S.A.
700 2-7-52
FILE COPY
SURNAME:

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

Rutledge
Ellis
Johnson M.
Nelson
Hedges
Hayes

AIR MAIL

FEB 7 1952

Mr. H. M. Jones
1150 West Fifty Third Street
Los Angeles 37, California

Re: Docket No. DMA-1542 (Copper)
San Bernardino Co., California

Dear Mr. Jones:

Your application for an exploration contract on your Broadway copper prospect in San Bernardino County, California, has been reviewed by this agency.

The geologic evidence and analytical results of the supporting samples taken by the examining field team fail to support the promise of making a significant discovery of copper ore in this prospect that would contribute to the National Defense. Under the circumstances, we regret to inform you that your application is denied.

If future exploration on your property reveals additional information which alters this opinion, please be assured we will be glad to consider a new application.

Sincerely yours,

C. O. Mirrendorf (for)

Acting Administrator
Defense Minerals Exploration
Administration

H Keller/jem
1/31/52
cc to: Adm. Reading File
2-8-52 Docket
S.D. Messrs. Johnson, Ill Rm. 3621
Nelson, Ned Rm. 4216 G.S.
Keller
Ellis
Field Team, Reg. III (2)

THE ADMINISTRATOR

1/28/52 rgfa

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

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

Office of
Executive Officer
DMEA Field Team
Region III

January 15, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMA-1542X (Copper) - H. W. Hanna, 1158 West Fifty-Third Street, Los Angeles 37, California.

Reference is made to "Review of Application for Exploration Assistance", signed by Tom Lyon and dated October 23, requesting additional information regarding the applicant's property in San Bernardino County, California, and a check of the applicant's costs.

Attached are four copies of a report, "DMEA-1542, Broadway Copper Prospect, San Bernardino County, California", by C. D. Rinehart and W. P. Irwin, Geologists, U. S. Geological Survey, dated January 11, 1952.

The examining geologists recommend that the loan be denied as samples from the metal-bearing structures show values far below an economic grade and no indication of material of higher grade was seen.

Inasmuch as there is no indication of the existence of commercial ore on the property, or the geologic chance of finding any, there seems no need to check the accuracy of the applicant's costs. No engineer, therefore, has been requested to discuss costs with the applicant.

The docket is being returned herewith.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

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

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
1-25-52
(date) KL

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 1542, Broadway Copper Prospect

San Bernardino County, California

C. D. Rinehart, Geologist
W. P. Irwin, Geologist
U. S. Geological Survey

January 11, 1952

Introduction

The copper prospect of H. W. Hanna was examined at the request of the Defense Minerals Administration to determine the feasibility of Government participation in a $25,000 exploration program. W. P. Irwin and C. D. Rinehart of the Geological Survey examined and sampled the property on December 17 and 18, 1951, in the company of J. W. Roulette and H. W. Hanna. Government participation in the exploration program is not recommended, as samples from the metal-bearing structures show values far below an economic grade and no indication of material of higher grade was seen.

The property is on the east slope of the Slate Range at an altitude of approximately 3600 feet, in northern San Bernardino County, California. It is in the W½, Sec. 29, T. 25 S., R. 45 E., MDBM (projected), 5 miles west of Windgate Pass and 4.5 miles south of the northern boundary. of the county.

The property is most easily accessible from Ballarat, California. From Ballarat, travel south about 25 miles on the Panamint Valley road to a point about 0.2 miles south of the Windgate Pass road. Turn west and go 0.8 miles to a fork in the road. Turn to the right and go 3 miles to the property,at which point the road ends. The roads are unimproved but are passable to ordinary passenger-type automobiles, with the possible exception of the last 0.5 miles.

The property, located in 1948 by H. W. Hanna, consists of 13 unpatented claims. Equipment on the property consists of about 300 feet of track, one ore car, a small portable compressor, one ore bin, 2 semi-permanent trailer-houses, and one cabin. The buildings are situated along the road about 0.8 miles southeast of the main adit.

Two northwest-trending adits, 224 and 35 feet long, and a vertical shaft 22 feet deep, existed on the property prior to its location by Hanna. The shaft is about 200 feet northwest of the portal of the main adit, and the smaller adit is about 800 feet further to the northwest. Hanna's work has been confined to lengthening the main adit to 300 feet and driving a crosscut 35 feet to the northeast from a point 265 feet from the portal. He reports that no ore has been shipped from the property.

