DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2040

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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 LOAN

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
CODE 310

To:	Copper Br.	Date	9-5-51
To:	~~Mailbox & Files~~	Date	~~3-18-52~~
(1) To:	Red Nelson 4216 GSA	Date	3-17-52
(2) To:	D.M. Lemmon 5216 GSA	Date	?
(3) To:	R.W. Seehan 3621	Date	3/21/52
(4) To:	C.H. Johnson 3621	Date	?
(5) To:	Rutledge 4640	Date	4/23/52
To:	C.O. Mittendorf	Date	4/24/52
To:	Mails & Files	Date	
To:	Operating Com	Date	4-25-52
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

aec

DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME:

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

APR 28 1952

Mr. Arnold H. Johnson
55 North Matlock Street
Mesa, Arizona

Re: Docket No. MA-204P (Molybdenum-Copper)
Rare Metals Mine
Pinal County, Arizona

Dear Mr. Johnson:

Reference is made to your application for Government aid on the captioned exploration project in the amount of $24,000.

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

A careful study of your application and data available to this agency, reveals that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, I regret to advise that your application for exploration aid is denied.

If additional work on your property reveals information which makes this project feasible, an application may be submitted for consideration.

Sincerely yours,

C. C. Mitchendoss (fw) J.H. 4-28-52

Acting Administrator
Defense Minerals Exploration
Administration

FLKnouse/jem
4/24/52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GSA
Ellis Knouse
Field Team, Region IV (2)

4/22/52 gla

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

April 18, 1952

Memorandum

To: E. W. Ellis, DMEA

From: R. W. Geehan, Bureau of Mines

Subject: DMA-2040, Rare Metals Group, Kelvin District, Pinal County, Arizona, Arnold H. Johnson - Copper and molybdenum

After a review of the docket and the USGS report, I concur in the proposal to deny the application for both molybdenum and copper.

Robert W. Geehan

Robert W. Geehan

Attachment

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4/22/52 gla

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

March 21, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMA-2040 Rare Metals Group, Copper, Arnold H. Johnson, Pinal County, Arizona

I concur in the proposal to deny the subject application, so far as concerns the molybdenite prospect. No Bureau of Mines engineer has seen the underground showings. Anderson, of the U.S. G.S., mapped the workings, however, and reported that "there are no indications that additional work will yield a minable deposit of molybdenite." From Anderson's report it appears copper is a minor element in the mineralization ~~analysis~~. Perhaps you should give ~~him~~ applicant a chance to submit some further data on the copper prospect that would justify an examination of it. So far as I know, it has not been examined.

C. H. Johnson
C. H. Johnson

Copy to - Mr. Nelson
C. H. Johnson
Base Metals Branch
Files

4/22/52 gla

IN REPLY REFER TO:

G-MD-DML

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

March 19, 1952

Memorandum

To: Ernest Wm. Ellis, DMEA

From: D. M. Lemmon, USGS

Subject: Rare Metals Group DMA 2040 - Copper, molybdenum
Arnold H. Johnson
Kelvin District, Pinal County, Arizona

Comment: The Rare Metals claims were examined March 22, 1943 by Charles A. Anderson, Geologist, U. S. Geological Survey. Anderson concluded that there was little chance of finding commercial copper or molybdenum ore. He also notes that the work done on the prospect was financed by an RFC loan of $5,000.

Four copies of Anderson's memorandum and one copy of the map are attached for your use.

I concur with your recommendation that the requested exploration project costing $24,000 be denied.

D. M. Lemmon

Enclosures 2

Copy

U. S. GEOLOGICAL SURVEY

REPORT ON A BRIEF EXAMINATION OF THE RARE METALS (MOLYBDENUM) MINE, PINAL COUNTY, ARIZONA

By Charles A. Anderson March 1943

INTRODUCTION

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LOCATION

The prospect is in Riverside No. 2 Mining District, Pinal County, Arizona, about 4 miles west of Kelvin, and 1 mile south of the Gila River. A fair dirt road 2 miles long connects to the Kelvin-Florence graded road, 2½ miles from Kelvin. The Southern Pacific Railroad is only one mile away along the Gila River. At Present the prospect is yielding about 400 gallons of water per day.

DEVELOPMENT

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GEOLOGY AND MINERALIZATION

The country rock is coarse grained biotite granite, and at the surface quartz porphyry and aplite dikes of variable width up to several feet trend east west to northeast. In the crosscut, two lamprophyre dikes of similar trend are exposed. Quartz veins are exposed at the surface and underground. At the surface southwest of the shaft, a quartz vein strikes N. 70 E., dipping 80° N; the width varies from 1 inch to 2 feet. To the northeast of the shaft, irregular quartz bodies are exposed. Underground, quartz stringers form zones, 1 to 2 feet wide, striking N. 75 E., vertical dip. Some of the stringers carry pyrite, chalcopyrite and traces of molybdenite. The surface exposures of quartz are barren except for limonite and faint malachite stains. No positive molybdite was recognized.

