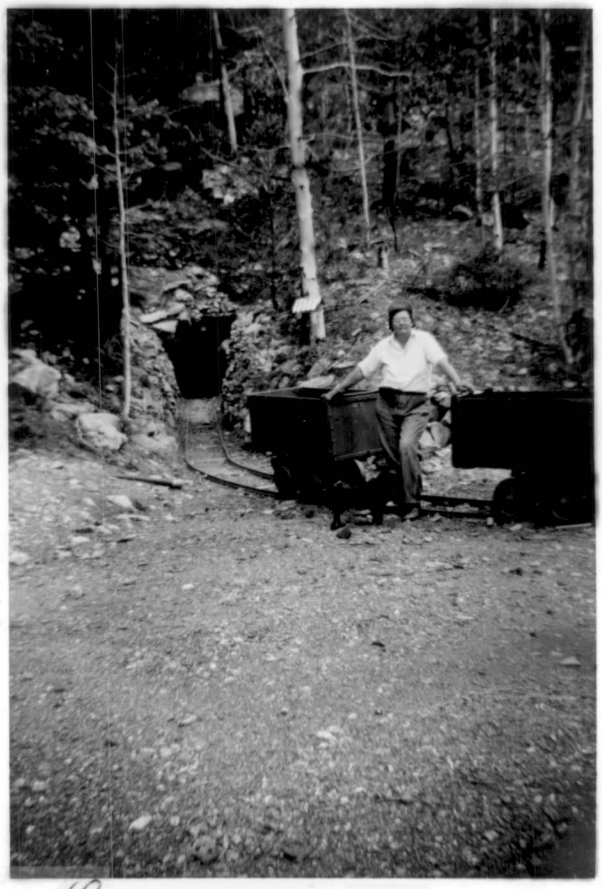
Form 103 as attached

Frank L. Maher
DMA1393

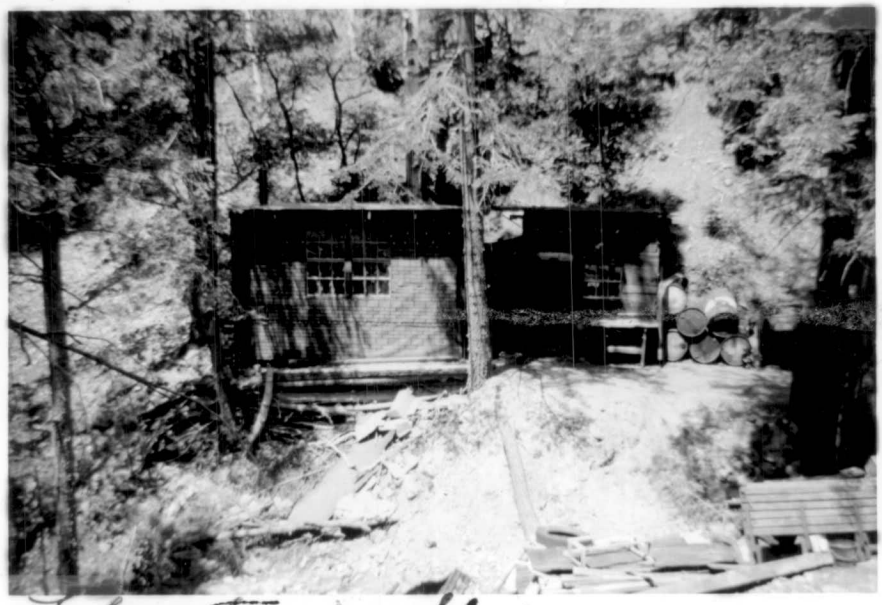
QUESTION # 4



Water Supply



Ore cars



Laboratory + Shops

Mill + Crusher

Interior of Assay Lab.

Compressor

Mill used for Pilot Testing

Form MF 103 (as a_ached.) Frank L. Maher

QUESTION # 5

ASSAY LABORATORY (see picture) complete for wet assaying.

AIR COMPRESSOR 105 Jaeger practically new.
THOR JACKHAMMER heavy duty sinker type. New.
Steel, bits, hose, couplings.
TWO DRUM JAEGER HOIST, 3500 lb capacty Practically new.
500 feet steel cable 3/4" Heavy duty sheaves. 50 ft.1/2" chain.hooks, equipped with 25 hp. 4 cylinder Wisconsin gasoline engine, air cooled.
Rock Crusher. 7x9 , Hercules Engine 12, HP.
Ball Mill 15 T New Wisconsin 13 HP
Flotation Cell 25 T "
Concentrating Table " Briggs Stratton 3 hp.
Various engines,pumps,tools,pipe,pipe fittings,
Mine cars 2, rails App 300 ft.
1½ Ton truck, 4-wheel drive (plenty of tires part new)
Jeep. New tires (heavy duty mountain service.
Engineering supplies.
Mining Supplies, battery box,galvanometer,electric caps, etc.
1 mule.