Geology and Ore Reserves

The area is underlain by dacite (?), which is cut by several felsic dikes, and in general is highly fractured. The two adits are in a shear zone that strikes N.70°W. and dips steeply to the south. The zone is 30 feet wide, and in places is highly iron-stained and slightly silicified. A nearly vertical quartz vein exposed on the northeast side of the shear zone in the crosscut and in the vertical shaft strikes N.55°-60°W. On the surface, the vein can be traced by numerous outcrops for more than 800 feet northwest of the portal of the main adit, and at the northernmost outcrop it is about 250 feet northeast

of the shear zone. The vein is 6 to 12 inches wide and contains sparse patches of pyrite grains and voids from which crystals of pyrite, and possibly other sulfides, have been leached. The wall rock adjacent to the vein is highly altered. The occurrence of the ore minerals in the shear zone is similar to that in the vein, except the pyrite is less abundant. Limonite and a few small patches of chrysocolla (?) were the only other metallic minerals observed in either the shear zone or the vein.

The exploration plan of the applicant is based upon his belief that about 60 feet southwest of the main adit there is a copper-bearing shear zone. To intersect this postulated copper-bearing zone he proposes to sink a 200 foot shaft near the face in the main adit, and to drive cross-cuts at the 100 and 200 levels. The Survey Geologists could find no surface expression of the postulated ore zone, and see no reason to infer it exists.

Three chip samples were taken in the workings. Sample No. 1 was taken across the shear zone at the portal of the short adit. Sample No. 2 was taken across the shear zone at the face of the short adit. Sample no. 3 was taken across the quartz vein in the crosscut. The following assay values were determined by the Hydrometallurgical and Ore Testing Branch, Bureau of Mines at Reno, Nevada.

Sample No.	Width in feet	%,Cu	%, Pb.	%, Zn	Oz.Au/T.	Oz Ag./T.
1	22	0.05	*0.1	0.1	0.005	0.40
2	3	0.09	*0.1	0.1	Trace	Trace
3	4	0.06	*0.1	0.1	0.07	1.90

* Less than

Conclusions

The applicant appears to lack a practical understanding of mining, and should be guided in any mining operation by a competent geologist or mining engineer. The assays show that the rock sampled is much too low in grade to constitute ore. No indication of the existence of higher grade material was seen on the property. Therefore, an exploration program is not recommended.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

1-25-52
(Date) KL

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 1542, Broadway Copper Prospect