The chief molybdenite mineralization is in two fault zones, east west to northeast strike, where thin seams of molybdenite appear in the fault gouge, usually smeared out by post-molybdenite movement. At the face of the south drift, specular hematite is exposed in narrow bands. The owner, Mr. Johnson, reports that molybdenite is associated, but this was not confirmed.

The seams of molybdenite are too narrow and too far apart to constitute ore and no samples were taken for assaying as the grade is far too low for serious consideration as a hopeful prospect.

FUTURE OF THE PROSPECT

The structural features, such as dikes, veins and faults have an east to northeast trend so the plan of crosscutting northward from the shaft was wise in the attempt to cut through a mineralized zone. Two such zones were intersected but of a grade too low to merit serious consideration. There are no indications of wide spread mineralization to encourage prospecting for big tonnage. The only hope is finding pockets of high grade molybdenite along the fault zones and as none have been found in 35 feet of drifting, the chances of finding pockets rich enough to mine seem very poor in the absence of suggestive evidence at the surface. Continued prospecting would have to be along the fault zones which are caving badly, leading to expensive prospecting with little hopes of finding commercial ore.

RECOMMENDATIONS

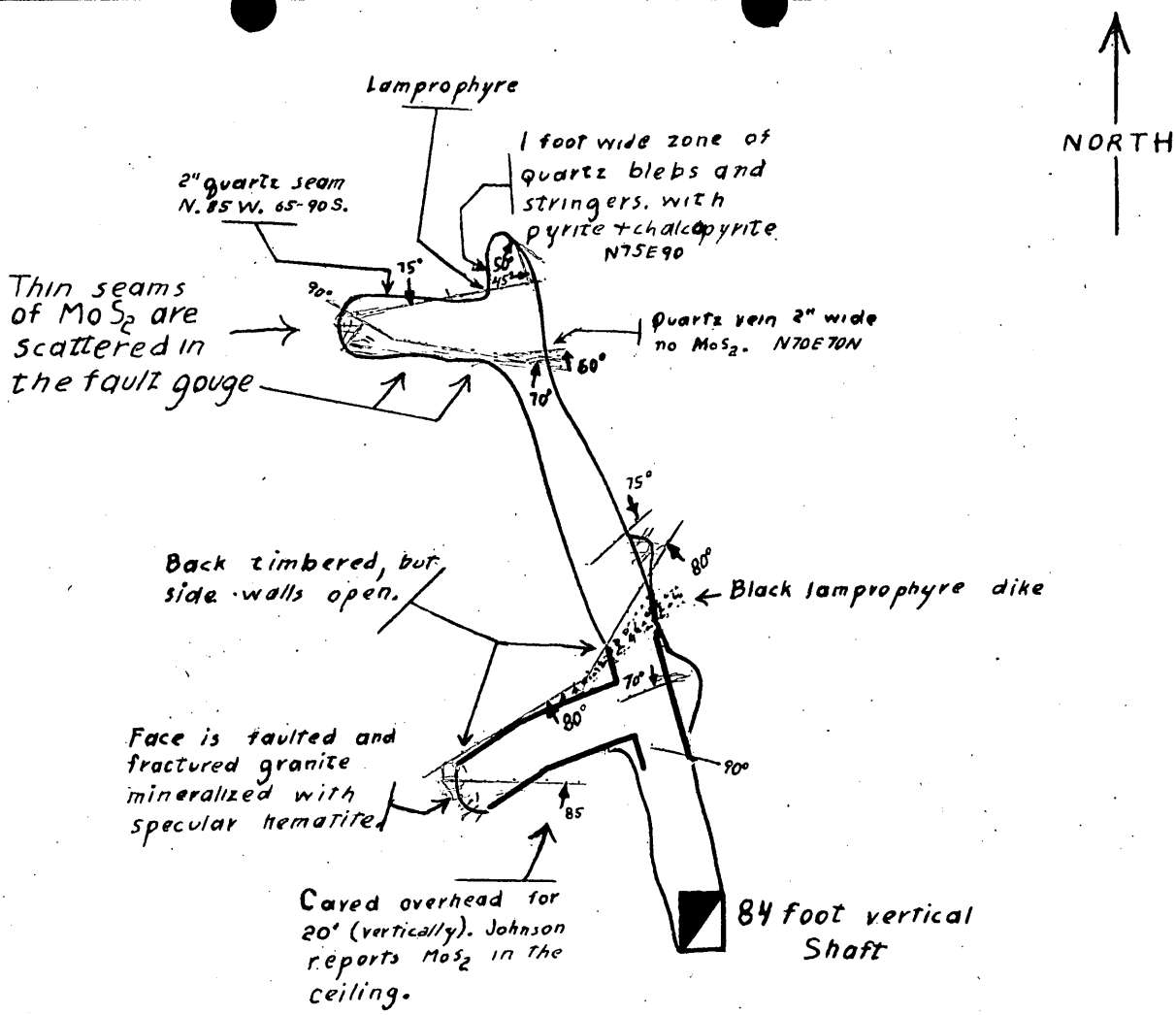
I recommend that no additional work be done at the Rare Metals Mine as there are no indications that additional work will yield a minable deposit of molybdenite.