Rehabilitation cost 0.00

Form 103 as attach_d

Frank L. Maher
DMA1393

QUESTION # 6.

1 12 x 14 frame construction buolding to be used for a bunkhouse.

This will cost app $225.00 and will be used for persons employed on the exploration project.

Form 103 as attached

Frank L. Maher
DMA 1393

QUESTION # 7,

(a) None.

(b)

1	3 Cu.Yd. Dump body for present owned truck	$1,200./
1	CP #55 Diamond Drill pneumatic operated complete with rods accessories & bits for 800 ft. hole.	5,000./
600'	2" black iron pipe either new or used.	480./
300'	Mine rail at 12" lb. used in Magdalena,	120./

)c) All items which we have including laboratory and assay equipt.
all tools whether expendable or not.
All machinery mining,milling,or other.
All engineering equipt.
Transportation equipment

All items will be rented to the project in a lump sum of $10,00 per day rental or a total maximum of $300.00 per month.

Total value of all items available for the project is $12,700.//

As it is estimated that the entire project will be finished within one years time the rental is set in the amount of $3,600./

Form 103 as attached

Frank L. Maher
DMA1393

QUESTION # 8

1 Supervisor who is a mining engineer & geologist @$350.00 per month the person to be assayer also. Total for project $4,200./

2 Employees to act as combination miners, muckers, timbermen, drill operators and general all-round skilled operators. rate $2.00 per hour each. Total for the project of these is estimated at max. 8,000./

1 Outside laborer to act also as equipment caretaker & part time operator and general helper on anything as needed @ $1.50 per hour, with an over all estimated wage for the entire project of $3,000./

Form 103 as attached

Frank L. Maher
DMA 1393

QUESTION # 9.

Accounting for the entire project	$250./
Fuel, oil, operating supplies	3,000./
Assaying, engineering, etc supplies	468./
Maintenance parts during project.	400./

Form 103 as attached

Frank L. Maher
DMA 1393.

QUESTION # 10

(a) A total value of $15,500.//

(b) Yes.

Form MF 103 Frank L. Maher

QUESTION # 11

GENERAL SUMMARY OF PROJECT by Diamond Drilling.

Total footage to be drilled	5,000 ft.
Number of holes	9
Number of locations of drilling	3
Total approximated cost of project	$29.943.//

GENERAL BREAKDOWN OF COSTS.

Preparatory	Labor(Removing debris, timbering,track,etc)	$ 1,318.//
"	Supplies,(Fuel,oil,bits,explosives,misc.)	280.//
"	Equipment New. Dump body for truck	1,200.//
"	Pipe lines & track	600.//
"	TOTAL	3,398.//

DRILLING EXPLORATIONS.

New Equipment. (Drill & accessories & bits.)	5,000//
Assaying, Sampling,etc. App. .70¢ per foot 5000 ft.	3,500.//
Supervision, Engineering,Geological & Mapping	3,850.//
Labor all classes	9,838.//
Fuel, operating supplies, Bits,Parts,Machinery rentals	5,607.//
Accounting	250.00
TOTAL approximated drilling costs	$31,443.//
Amount in access for possible contingencies.	1,500.//
Balance(Total approximated project cost.)	$29,943.//

The property for exploration project is one that has not had any kind of a chance with modern mining methods,exploration methods or transportation facilities. It is one that has had all of its work done with the hand steel & hammer, its transportation consisted of horses and burros. Its hoisting equipment consisted of a horse whim as evidenced by the attached picture (A Davis Whim).

The reason that the tunnel was never completed by the former owner, was that it was his last project to to substantiate his belief that there was a large body of ore at the point he was heading for.

He had spent over forty continuous years of his life gophering around the hill because he did not approve of or believe in the opinions of geologists. He would have been trapped in this tunnel except that he had come out in the evening to find out the time. He was driving the tunnel alone in its latter stages and at the advice of a geologist.

When he went back and found it had caved, age,coupled with a final senge of futility caused him to abandon the entire mining operations as use the place only as his home. He died in the Miners Home at Raton, New Mexico.

I state these things merely as an explanation of the reason that the tunnel was not completed. I have been very fortunate to have been in a position to learn the entire history of the area,1870 to the present.

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-2325
Metal or Mineral Copper
Date Received 1-15-52
Amount $ 29,943
Participation (Government %) 50%

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 15 1952

METALS LIMITED
Frank L. Maher
Socorro, N.M.
P.O.Box # 117

RECEIVED
JAN 1 1952

Name and address of applicant

Date January 6, 1952

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

DMA Docket Number (if available) DMA 1393

INSTRUCTIONS

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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. Sec.25,36. T3S R4W. & Sec 30,31.T3S. R3W. NMPM

   (*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. yes.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.
   as mentioned above, on H.M.Tunnelsite.