San Bernardino County, California

C. D. Minehart, Geologist
W. P. Irwin, Geologist
U. S. Geological Survey

January 11, 1952

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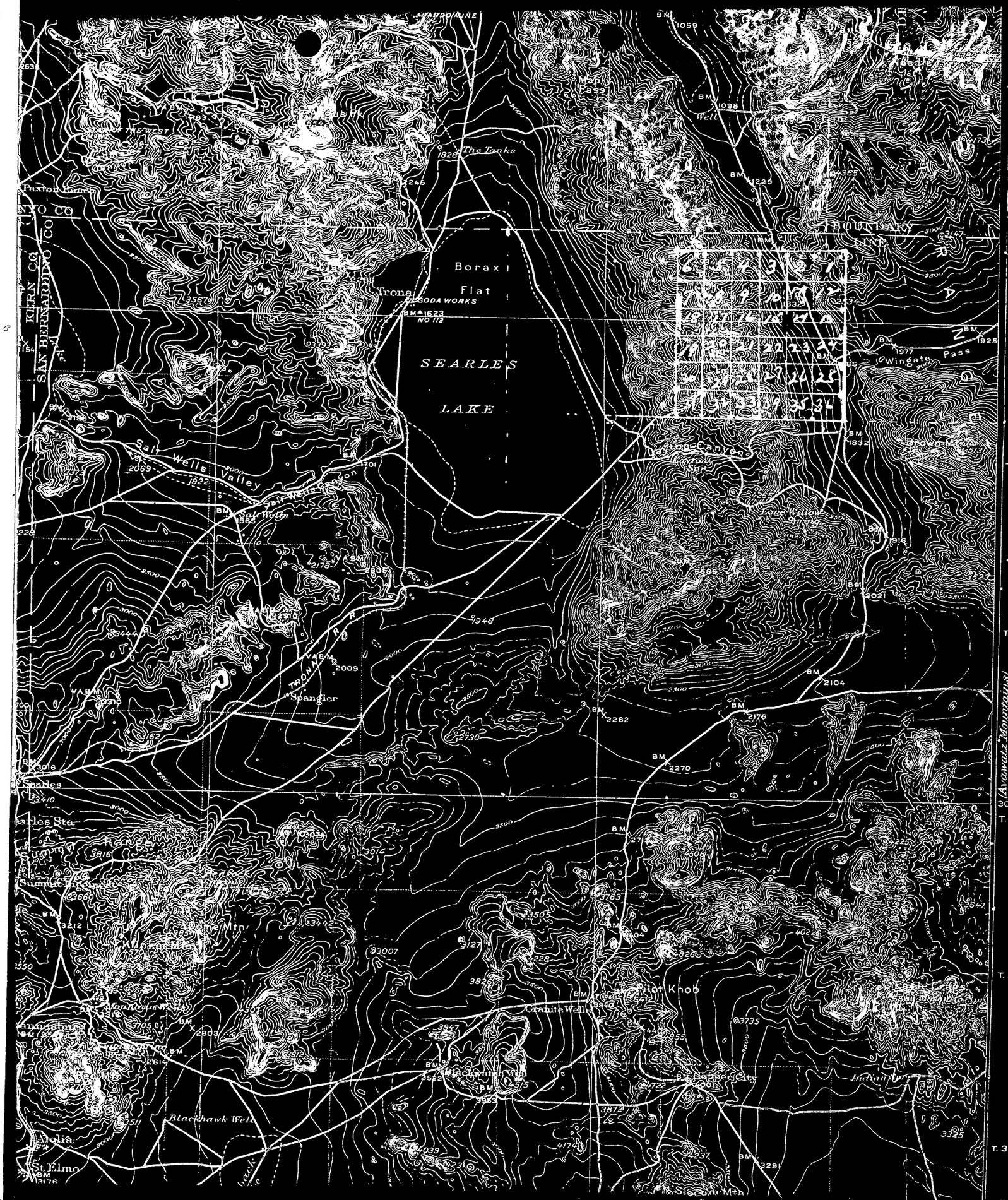
Boraxo Flat
Trona
SODA WORKS
BM 1623
NO 112
SEARLES LAKE
The Tanks
Paxton Ranch
KERN CO
SAN BERNARDINO CO
BOUNDARY LINE
Salt Wells Valley
Salt Wells
Spangler
Searles
Searles Sta.
Summit Mtn.
Pilot Knob
Granite Wells
Blackhawk Well
Argolia
St. Elmo
Wingate Pass
Brown Mtn.
Slocum Mtn.
(Avawatz Mountains)
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T. 26 S.
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BM 5180
BM 5565

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
OCT 2 5 1951
SAN FRANCISCO, CALIFORNIA

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

OCT 2 3 1951

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. Copper

Commodity 1542X

Applicant Mr. H.W.Hanna, 1158 West 53rd Street, Los Angeles 37, California

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

H.W. Stearns
For the Bureau of Mines

T. P. Thayer
For the Geological Survey

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

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

OCT 23 1951

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Very truly yours,

SIGNED

Chairman
Coordinating Committee

H W Stearns
For the Bureau of Mines

For the Geological Survey

FILE COPY
SURNAME:

Gowen

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

July 16, 1951

Re: Docket No. DMA-1542X

Mr. H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Dear Mr. Hanna:

This is to acknowledge and reply to your letter of July 10, 1951. The applications for aid for exploration are processed in the order in which they are received and at the present time yours is in the hands of one of the Defense Minerals Administration engineers. We are unable to state just how long it will take to process your application but you may be assured everything possible is being done to speed it to completion. You will hear further from us shortly.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

JWAlt:ex

Copy to: Reports and Records Branch, w.c.i.
Executive Officer, DMA Field Team, Region III w.c.i.
Copper Branch, w.c.i.
Files

Air Mail

July 10, 1951

ans. 7-16-51

Mr. J. B. Gowen, Chief
Copper Branch
United States Department Of The Interior
Defense Minerals Administration
Washington 25, D. C.

Subject: DMA-1542X
Re: Exploration Loan
Hanna Mines

Dear Mr. Gowen:

Mr. Landon F. Strobel, Executive Secretary, advised me under date of June 19, 1951, that my application had been referred to you.

Not having heard from you, I am writing to inquire if it would be possible, without inconvenience to you, to give me some idea about the length of time it would ordinarily take to act on such an application. The reason I make this inquiry is I desire to hold myself in readiness at any time you might want to communicate with me, therefore I will very greatly appreciate any helpful information or suggestions you may give me along this line.