March 23, 1943
Prescott, Arizona

Respectfully submitted,

/s/ Charles A. Anderson

Charles A. Anderson
Geologist
U. S. Geological Survey



RARE-METALS WORKINGS

SOUTHWEST OF KELVIN

Pinal County, Arizona

U. S. GEOL. SURVEY
CONFIDENTIAL
FOR USE OF
U. S. GOVERNMENT
ONLY

Scale: 1" = 20'

March 22, 1943

Charles A. Anderson, Geologist
U.S. Geological Survey

DMK

IN REPLY REFER TO:

G-MD-DML

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

March 19, 1952

Memorandum

To: Ernest Wm. Ellis, DMEA

From: D. M. Lemmon, USGS

Subject: Rare Metals Group DMA 2040 - Copper, molybdenum
Arnold H. Johnson
Kelvin District, Pinal County, Arizona

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Four copies of Anderson's memorandum and one copy of the map are attached for your use.

I concur with your recommendation that the requested exploration project costing $24,000 be denied.

Don Lemmon

Enclosures 2

DMLemmon:gt

Copy

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By Charles A. Anderson March 1943

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RECOMMENDATIONS

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March 23, 1943
Prescott, Arizona

Respectfully submitted,

/s/ Charles A. Anderson

Charles A. Anderson
Geologist
U. S. Geological Survey

IN REPLY REFER TO:

G-ID-DML

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By Charles A. Anderson

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Charles A. Anderson
Geologist
U. S. Geological Survey

4/22/52 gla

IN REPLY REFER TO:

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

March 18, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: DMA-2040 Rare Metals Group, Kelvin District, Pinal County, Arizona

Comment

The reports by H. D. Phelps (B. of M. 1944), and A. Macfarlane, (Department of Mineral Resources, State of Arizona, 1943) do not support the belief of the applicant who thinks his work is in the top of a body of copper and molybdenum ore.

One or two drill holes should furnish a good indication as to the above possibility. Perhaps the owner could do or have the drilling done. If favorable results should be obtained, the application would be more in order.

N. E. Nelson

Ned E. Nelson
Geologist

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

March 18, 1952

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N. E. Nelson

Ned E. Nelson
Geologist

Mr. Arnold H. Johnson

55 North Matlock Street

Mesa, Arizona

Re: Docket No. DMA-2040 (Molybdenum-copper)

Pinal County, Arizona

Dear Mr. Johnson:

Your letter of March 9 containing additional cost information and a copy of a report by Andrew Macfarlane, Department of Mineral Resources, State of Arizona, has been received by this agency. Mr. Macfarlane's report described the mine workings and geology but did not give any data to substantiate a discovery of ore: i.e. though the mineralization was described, no analyses or width, length, and vertical range of the mineralization were given. The only assay data received has been the returns you submitted on a sample of molybdenum concentrates which does not indicate the tenor of the ore to be expected. This concentrate contained 41.8 percent MoS_2 and 2.94 percent Cu. The current price of 60¢ a pound of MoS_2 is dependent upon a minimum content of 90 percent MoS_2, and only 1.00 percent Cu is allowed. (Copper in a molybdenum concentrate is an impurity and is penalized.) Concentrates of the grade submitted are not markaetable under these specifications.

It is noted that your application for an exploration project was filed for molybdenum. Your original letter in lieu of MF-100 listed both copper and molybdenum. For this reason, your property also is being considered under copper. Since you have stated that a car of copper ore was shipped from this property in 1949, the analyses of this shipment would indicate the grade of ore produced.

Cap Ellis - I think two entirely different properties are involved
Ned in Sec 5 and 6, the other in Sec 8 and 17 (Copper)

From a review by this agency of the information submitted to date, there is insufficient data to warrant an examination by the DMEA Field Team or to substantiate the promise of making a significant discovery of either molybdenum or copper at this prospect that would contribute to the National Defense. Under the circumstances, we regret to inform you that your application is being denied.

However if additional information or future exploration at your property reveals evidence which could alter this opinion, please be assured we will be glad to reconsider your application.

Sincerely yours,

M.H.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1952

E.W Ellis
Mr ~~J.B Gower~~
Chief Copper Branch

Docket D.M.A. 2040
Pinal County Ariz.
Mar 9. 1952

Dear Mr ~~Gower~~ Ellis;

In answer to your letter I am sending you a map and engineers report of the mine made in 1943 that I was unable to get at the time of application. The mine workings are the same as when report was made excepting a few more feet of work and a somewhat better ore discovery.

