DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1374X

DO NOT DETACH THIS SLIP

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

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_____

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

To:	Gowen	Date	6/1/51
To:	Lyon	Date	10/10/51
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CONTROLLED DOCUMENT

310

FILE COPY
SURNAME:

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

OCT 25 1951

Not stripped in R. R.
a, E, e

Memorandum

To: Administrative Management Division

From: Director, Supply Division

Subject: Application for exploration aid of Mr. and Mrs. T. Higgenbotham, 7302 Myrtle Avenue, Maplewood 17, Missouri, DMA-1374X, Commodity-Copper

Denial of this application is recommended by Field Team, Region VI for the following reasons:

1. Finding a large and valuable copper deposit in this part of Missouri is unlikely on the basis of geological environment, the published records of the Missouri Geological Survey and the past production history.

2. Even in the remote chance that ore should be found, it would have to be exceptionally rich in grade to stand the cost of transportation to any copper smelter, all of which are remote from the location.

3. Under the drilling conditions and costs known to exist, the amount of drilling that could be accomplished by the proposed expenditures of $4,000 would be entirely inadequate to establish the presence or absence of a worthwhile ore body.

A letter has been prepared informing the applicant of the denial.

Transmitted herewith for your disposal is the entire file consisting of the following:

3 Forms MF-103 with one answer sheet attached to each
2 DMA Reviews of Application for Exploration Assistance
1 Original and one carbon copy of letter from Mr. David Gallagher to DMA with Field Team VI Report (June 26, 1951)
1 Original letter from Mr. T. Higgenbotham dated May 28, 1951
1 Carbon copy letter from Mr. L. F. Strobel to Mr. & Mrs. T. Higgenbotham dated June 14, 1951
1 Original letter from McHenry Mosier to Mr. Gowen (June 14, 1951)
3 Carbon copies of letter from Tom Lyon to Mrs. T. Higgenbotham dated June 22, 1951
1 Form letter from Tom Lyon to Mr. Gallagher dated June 22, 1951

SIGNED

Tom Lyon, Director
Supply Division

Attachment

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team VI
J. B. Gowen
C. H. Johnson
D. MacLaren
Files- DMA Docket

RVWaugh:rw
10-11-51

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

a.g.c -

Memorandum

To: Administrative Management Division

From: Director, Supply Division

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1 Form letter from Tom Lyon to Mr. Gallagher dated June 22, 1951

For Tom Lyon, Director
Supply Division

Attachment

FILE COPY
SURNAME:

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

Gowen
Johnson

OCT 2 6 1951

Mrs. F. Higgenbotham
7302 Myrtle Avenue
Maplewood 17, Missouri

Re: Docket No. DMA-1374X

Dear Mrs. Higgenbotham:

The application submitted by you and your husband has been reviewed by the Defense Minerals Administration and we are sorry to inform you that it must be denied.

From the material included with your application and the material available to the Government it is felt that the possibility of finding a commercial grade copper ore body in that area does not justify Government participation in an exploration project at this time. It is also very doubtful that the amount of money available for the project would be sufficient to determine either the presence or the absence of a commercial orebody. We feel that the project should not be recommended at the present time, even though you are willing to invest your money in it.

The Government appreciates your desire to help the defense effort and we thank you for bringing your property to our attention.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

RVWaugh:JBGowen:ez
10/10/51

Copy to: Administrator's Reading File
Executive Officer, Region VI
J.B.Gowen
C.H.Johnson
D.MacLaren
Files - Docket DMA

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Defense Minerals Administration DATE: June 26, 1951

FROM : David Gallagher

SUBJECT: Docket No. DMA 1374X
Higgenbotham - Missouri Copper

Transmitted herewith is the Field Team Report on the subject Docket by E. T. Perkins, Bureau of Mines engineer.

It is apparent from Mr. Perkins' report that the requested exploration loan should be denied for the following reasons:

1. Finding a large and valuable copper deposit in this part of Missouri is unlikely on the basis of geological environment, the published records of the Missouri Geological Survey, and the past production history.

2. Even on the remote chance that ore should be found, it would have to be exceptionally rich in grade to stand the cost of transportation to any copper smelter, all of which are remote from the location.

3. Under the drilling conditions and costs known to exist, the amount of drilling that could be accomplished by the proposed expenditure of $4,000 would be entirely inadequate to establish the presence or absence of a worthwhile ore body.

Accordingly, it is recommended that this application be denied.