Thanking you, I am,

Very truly yours,

H. W. Hanna

H. W. Hanna

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 12 1951
LANDON F. STROBEL
Executive Secretary

FILE COPY
SURNAME:

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

June 19, 1951

Mr. H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Subject: DMA-1542X
Re: Exploration Loan
Hanna Mines

My dear Mr. Hanna:

Receipt is acknowledged of your application and attachments of May 28, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1542X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1542X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
Gowen
Lyon

Form MF-103
(April 1951)

U[redacted]DEPARTMENT OF THE INTER[redacted]

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-1542X

Date received 6/13/51

Participation

H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Name and address of applicant

Date May 28, 1951

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $25,000.00

Mineral or metal Copper, Gold, Silver

Percentage of Government participation 50%

Location of mine Slate Range Mining District

San Bernardino County, California

Date of filing MF-100

DMA Docket Number, if available

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 H. W. Hanna (Signature of authorized official)

May 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

Refer	Noted	Date
Answered		

May 28, 1951

DEPARTMENT OF INTERIOR
BUREAU OF MINES
ELKON M
RECEIVED
MAY 29 1951
SAN FRANCISCO, CALIFORNIA

U. S. Department of the Interior
Defense Minerals Administration
1415 Appraisers Bldg.
San Francisco, California

Enclosed find application for Aid For An Exploration Project Pursuant To Mineral Order 5, Under Defense Production Act of 1950, Form MF-103, together with statement showing investment costs to date which may be considered my Balance Sheet and my Profit and Loss statement.

Answering the items appearing on the lower part of Form MF-103:

1. I am sole owner.

4. The applicant studied Geology under the practical training of a life-time miner by the name of William Rush, of Los Angeles. In addition, I have had about five years of work as a practical miner.

5. There are 13 claims owned by me, registered in my name and are current. All claims are joined one to another.

7. There are no outstanding contracts, claims, or incumbence against the property.

8. Statement attached.

I have the assurance of friends that whatever capital I need to make good my part of the contract, will be forthcoming.

I have a vein approximately 60 feet wide and approximately 1,000 feet long. Also an open pit 65 feet wide and 200 feet deep and approximately 1,000 long. The Ore valued at approximately $12.00 per ton. In addition, I have about six thousand dollars gross worth of Ore outside the Mine, ready for processing.

H. W. Hanna

H. W. Hanna

THE PROPERTY

Items:

10 San Bernardino County, Slate Range Mining District. Unsurveyed.
Property located from about 800 to 7,000 feet from the Hafford Mine (a patented property) as recorded in Book 304, pages 366 to 378 inclusive, of the Recorder's Office in San Bernardino County, California.

11 10 Broadway Claims and
3 Sentinel Claims - Former and present.

12 Nearest town, Trona.
Nearest shipping point by rail, Trona, 54 miles or to Searles, 78 miles.

13 Two developed springs and other springs that can be developed will furnish all water necessary.
Will use air compresser.

14 1 Cabin, two trailer houses.
Accommodate six persons.

15 By truck to Trona or Searles to Superior, Arizona to Magma Copper Co. - See answer to item 12.

16 Discovery: A miner of 40 years experience by name of William Rush did the geology work and I did the assessment work. An old tunnel existed on Broadway No.1, for 224 feet. I have extended it to 309 feet. Also a cross-cut of 35 feet. No operation or production as yet.

17 No production as yet.

18 No operation as yet.

19 There are about 500 tons of Ore on the ground assayed at $14.00 per ton.

THE EXPLORATION

20 Copper, Silver, Gold, Lead, Antimony.

21 Sink a shaft 200 feet deep, then cross-cut to Vein which is 60 feet wide on surface. Will take 3 months to complete.

22 The geological basis of the project is the daysite dyke running northerly and southerly intersecting the ryolite dyke which runs easterly and westerly approximately 100 feet southerly where I propose to sink the shaft. I have there what is called a horst. Geological maps not available. Maps of the proposed openings and assay maps and sample lists not made. Photostatic copy of Searles Lake quadrangle attached.

THE REQUIREMENTS AND COSTS

23

(a) 1 Miner and 2 muckers at $12.00 per day each. If contracted will amount to $20.00 each day. Cost will be about same under either plan but work will be done quicker under contract plan.

(b) I will supervise the work.

(c) $100.00 on repairs to buildings
$150.00 Repairs to truck
$ 50.00 Repairs on compresser

(d) None.

(e)

A tugger, about	$500.00
A ventilating system	500.00
A Pick-up truck	600.00

(f) None.

(g) Do not at this time know how to estimate rental value of equipment.

(h) See Item 24.

(i) Powder fuse, caps, gas, oil, and timber. Cost estimated at $10.00 per foot, for 200 feet - $2,000.00.

SHAFT

$60.00 per day	=	3 feet
66 2/3 work days	=	200 feet
66 2/3 x 60	=	$4,000.00

CROSSCUTS

30 feet @$10.00 per foot	$300.00
Assays	166.00
Cost of my keep	270.00

These items total $8636.00. I have estimated amount required at $25000.00, so as to have enough to complete the project under all circumstances.