The reason that I want to sink the shaft can be figured two ways. first that water has stood in the mine and the broken up charatter of the ore has no doubt caused the drift to cave which would be costly. Second that all indications and verbal reports of engineers that have examined the property point to the fact that I have just

struck the top of the orebody. So I think it would be a waste of time and money to continue on this level.

As to contracting the work I do not have a bonafide contractor to make an estimate, but I do have men I can get to contract footage and we furnish everything.

This shaft will have to be timbered probably all the way.

I am also sending you assays that I have made and estimates of work and material. If you can suggest how to get started on this I will appreciate it very much.

Yours Respt.

Arnold H. Johnson

Estimate of work on contract basis. Owner furnishes all supplies

215 ft Shaft at $40.00	$8600.00
100 ft Drift at 20.00	2000.00
Powder fuse caps	500.00
Gasoline + oil	850.00
Pipe 300 FT 1 1/2	100.00
RAIL	80.00
Sump Pump	160.00
Cage	3250.00
TIMBER	750.00
MISC	600.00
	14065.00

VALUE OF EQUIPTMENT FURNISHED
BY OWNER + RENTAL VALUES

1 INGERSOLL RAND COMPRESSER VALUE 850.00	850.00
1 2½ HP MINE HOIST	500.00
1 PUMP	250.00
1 ELECTRIC PLANT	1500.00
1 MINE BLOWER	1000.00
1 MINE CAR	500.00
1 HEAD FRAME	5000.00
	$2400.00

AS TO RENTAL YOU CAN
ASCERTAIN VALUE.

$2400 depr 60 mos. = 40/mo depr.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine RARE METALS Date October 12, 1943

District Kelvin, Pinal County, Arizona Engineer A. Macfarlane

Subject: Development

PROPERTY:

The Rare Metals Group, consist of 2 recorded mining claims, the owners being Arnold H. Johnson and his wife Mrs. Helen B. Johnson, also a mill site claim distant nearly 2 miles northerly and on which is buildt a fair three roomed cabin, this being the mine home of Mr. and Mrs. Johnson.

LOCATION AND ROAD:

The Rare Metals shaft and plant are situated about 4 miles down stream from the Kelvin bridge, spanning the Gila River, and about 1 air mile south of the river, on the toe of high barren hills forming a chain east to west nearly paralleling the river course.

Approximately 4 miles down stream or west of the Mill Site cabin, the high hills forming both the south and north banks of the river terminates in the Gila Canyon, from whence westerly the valley of Florence widens.

The Hayden Winkleman branch of the Southern Pacific railroad runs past the Rare Metals claims and Mill Site along the south bank of the river, to debouche out of the canyon some 35 miles east of Florence, connecting with all transportation points west.

At a point about 3 miles southwest of the Kelvin bridge, a stub dirt road leaving the main Florence to Kelvin County and State road, turns down stream or west and ends at the mine and mill site, a distance on this branch of 4 miles from the main road and about 35 miles easterly from Florence the County Seat.

MINE WORKINGS:

Consist whilly of a vertical 85' two compt. shaft and about 100 linear feet of drift, extended from the north and following a fracture plane, having a course of north 30 degrees west.

At a point about 15' northwest of a shaft a short heading into the south wall, about 20', reached into some mineralization, being stringers of Molybdenite and Chalcopyrite.

The fracture was followed to a total distance of 95' and again, the same type of mineralization was found on the south wall, which when drifted on for 10' into the crushed and crying Gabro, exposes a stronger mineralization along a fault plane.

Due to the limited amount of work now accomplished on the copper molybdenite mineralized veinlets and joint planes, it is now only surmise as to the extent of same.

GEOLOGIC FEATURES:

The host rock in which is found the above described mineralization, appears to be a much fractured and crushed Gabbro, which at the drift heading contacts with Monzonite and it is likely, that along the contact plane, the mineral solutions found their course and deposition atmosphere.

The cross and associated zone of contact on and in the vicinity of these two basic rocks, are conditions favoring erratic in size and grade, mineral bodies, which in some localities, come into commercial sized mineralization.

The only level of the Rare Metals Mine yet made, seems to be above or near the top of such mineralization as now made visible, more extensive working is required by way of exploration to more fully prospect the ground.

ORE CHARACTER:

Along the joint planes of the caved and small stopes of the two inclines into the south wall, Molybdenite is found and also Chalcopyrite stringers.

Some dissemination of these two ores into the dabbro is also noted; however, the visible quantity of these ores is yet small and undeveloped.

Apparently this type of ore, is amenable to both table and air flotation concentration and the locality and water supply is good, and only awaits the further development of the mineral ls, to insure commercial quantity, for a proposed mill.