   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.

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

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    (*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)?

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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.

Metals Limited
(Name of company)

By Frank L. Mahu
(Signature of authorized official)

Owner & Operator
(Title)

January 6, 1952
(Date)

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

Form 103 as attached

Frank L. Maher
DMA1393

QUESTION # 1

(a)
The property that will be involved in the exploration is that portion of Mill Canyon Mining District of Socorro County, New Mexico and formerly known as the Wheel of Fortune Tunnelsite, Wheel of Fortune Mine and the Iron Cap Vein. All being listed in the New Mexico School of Mines Bulletin # 8 ORE DEPOSITS OF SOCORRO COUNTY NEW MEXICO By Samual G. Lasky on Pages # 44, 45 & 46.

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QUESTION #2

(a)
Principally copper.

(b)
Attached hereto are picture of the vein structure on the surface 500 feet above the proposed exploration work. A general discription of the area may be found in Bulletin # 8 as mentioned above.

(Pictures need not be returned.)

Form 103 as attached.

Frank L. Maher
DMA1393

QUESTION # 3.

(a)

It is estimated that the total cost of this exploration project will be $29,943.00. To this sum is added $1,500.00 to be on the safe side in all calculations.

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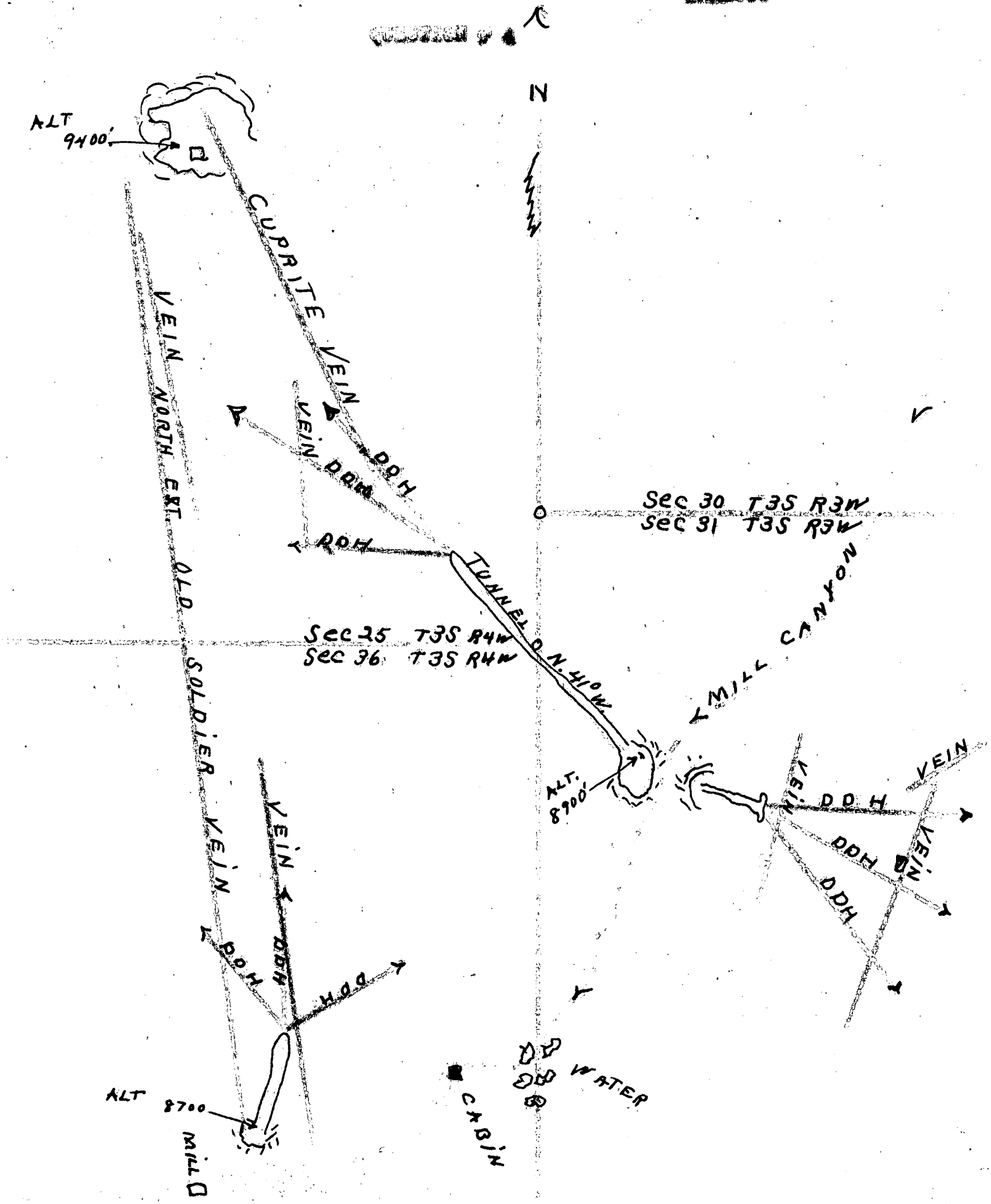
It is to a certainty that the entire project will not take one years time