H. W. HANNA
Owner of Hanna Mines
Slate Range Mining District
San Bernardino County California

BALANCE SHEET AS OF MAY 27, 1951

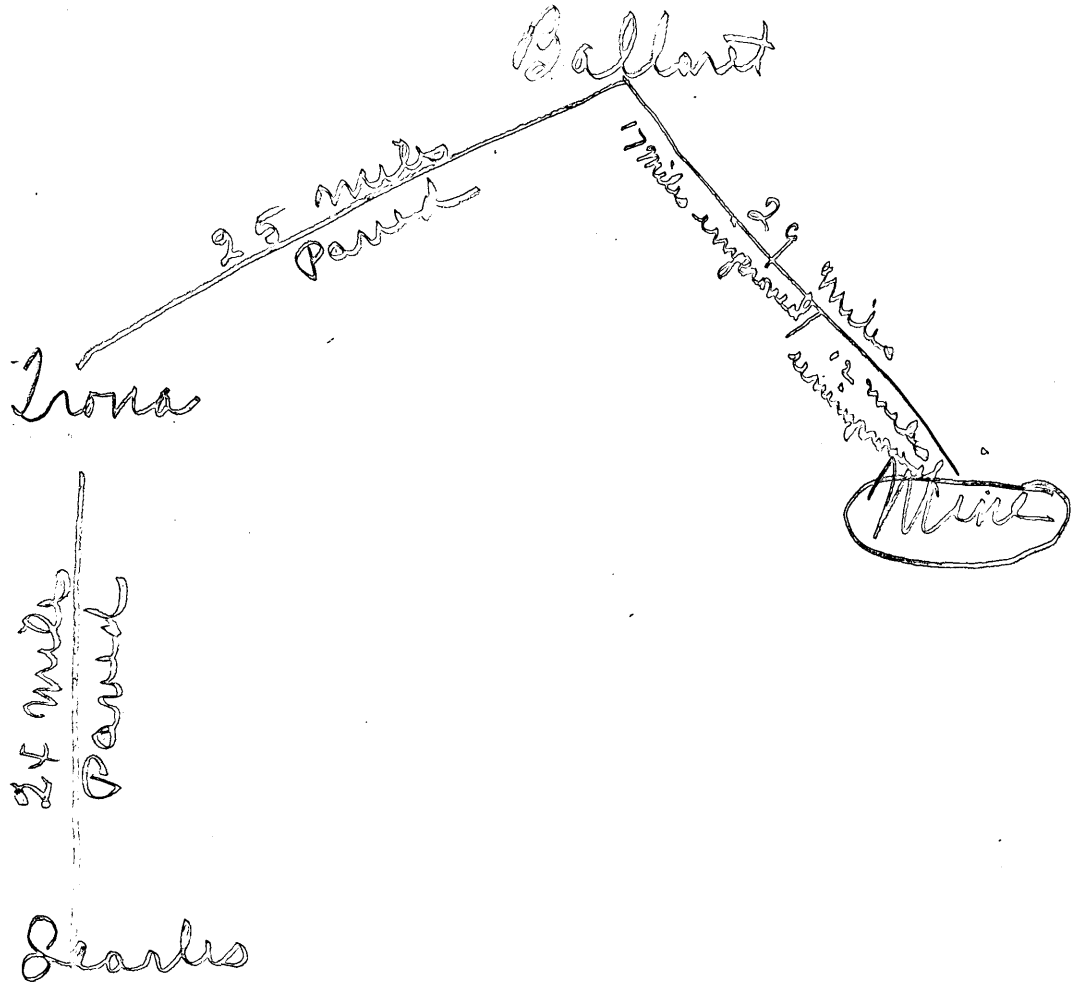
INVESTMENT		OBLIGATIONS	
Claim Costs - - - -	$ 1000.00	Notes due friends for personal loans	$18000.00
Development Work including 450 days of own labor at $12.00 per day - - - - - - - -	14802.00?		
Road improvements - - -	520.00		
Living quarters - - - -	650.00		
Machinery & Equipment including $3400.00 Mill	5855.00		
Truck & Automobiles - -	3015.00		
Repairs to Machinery and Autos - - - - - - - -	500.00		
Insurance on Men & Equipment - - - - - - - -	500.00		
Total	$26,842.00?		$18000.00

Present Value - Auto & Truck - - - - - - - - - - - - - -		$ 500.00
Present Value - Machinery & Equipment	$5855.00	
Less Depreciation	585.50	5269.50
Present Value - Living Quarters	650.00	
Less Depreciation	350.00	300.00

Dma - 1542X

Item 12

Trucking route



Several places on 12 mile unimproved road out of mine must be fixed
Probably cost 500 dollars.
Iona railroad runs from Iona to Searles - other S.P. R.R.
Better service is had by trucking to Sears Siding on S.P.R.R. to Magma Copper Co at Superior, Ariz.