MINE EQUIPMENT:

Is well installed and adequate to carry the mine shaft to the next 100' lower, providing a much larger flow of water is not encountered; Mr. Johnson the owner is a first-class mine mechanic and has the mine machinery in good repair and conveniently installed.

The mine now makes about 10 to 20 gallons water per minute, a hand Jack and small gas motor keeps the mine clear of water.

The shaft is well timbered to the 75' level below collar; to deepen this shaft is proposed, it would be required to continue this shaft timbering, to the 185' level.

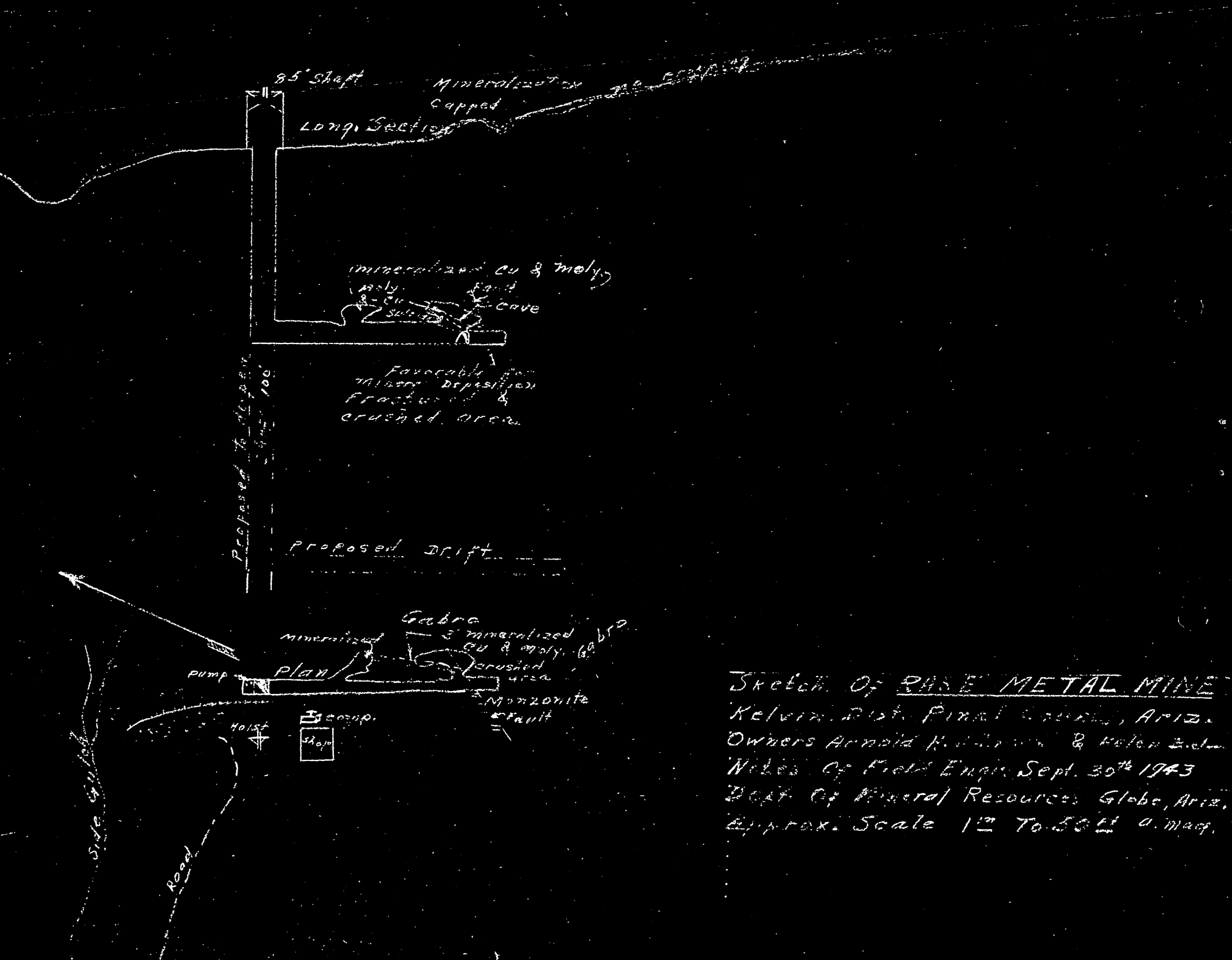
OWNERS:

The owners propose to sink the shaft 100' and to drift and cross-cut about 200', This exploration or development, will cost not less than $5,000 to $7,500. As now the plant of machinery, being hoist, compressor, drills, steel and pump and water and air lines installed, it is just possible that the proposed in all 300' of development, can be made at this estimated figure.