Sincerely yours,

David Gallagher

David Gallagher

Defense Minerals Administration June 26, 1951

David Gallagher

Docket No. DMA 1374X
Higgenbotham - Missouri Copper

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3. Under the drilling conditions and costs known to exist, the amount of drilling that could be accomplished by the proposed expenditure of $4,000 would be entirely inadequate to establish the presence or absence of a worthwhile ore body.

Accordingly, it is recommended that this application be denied.

Sincerely yours,

David Gallagher

DEFENSE MINERALS ADMINISTRATION

Field Team, Region 6
Joplin, Mo.

David Gallagher, U.S.G.S.
L. T. McElvenny, U.S.B.M.

Report on Docket DMA 137bX

Mr. and Mrs. T. Higginbotham

by
Edwin T. Perkins, U.S.B.M.

June 26, 1951

REPORT ON T. HIGGINBOTHAM TRACT
WASHINGTON COUNTY, MISSOURI

by Edwin T. Perkins
U. S. Bureau of Mines

INTRODUCTION

The Higginbotham tract in Washington County, Missouri, produced 115 tons of ore with an average grade of 11.37 percent copper, during a period of operation from early in September 1917 to the end of September 1918. There has been no production since. No reserves of ore were developed.

Mr. and Mrs. Higginbotham propose with a total expenditure of $4,000 to drill the property to try to discover and define an ore body.

LOCATION AND PHYSICAL FEATURES

The Higginbotham tract is a part of Old Mines Concession Survey No. 3039 which includes parts of sections 1, 2, 11, 12, 13, 14, 24, and 25 in T. 38 N., R. 2 E. It lies well toward the east part of the Ozark plateau and is along the border of what is commonly termed the St. Francois Mountains. The country is rugged with a relief of as much as 150 feet. The property can be reached by traveling on Route 21 north from Potosi, Washington County, Missouri, 8 miles, then 3/4 of a mile west.

HISTORY

The early period of the history of this area was in connection with lead mining, which gradually gave way to a more widely spread interest in barite production. The Missouri Bureau of Geology and Mines publication, The Potosi and Edgehill Quadrangle, Vol. 23, 2nd Series, describes three occurrences of copper ore having been found in shallow openings and shafts in sections 27 and 30, T. 34 N., R. 2 E. and in section 3, T. 33 N., R. 1 E., in Washington County, Missouri. There is no record of production from any of this work. The 90-foot shaft on the Higginbotham tract produced during parts of the years 1917 and 1918, 115 tons of ore containing 26,093 pounds of copper which was shipped to the American Smelting and Refining Company at Omaha, Nebraska.

ORE DEPOSITS

Material on the dumps is somewhat brecciated and cut by a network of quartz veinlets in which occasional specks of chalcopyrite may be observed. Malachite is also noted. This dump material seems to have come from surface detrital and fine-grained rhyolitic porphyry.

DEVELOPMENT

The Higginbotham shaft is inaccessible. There are no maps of any underground workings. Mining was carried on under lease by Wallace and Coleman to the 90-foot level, but there is no record that this work outlined or developed any ore reserves, nor is there any log of the formation passed through in sinking the shaft.

The Higgenbotham proposal is to diamond-drill a sufficient number of holes to outline a deposit if there is one.

The usual procedure for drilling in this area is to operate a rig with a spudding bit to the solid rock, and after setting the casing, to proceed to diamond-drill the hole. The spudding operation may be carried to a depth of from 150 to 350 feet.

A program of drilling to come within the limit of $4,000 would permit completing possibly six holes to a depth of not more than 200 feet, as the cost is from $2.15 to $2.50 a foot, depending on the accessibility of the locations of the holes to be drilled. To carry on this program a driller would either arrange to operate his rig two shifts, or to bring in two rigs with the idea of completing the program in from 6 weeks to 2 months

Drill rigs are available at Potosi to spud holes to a depth of 200 feet. If it was found desirable to drill deeper holes, a diamond-drill rig could be arranged for at the same price as for spudding, but $4,000 would very little more than give an idea of the formation in this immediate area. To accomplish an adequate drilling program a very much larger amount of money would be required.

If an adequate exploratory program developed mineable ore, the product could be hauled over graded and graveled road to the Missouri Pacific Railway at Cadet, Washington County, Missouri and shipped to the copper smelter at Ducktown, Tennessee.