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 15424

Commodity COPPER

Total Amount $25,000

Govt. Participation $12,500

1. Name and Address of Applicant H. W. HANNA
1158 WEST 53rd ST., LOS ANGELES 37, CALIF

2. Location of Property SLATE RANGE MINING DISTRICT,
SAN BERNARDINO COUNTY, CALIF.

3. Mineral or metal COPPER Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES - OWNER
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future

productive period? —

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? —

b) MF-202 —

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower YES

b) Equipment and supplies DOESN'T LIST EQUIPMENT.
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* NOT TO GOOD

d) Water (question 13)* YES

e) Power (question 13)* YES

Is a field check needed on any of these points? YES - ACCESSIBILITY

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* YES

I don't agree. Should check on this. cg

Is a field check needed on this point? No Yes.

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? YES

If not, are there sufficient data given so that you can describe the project? — If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? YES

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? YES

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? YES -

f) Should more information be requested from applicant? No

g) Is a field examination necessary to complete Exhibit A? No

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? e APPLICABLE for NOT sure

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable?

d) Is a field check needed? yes - rentable equipment and rates

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? YES

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? YES

e) Is a field check needed? No.

EXHIBIT A (21-22)

The applicant proposes to sink a shaft 200 ft deep, when cross-cut 30 ft to vein which is 60 ft under surface.

SINK SHAFT @ $60.00/DAY 3 FT/DAY 66 2/3 WORK DAYS	$4000.00
CROSS CUTS @ $10.00/FT 30 FT.	300.00
REPAIRS	300.00
EQUIPMENT	1600.00
SUPPLIES - POWDER FUSE, CAPS, GAS, OIL, TIMBER AT $10.00 PER FOOT FOR 200 FT.	2000.00
ASSAYS	166.00
COST OF OWNER'S KEEP	270.00
TOTAL -	$8636.00

EXHIBIT B (23 d)

NO APPLICABLE

EXHIBIT C (23-e, f + g.)

e. TUGGER	$500.00
VENTILATING SYSTEM	500.00
PICK-UP TRUCK	600.00
TOTAL -	$1600.00

14. Exhibit E (question 23-c)*

a) Is it applicable? YES

b) Sufficient data? YES

c) Reasonable? YES

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? YES

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? He is asking about 3 times ($5,000) as much as his costs are ($636.00). Is his proposed shaft and equipment program suitable and advisable? Check with applicant his cost estimates for accuracy and adjust his application to fit the figures.

Reviewed by: [illegible]

[illegible]

[illegible]

Date [illegible]

97692

310

FILE COPY
SURNAME:

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

Gowen
Johnson
Hayes

G.R.C.

OCT 23 1951

Mr. H. N. Hannah
1158 West 53rd Street
Los Angeles 37, California

Re: Docket No. DMA-1542X

Dear Mr. Hannah:

This is to inform you that your application for aid for an exploration project has been referred to the field team for further study. You will hear from Mr. H. C. Miller, Executive Officer, Field Team Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, or one of his staff when they are ready to visit your property.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

B.J. 10-23

HVWaugh:ex
10/15/51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team III
Coordinating Committee
Mr. Gowen
C.H. Johnson
Mr. McLaren
Files - DMA Docket

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

OCT 23 1951

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. Copper

Commodity 1542X

Applicant Mr. H.W.Hanna, 1158 West 53rd Street, Los Angeles 37, California

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

SIGNED

Chairman
Coordinating Committee

For the Bureau of Mines

For the Geological Survey

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1542X

To: Reports and Records Branch

From: Copper Branch, Supply Division

Date: 10/15/51

The following action has been taken this date on the above Controlled Document.