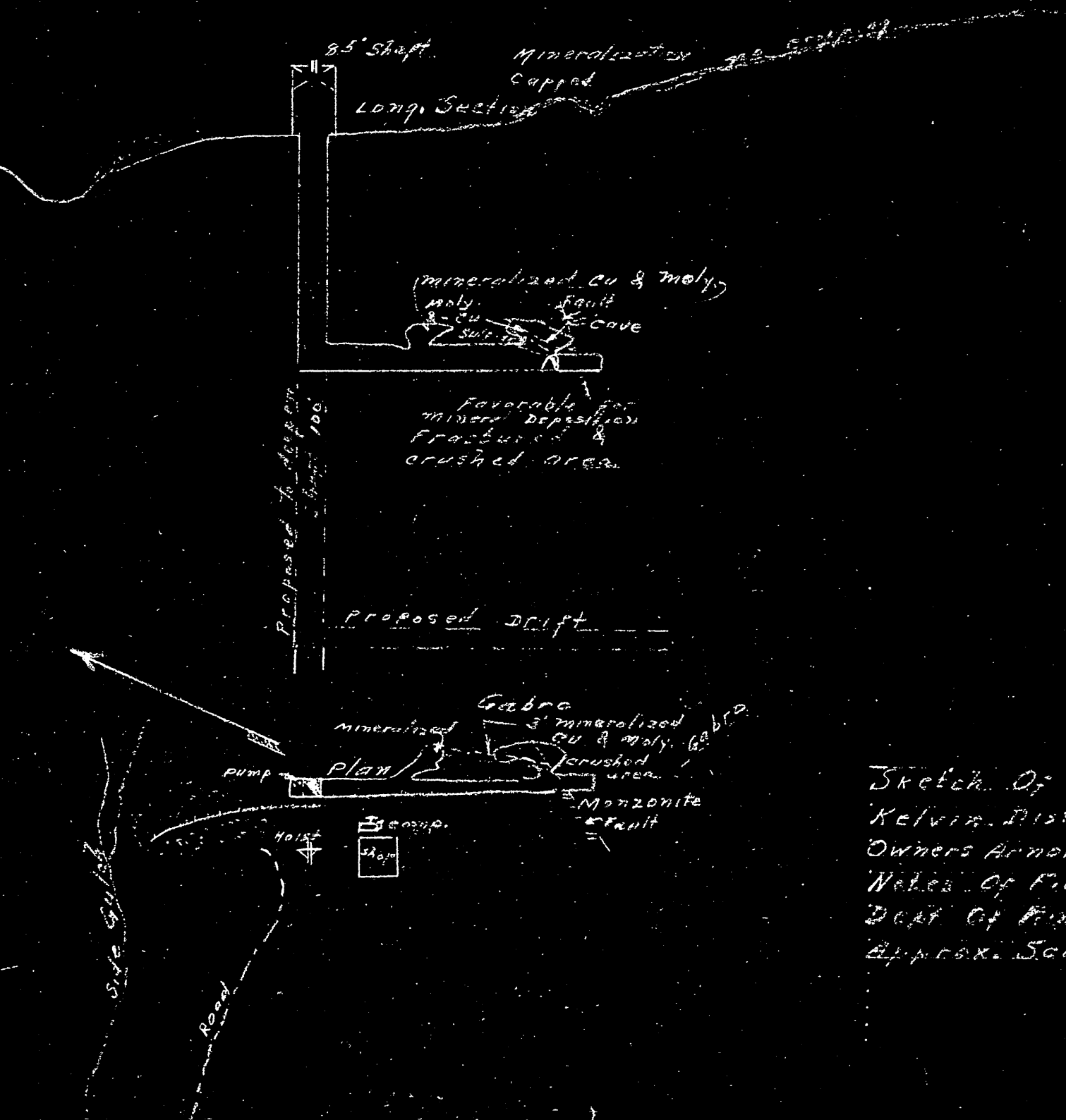
Until further openings are made on claims, it is not in order to at this time consider other phases of the mine.

A. MacFarlane

Owners:
Mr. Arnold H. Johnson
Mrs. Helen B. Johnson
302 N. 14th Street
Phoenix, Arizona Ph: 3-1959



Sketch Of PHOE METAL MINE
Kelvin Dist. Pinal County, Ariz.
Owners Arnold [illegible] & Helen [illegible]
Notes Of Field Engr. Sept. 30th 1943
Dept. Of Mineral Resources Globe, Ariz.
Approx. Scale 1" To 50 ft a. map.



Sketch Of RAKE METAL MINE
Kelvin Dist. Pinal County, Ariz.
Owners Arnold H. Johnson & Helen B. [illegible]
Notes Of Field Engr. Sept. 30th 1943
Dept Of Mineral Resources Globe, Ariz.
Approx. Scale 1" To 50 ft a. map.