As to the competency of the applicant, in any case, a qualified employee of the Bureau of Mines or U. S. Geological Survey would be required to sample the cuttings, log the hole and help plan the drilling campaign as it progressed.

Edwin T. Parking

APPROVED _____

DEFENSE MINERALS ADMINISTRATION

Field Team, Region 6
Joplin, Mo.

David Gallagher, U.S.G.S.
L. T. McElvenny, U.S.B.M.

Report on Docket DMA 1374X

Mr. and Mrs. T. Higginbotham

by
Edwin T. Perkins, U.S.B.M.

June 26, 1951

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WASHINGTON COUNTY, MISSOURI

by Edwin T. Perkins
U. S. Bureau of Mines

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As to the competency of the applicant, in any case, a qualified employee of the Bureau of Mines or U. S. Geological Survey would be required to sample the cuttings, log the hole and help plan the drilling campaign as it progressed.

Edwin T. Perkins

APPROVED _____

Defense Minerals Administration

June 26, 1951

David Gallagher

a. E. e-

Docket No. DMA 1374X
Higgenbotham - Missouri Copper

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3. Under the drilling conditions and costs known to exist, the amount of drilling that could be accomplished by the proposed expenditure of $4,000 would be entirely inadequate to establish the presence or absence of a worthwhile ore body.

Accordingly, it is recommended that this application be denied.

Sincerely yours,

David Gallagher

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

JUN 22 1951

Mr. David Gallagher
Executive Officer, DMA Field Team Region VI
Defense Minerals Administration
Joplin, Missouri

Dear Sir:

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

Docket No. DMA-1374X

Commodity Copper

Applicant Mrs. T. Higginbotham, 7302 Myrtle Avenue
Maplewood 17, Missouri

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

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

FILE COPY
SURNAME:

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

Gowen
McKnight for Rose
Moon

docket mailed to field

JUN 22 1951

Re: Docket No. DMA-1374X

Mrs. T. Higginbotham
7302 Myrtle Avenue
Maplewood 17, Missouri

Dear Mrs. Higginbotham:

This is to inform you that your application for exploration aid for your copper property near Old Mines Missouri has been referred to the Field Team for further investigation.

You should hear from Mr. David Gallagher, Executive Officer, DMA Field Team, Joplin, Missouri, or from one of his staff in the near future.

Very truly yours,

Tom Lyon, Director
Supply Division

JBGowen:jp

Copy to: Executive Officer, DMA Field Team VI (2)
Executive Secretary
Administrator's Reading File
Coordinating Committee
Mr. J. B. Gowen-Room 2522
Mr. C. J. Johnson
Mr. Mac Laren
Files

C

FILE COPY
SURNAME:

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

June 14, 1951

Mr. and Mrs. T. Higginbotham
7302 Myrtle Avenue
Maplewood 17, Missouri

Subject: DMA-1374X
Re: Exploration Loan -
Old Mines

My dear Mr. and Mrs. Higginbotham:

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

The application was assigned Docket Number DMA-1374X and referred to Mr. J. E. Gowen, Chief, Copper Branch on June 1, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1374X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel
CC: Strobel
✓File
Gowen
Lyon

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 1374X

Date received 5-31-51

Participation

Mr. & Mrs. T. Higginbotham
7302 Myrtle Ave.
Maplewood 17, Mo.

Name and address of applicant

Date 5-28-51

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $4000

Mineral or metal Copper

Percentage of Government participation 50%

Location of mine Old Mines Mo.
Washington County

Date of filing MF-100

DMA Docket Number, if available 1374X

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? Individual

*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. ~~Mr~~ see separate sheet

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. none

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)? $2000

*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. None

*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. none

*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: not in 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. ore in surface + subsoil and in veins in solid rock
    (*b*) Submit available maps and assay data. Assay sheets enclosed
    (*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? Copper
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Drill test holes

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 1 year or less
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. Some ore has been shipped

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.

Mr & Mrs. T. Higginbotham
(Name of company)

By _____
(Signature of authorized official)

May 28, 1951
(Date)

_____
(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

4. Mr. Higginbotham was part owner and operator of a barite mine and mill at Old Mines. They did strip mining and crushed and washed the ore.

10. (b) In County of Washington and State of Missouri; Part of Lot Fifteen (15) Old Mines concession Survey No. 3039; Begin at the South West corner of land, it being also the South East corner of Ben L. Boyer tract of (40) acres out of the West part of Lot 15, thence North 78° East 4560 ft. (Va 4° 30') thence North 12° West 845 ft to a corner on North side of Lot 15, thence South 78° West (Va 4° 30') along line between Lot 15 and Lot (16), 4560 ft. to Ben L. Boyers North East corner, thence South 12° East 845 ft. to beginning corner, containing 86.84 acres.