Forwarded to Executive Officer, Field Team III (Thru [redacted].Coordinating Committee)

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 15428

Commodity COPPER

Total Amount $25,000

Govt. Participation $12,500

1. Name and Address of Applicant H W. HANNA
1158 WEST 53rd ST. LOS ANGELES 37, CALIF

2. Location of Property SLATE RANGE MINING DISTRICT
SAN BERNARDINO COUNTY, CALIF.

3. Mineral or metal COPPER Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES - OWNER
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? –

Does the lease have sufficient time to run to cover a future

productive period? –

*question numbers are those of MF-103

7.. Are subordination agreements necessary? N/C

a) MF-201? –

b) MF-202 –

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies DOESN'T LIST EQUIPMENT
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* NOT TOO GOOD

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? YES - ACCESSIBILITY

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes
I don't agree. Should check on this agf

Is a field check needed on this point? No Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? – If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? YES

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? YES

f) Should more information be requested from applicant? No

g) Is a field examination necessary to complete Exhibit A? No

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished? - If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? P APPLICABLE fig NOT same

b) Sufficient data? NO If so, attach a draft.

c) Are rents and charges reasonable?

d) Is a field check needed? Yes - rentable equipment and rates

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? YES

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? YES

e) Is a field check needed? No

EXHIBIT A (21 & 22)

The applicant propose to sink a shaft 200 ft deep, the amount 30 ft X 5 cross which is 60 ft under surface

SINK SHAFT @ $60.00/DAY 3 FT/DAY 66⅔ WORK DAYS	$4000.00
CROSS CUTS @ $10.00/FT 30 FT.	300.00
REPAIRS	300.00
EQUIPMENT	1600.00
SUPPLIES – POWDER, FUSE, CAPS, GAS, OIL, TIMBER AT $10.00 PER FOOT FOR 200 FT	2000.00
ASSAYS	166.00
COST OF OWNER'S KEEP	270.00
TOTAL –	$8636.00

EXHIBIT B (23d)

NO APPLICABLE

EXHIBIT C (23-e fig.)

2 TUGGER	$500.00
VENTILATING SYSTEM	500.00
PICK UP TRUCK	600.00
TOTAL –	$1600.00

14. Exhibit E (question 23-c)*

a) Is it applicable? YES

b) Sufficient data? YES

c) Reasonable? YES

d) Field check needed? No

15: In your judgment, can the proposed work be done in the proposed time? YES

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? He is asking about 3 times ($5,000.00) as much as he outlays ($636.00). Is his proposed shaft and crosscutting program suitable and advisable. Check with applicant his cost estimates for accuracy, and adjust his application to fit the figures

Reviewed by: H. Wood, Jr.
D.P. Jackson
C.P. Johnson
J.R. Gowen

Date

97692

310 FILE COPY
SURNAME:

RWaugh

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

SEP 27 1951

a.e.e.

Mr. H. W. Hanna
1158 West 53rd Street
Los Angeles 3, California

Re: Docket No. DMA-1542X

Dear Mr. Hanna:

This is to acknowledge your letter of September 18, 1951 requesting information as to the status of your application.

As stated to you in my letter of July 16, 1951 we cannot give you any estimated time of a completion date for your application. It is being considered at present and we are doing everything possible to speed its processing.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

JF 9/27

RWaugh:rw
9-26-51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team III
Copper Branch
Files - DMA Docket

G. & C.

July 16, 1951

Re: Docket No. DMA-1542X

Mr. H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Dear Mr. Hanna:

This is to acknowledge and reply to your letter of July 10, 1951. The applications for aid for exploration are processed in the order in which they are received and at the present time yours is in the hands of one of the Defense Minerals Administration engineers. We are unable to state just how long it will take to process your application but you may be assured everything possible is being done to speed it to completion. You will hear further from us shortly.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

JBAlt:ex

Copy to: Reports and Records Branch, w.c.i.
Executive Officer, DMA Field Team, Region III w.c.i.
Copper Branch, w.c.i.
Files

July 10, 1951

Mr. J. B. Gowen, Chief
Copper Branch
United States Department Of The Interior
Defense Minerals Administration
Washington 25, D. C.

Subject: DMA-1542X
Re: Exploration Loan
Hanna Mines

Dear Mr. Gowen:

Mr. Landon F. Strobel, Executive Secretary, advised me under date of June 19, 1951, that my application had been referred to you.

Not having heard from you, I am writing to inquire if it would be possible, without inconvenience to you, to give me some idea about the length of time it would ordinarily take to act on such an application. The reason I make this inquiry is I desire to hold myself in readiness at any time you might want to communicate with me, therefore I will very greatly appreciate any helpful information or suggestions you may give me along this line.