CLIMAX MOLYBDENUM COMPANY
500 FIFTH AVENUE
NEW YORK

TELEPHONE PENNSYLVANIA 6-8787
MINE AND MILL, CLIMAX, COLORADO
CABLE ADDRESS "MOLYBDENUM" NEW YORK

June 18th
1 9 4 2

PAH: #1651

Mr. A. H. Johnson
218 South 11th Avenue
Phoenix
Arizona

Dear Mr. Johnson:

For your information, I am sending you the assay returns on the sample of concentrate from your mine near Wooley, Arizona:

MoS_2	41.8 %
Fe.	6.73%
Cu.	2.94%
Insol.	17.62%

We regret to say that, due to present conditions, we are unable to investigate your deposit further. However, I was glad to have had the opportunity of going underground on your property, and remain, with best wishes for the future,

Very truly yours,

CLIMAX MOLYBDENUM COMPANY

Parke A. Hodges

PAH:1

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Parke A. Hodges

FILE COPY
SURNAME:

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

AIR MAIL

FEB 19 1952

Mr. Arnold H. Johnson
55 W. Matlock Street
Mesa, Arizona

Re: Docket No. DMA-2040 (Copper)
Pinal County, Arizona

Dear Mr. Johnson:

A review of your application of August 28, 1951, for a $24,000 exploration contract reveals that a letter was written to you in September of 1951 by Mr. J. B. Cowen of the former Supply Divisi n of DMA requesting additional information necessary to process your application. No reply to this communication has been received and we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by March 20, 1952, we willthen consider the docket closed.

Sincerely yours,

Signed E.W. 2-19-52

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

GLAult/EWEllis/gla
2-19-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Regional Office IV, (2)

310

FILE COPY
SURNAME:

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

G.E.C.

Mr. Arnold H. Johnson
55 N. Matlock Street
Mesa, Arizona

Re: Docket DMA-2040

Dear Mr. Johnson:

In reviewing your application for exploration aid it is noted that more information is needed before it can be further processed.

You mention in your application that you will contract your shaft sinking and drifting. If this is the case a firm bid from the contractor should be submitted stating the cost of the work per foot.

Maps should accompany your application showing the location of your claims, any mine workings, assay samples, and location of the work you propose to do.

In listing your cost you should itemize those that are applicable. The equipment you propose to rent to the project for $400 should be itemized with rental costs for each. This applies also to cost of material and supplies that you have lumped into a sum of $4000.00 and to the compressor truck, etc. for $6000.00.

If you have any of the assay records or smelter returns, a copy of them would help in considering your application for assistance.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

got stripped in R&R.

RVWaugh:ez
9/10/51

Copy to: Adm. Reading File
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

Mr. Arnold H. Johnson
55 N. Matlock Street
Mesa, Arisona

Subject: DMA-2040
Re: Exploration Loan
Rare Metals

My dear Mr. Johnson:

This will acknowledge receipt of your application dated May 21, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2040 and referred to the Copper Branch.

Kindly refer to DMA-2040 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

2463

1. Spurgeon
2. Lyon

MAY 28 1951

55 N. Matlock St.

Mesa Arizona.
May 21 1951.

Defense Minerals Administration
Washington D.C.

DMA-2070

Dear Sirs, This in absence of a form M.F. 100 is my application for a Serial number for my Copper and Molybdenum mines as per information.

A. Material produced. Copper Molybdenum.

B. Pinal County Copper Claims in T. 4 S. Range 13 East Sections 5,6, 7,8,9, Molybdenum Claims in Sections 8, 17.

Distance to nearest shipping point Wonley Siding from one half to one and one half miles. Distance to nearest town Ray 12 miles.

At present am working myself and my son.
One car of Copper ore shipped in 1949. At present am developing.

I would also like to apply for a development loan on the Molybdenum property as the last work I did showed promise of a sizable body of Molybdenite ore assaying nearly four percent M.O. s2. And as my shaft is only 84 feet deep and on top of this sulphide ore body of Molybdenum Copper I feel that some development should be done.

Yours Very Truly
Arnold H. Johnson
Arnold H. Johnson

SEP 5 7 56 AM '51
DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 25 1951
[illegible] F. SI[illegible]EL
Executive Secretary

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2040

Date received 9-5-51

Participation

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 28, 1951

Estimated cost 24,000.00

Mineral or metal Molybdeaum

Percentage of Government participation 50 %

Location of mine Pinal County

Date of filing MF-100

DMA Docket Number, if available 2040

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

(Name of company)	By Arnold H. Johnson (Signature of authorized official)
August 28, 1951 (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.

*Same as footnote on page 1.

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

TO BE ATTACHED TO FORM

1. Individual

2.

3.

4. The project will be managed by the applicant who has had sixteen years experience in mining. And at present is engaged in building mills as well as working his own property.

5. Sole owner of property.

6. None.

7.