The Applicant would like to reserve the full time available for the completion of the project and in the event that extremely economical operation leaves a reserve of funds to be permited to add to the exploration program by a phase #4 section on the surface 500 feet above the present tunnel as mentioned.

Form 103 as attached

Frank L. Baker
Dallas



Form MF 103 (as attac[illegible]l.) [illegible]rank L. Maher

QUESTION # 5

ASSAY LABORATORY (see picture) complete for wet assaying.

AIR COMPRESSOR 105 Jaeger practically new.
THOR JACKHAMMER heavy duty sinker type. New.
Steel, bits, hose, couplings.
TWO DRUM JAEGER HOIST, 3500 lb capacty Practically new.
500 feet steel cable 3/4" Heavy duty sheaves. 50 ft.1/2" chain.hooks,
equipped with 25 hp. 4 cylinder Wisconsin gasoline engine, air cooled.
Rock Crusher. 7x9 , Hercules Engine 12, HP.
Ball Mill 15 T New Wisconsin 13 HP
Flotation Cell 25 T "
Concentrating Table " Briggs Stratton 3 hp.
Various engines,pumps,tools,pipe,pipe fittings,
Mine cars 2, rails App 300 ft.
1½ Ton truck, 4-wheel drive (plenty of tires part new)
Jeep. New tires (heavy duty mountain service.
Engineering supplies.
Mining Supplies, battery box,galvanometer,electric caps, etc.
1 mule.

Rehabilitation cost 0.00

Form 103 as attached

Fra[illegible] L. Maher
DMA1393

QUESTION # 6.

1 12 x 14 frame construction building to be used for a bunkhouse.

This will cost app $225.00 and will be used for persons employed on the exploration project.

Form 103 as attached

Frank L. Maher
DMA 1393

QUESTION # 7.

(a) None.

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1	3 Cu.Yd. Dump body for present owned truck	$1,200./
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600'	2" black iron pipe either new or used.	480./
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DMA 1393

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Frank L. Maher
DMA 1393.

QUESTION # 10

(a) A total value of $15,500.//

(b) Yes.

Form MF 103 Frank L. Maher

QUESTION # 11

GENERAL SUMMARY OF PROJECT by Diamond Drilling.

Total footage to be drilled	5,000 ft.
Number of holes	9
Number of locations of drilling	3
Total approximated cost of project	$29,943.//

GENERAL BREAKDOWN OF COSTS.

Preparatory Labor(Removing debris, timbering,track,etc)	$ 1,318.//
" Supplies,(Fuel,oil,bits,explosives,misc.)	280.//
" Equipment New. Dump body for truck	1,200.//
" Pipe lines & track	600.//
" TOTAL	3,398.//

DRILLING EXPLORATIONS.

New Equipment. (Drill & accessories & bits.)	5,000//
Assaying, Sampling,etc. App. .70¢ per foot 5000 ft.	3,500.//
Supervision, Engineering,Geological & Mapping	3,850.//
Labor all classes	9,838.//
Fuel, operating supplies, Bits,Parts,Machinery rentals	5,607.//
Accounting	250.00
TOTAL approximated drilling costs	$31,443.//
Amount in access for possible contingencies.	1,500.//
Balance(Total approximated project cost.)	$29,943.//

The property for exploration project is one that has not had any kind of a chance with modern mining methods,exploration methods or transportation facilities. It is one that has had all of its work done with the hand steel & hammer, its transportation consisted of horses and burros. Its hoisting equipment consisted of a horse whim as evidenced by the attached picture (A Davis Whim).

The reason that the tunnel was never completed by the former owner, was that it was his last project to to substantiate his belief that there was a large body of ore at the point he was heading for.

He had spent over forty continuous years of his life gophering around the hill because he did not approve of or believe in the opinions of geologists. He would have been trapped in this tunnel except that he had come out in the evening to find out the time. He was driving the tunnel alone in its latter stages and at the advice of a geologist.

When he went back and found it had caved, age,coupled with a final senge of futility caused him to abandon the entire mining operations as use the place only as his home. He died in the Miners Home at Raton, New Mexico.

I state these things merely as an explanation of the reason that the tunnel was not completed. I have been very fortunate to have been in a position to learn the entire history of the area,1870 to the present.