Thanking you, I am,

Very truly yours,

/s/ H. W. Hanna

June 19, 1951

Mr. H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Subject: DMA-1542X
Re: Exploration Loan
Hanna Mines

My dear Mr. Hanna:

Receipt is acknowledged of your application and attachments of May 28, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1542X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1542X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: >Strobel-2
Files
Gowen
Lyon

Dma - 1542X

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

OFFICE OF
REGIONAL DIRECTOR

1415 APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

May 29, 1951

MBM
Records

Mr. H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Dear Mr. Hanna:

This office acknowledges your letter dated May 28, to which is attached one copy of MF-103 reproduced by the Los Angeles Chamber of Commerce. The form reproduced by the Chamber of Commerce is not complete, as it does not ask you to answer Questions 10 to 24, inclusive, or is there space provided for your signature as there is on the regular form put out by the Bureau of the Budget. Also four copies of the completed form must be filed with the Defense Minerals Administration.

Attached is a set of MF-103 forms for you to fill out. Four copies should be sent to the Defense Minerals Administration, Interior Building, Washington, D. C. -- the fifth copy is for your files. MO-5 attached covers the regulations governing Government aid in defense exploration projects.

In filling out the form you should give particular attention to Questions 21, 22 and 23. A map showing the work you propose to do also is desirable.

For your information there are attached also copies of press releases dated April 11 and May 14.

Your letter and attached partial form MF-103 are being sent to the Defense Minerals Administration in Washington where your application will be held pending receipt of four completed forms and other information which you are to supply. A copy of this letter also is going to the Washington Office.

Very truly yours,

H. C. Miller
Regional Director, Region III

Enclosures 4

Copy to Defense Minerals Administration

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-1542X

Date received 6/13/51

Participation

H. W. Hanna
1158 West 53rd Street
Los Angeles 37, California

Name and address of applicant

Date May 28, 1951

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $25,000.00

Mineral or metal Copper, Gold, Silver

Percentage of Government participation 50%

Location of mine Slate Range Mining District
San Bernardino County, California

Date of filing MF-100

DMA Docket Number, if available

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 H. N. Hanna
(Signature of authorized official)

May 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

Dma - 1542x

THE PROPERTY

Items:

10 San Bernardino County, Slate Range Mining District. Unsurveyed.
Property located from about 800 to 7,000 feet from the Hafford Mine (a patented property) as recorded in Book 304, pages 366 to 378 inclusive, of the Recorder's Office in San Bernardino County, California.

11 10 Broadway Claims and
3 Sentinel Claims - Former and present.

12 Nearest town, Trona.
Nearest shipping point by rail, Trona, 54 miles or to Searles, 78 miles.

13 Two developed springs and other springs that can be developed will furnish all water necessary.
Will use air compresser.

14 1 Cabin, two trailer houses.
Accommodate six persons.

15 By truck to Trona or Searles to Superior, Arizona to Magma Copper Co. - See answer to item 12.

16 Discovery: A miner of 40 years experience by name of William Rush did the geology work and I did the assessment work. An old tunnel existed on Broadway No.1, for 224 feet. I have extended it to 309 feet. Also a cross-cut of 35 feet. No operation or production as yet.

17 No production as yet.

18 No operation as yet.

19 There are about 500 tons of Ore on the ground assayed at $14.00 per ton.

THE EXPLORATION

20 Copper, Silver, Gold, Lead, Antimony.

21 Sink a shaft 200 feet deep, then cross-cut to Vein which is 60 feet wide on surface. Will take 3 months to complete.

22 The geological basis of the project is the daysite dyke running northerly and southerly intersecting the ryolite dyke which runs easterly and westerly approximately 100 feet southerly where I propose to sink the shaft. I have there what is called a horst. Geological maps not available. Maps of the proposed openings and assay maps and sample lists not made. Photostatic copy of Searles Lake quadrangle attached.

THE REQUIREMENTS AND COSTS

23

(a) 1 Miner and 2 muckers at $12.00 per day each. If contracted will amount to $20.00 each day. Cost will be about same under either plan but work will be done quicker under contract plan.

(b) I will supervise the work.

(c) $100.00 on repairs to buildings
$150.00 Repairs to truck
$ 50.00 Repairs on compresser

(d) None.

(e)

A tugger, about	$500.00
A ventilating system	500.00
A Pick-up truck	600.00

(f) None.

(g) Do not at this time know how to estimate rental value of equipment.

(h) See Item 24.

(i) Powder fuse, caps, gas, oil, and timber. Cost estimated at $10.00 per foot, for 200 feet - $2,000.00.

SHAFT

$60.00 per day	=	3 feet
66 2/3 work days	=	200 feet
66 2/3 x 60	=	$4,000.00

CROSSCUTS

30 feet @$10.00 per foot	$300.00
Assays	166.00
Cost of my keep	270.00

These items total $8636.00. I have estimated amount required at $25000.00, so as to have enough to complete the project under all circumstances.