8. Assets $15000.00 Liabilites $2500.00

9. Can match amount ask for in equiptment and investment only.

10. This is known as the rare metals, claims recorded at Florence Arizona as number one and two. Located about 12 miles south of Ray in Pinal County T. 4. S. sections 8-17. Now completly equipped with head frame, hoist, compressor buildings. And etc.

11. Rare metals.

12. Twelve miles from Ray one mile to S. P. R. R. 2 miles to Wooley Siding which has ore loading ramp. 2 miles to main highway good roads.

13. Plenty of water, as Gila River is 7/8 mile from mine. Also have millsite along river. At present have gasoline engines of 50 H. P. Power line only 2 miles away from mine.

14. Equipement on property consists of 22 H. P. single drum hoist, 30 H. P. stationary air commpressor. 3 x 4 air receiver 28 ft. head frame 84 ft. timbered shaft. Air pipes 100 ft. track one mine car, one ore bucket 1000 pound. Bufflo Blower for ventilation shed about 20 x 30 over machinery. One deep well dump, one gas engine. One Gardner Denver Jack Hammer, air hose, etc.

15. Ore to be milled on property.

16. I have worked on this property for about ten years developing to a point where I could determine the amount of ore. The last work proved to me that I would have to go deeper as I was on top of the ore body.

17. Ore taken out but not sold, as work progressed.

18. Not known.

19.

20. Molybdenite - Copper ore. Copper in chalcopyrite form.

21. Proposed work to deepen existing shaft to 300 ft. then drift approxamatley 150 ft. to cross cut Molybdenite ore body. Time required ten months.

22. This is quartz stock work and shear zone in a granite area. Cut by veins of Diorite and Monzonite and Gabbro. As the host rock being Monzonite and Quartz is shattered for an area of 100 feet there is possibility of a sizable ore body. Assays taken from a 7 ft. width ran Mo. 52 3.75% C. U. 2. 5 %

23.

A. To be contracted
B. None
C. None
D. None
E. Hoist $1000.00 Compressor truck etc. $6000.00
F. None
G. $400.00per month
H. $4000.00

24. Expect to progress as rapidly as possible and to be ready to produce in ten months.

Form MF-103
(April [illegible])

U[illegible] DEPARTMENT OF THE INTER[illegible]R
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. Dm A-20 Fo

Date received 9-5-51

Participation

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 28 1951

Estimated cost 24000.00

Mineral or metal Molybdeaum

Percentage of Government participation 50 %

Location of mine Pinal County

Date of filing MF-100

DMA Docket Number, if available 20 Fo

INSTRUCTIONS

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15. Ore to be milled on property.

16. I have worked on this property for about ten years developing to a point where I could determine the amount of ore. The last work proved to me that I would have to go deeper as I was on top of the ore body.

17. Ore taken out but not sold, as work progressed.

18. Not known.

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20. Molybdenite - Copper ore. Copper in chalcopyrite form.

21. Proposed work to deepen existing shaft to 300 ft. then drift approxamatley 150 ft. to cross cut Molybdenite ore body. Time require ten months.

22. This is quartz stock work and shear zone in a granite area. Cut by veins of Diorite and Monzonite and Gabbro. As the host rock being Monzonite and Quartz ia shattered for an area of 100 feet there is possibility of a sizeable ore body. Assays taken from a 7 ft. width ran Mo. 52 3. 75 % C. U. 2. 5 %

23.

A. To be contracted
B. None
C. None
D. None
E. Hoist $1000.00 Compressor truck etc. $6000.00
F. None
G. $400.00 per month
H. $4000.00

24. Expect to progress as rapidly as possible and to be ready to produce in ten months.

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[redacted]1)

U.[redacted] DEPARTMENT OF THE INTER[redacted]R
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2040

Date received 9-5-51

Participation

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 28, 1951

Estimated cost 24000.00

Mineral or metal Molybdeaum

Percentage of Government participation 50 %

Location of mine Pinal County

Date of filing MF-100

DMA Docket Number, if available 2040

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

(Name of company)	By Arnold H. Johnson (Signature of authorized official)
August 28, 1951 (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.

*Same as footnote on page 1.

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

TO BE ATTACHED TO FORM

1. Individual

2.

3.

4. The project will be managed by the applicant who has had sixteen years experience in mining. And at present is engaged in building mills as well as working his own property.

5. Sole owner of property.

6. None.

7.

8. Assets $15000.00 Liabilites $2500.00

9. Can match amount ask for in equiptment and investment only.

10. This is known as the rare metals, claims recorded at Florence Arizona as number one and two. Located about 12 miles south of Ray in Pinal County T. 4. S. sections 8-17. Now completly equipped with head frame, hoist, compressor buildings. And etc.

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Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2040

Date received 9-15-51

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Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 28, 1951

Estimated cost 24000.00

Mineral or metal Molybdeaum

Percentage of Government participation 50 %

Location of mine Pinal County

Date of filing MF-100

DMA Docket Number, if available 2040

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