12. The property is on U.S. Highway 21, eight miles north of Potosi, 5 miles west of Cadet, which is the nearest railroad shipping point. There is a state gravel road from Cadet to Old Mines. The mine location is about 3/4 mile west of Highway 21.

13. Stream of water 3/4 mile from mine, sufficient at all seasons. Electric power line 3/4 mile from mine.

15. Could be trucked or shipped to East St. Louis, which is 75 miles away. Smelting and refining done here.

16. The smelting sheets enclosed show the only operation and results. The distance that ore had to be shipped, inadequate equipment and refusal of owner to renew lease caused suspension of operations.

23. I cannot estimate the cost.

24. As soon as a drill can be rented, operations can begin and be carried on until sufficient test holes have been made.

JUN 1 8 1951

June 14, 1951

Mr. and Mrs. T. Higginbotham
7302 Myrtle Avenue
Maplewood 17, Missouri

Subject: DMA-1374X
Re: Exploration Loan -
Old Mines

My dear Mr. and Mrs. Higginbotham:

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

The application was assigned Docket Number DMA-1374X and referred to Mr. J. W. Gowen, Chief, Copper Branch on June 1, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1374X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel
CC: Strobel
File
Gowen
Lyon

dma - 1374X

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

June 14, 1951

Memorandum

To: J. B. Gowen, Chief, Copper Branch through

Tom Lyon, Chairman, Coordinating Committee

From: Executive Officer, Bureau-Survey Field Team, Region VIII

Subject: Review of Docket DMA-1374X

In regard to the review of Docket DMA-1374X which is attached, the Field Team including Messrs. H. R. Cornwall, U. S. Geological Survey and H. L. Burmeister, U. S. Bureau of Mines, recommends that this application be referred to to the Field Team for the following information:

1. Nature of ore deposit and geologic relations including maps.

2. Availability of contract diamond drill.

3. Distance to nearest smelter that will purchase copper ore.

4. Compentency of applicant to conduct exploration.

5. Can sufficient drilling be done for $4000.00 to obtain critical data.

6. Cost estimates and specific exploration program.

McHenry Mosier
McHenry Mosier

Attachments

Note: This review was done at College Park as a service for the Washington office.
PBM

6/5/52

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 1374X

Commodity copper

Total Amount $4000

Govt. Participation $2000

1. Name and Address of Applicant Mr & Mrs T. Higginbotham, 7302 Myrtle Ave, Maplewood 17, Mo.

2. Location of Property near Old Mines, Washington Co, Mo.

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

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 yes

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 (question 5, 6, 7)

6. If applicant is a lessee, is a copy of the lease attached? not a lessee

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? no

b) MF-202 no

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 check availability of contract drill
(question 14 plus general knowledge of availability)

c) Accessibility (question 12) yes

d) Water (question 13) yes

e) Power (question 13) yes

Is a field check needed on any of these points? yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4) no

Is a field check needed on this point? yes

10. Exhibit A. (questions 21 and 22)

a) Is the project adequately described? no

If not, are there sufficient data given so that you can describe the project? no 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, MD-5? yes

If not, what part of it is?

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? none given

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

e) Are the cost estimates reasonable? none given

f) Should more information be requested from applicant? yes

g) Is a field examination necessary to complete Exhibit A? yes

11. Exhibit B (question 23-d)

a) Is it applicable? not applicable

b) If so, are sufficient data furnished? none 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? yes

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

c) Are rents and charges reasonable? none given

d) Is a field check needed? yes

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

a) Are there sufficient data? Would be contract drilling

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? No — no salary stated for supervision.

e) Is a field check needed? yes

14. Exhibit E (question 23-c)

a) Is it applicable? no

b) Sufficient data? not applicable

c) Reasonable? not applicable

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 questions? Assay data show a production from this property of 26,000 lbs of Cu from ore containing approx. 10% Cu during the period 1917-1918. We need information (including maps) on the nature & extent of this deposit and of the mine workings. Distance to nearest copper smelter should be checked. Field team should satisfy themselves that enough diamond drilling can be done for $4000. to be of value. Field team should check availability of contract diamond drill and competent supervision

Reviewed by: H P Cornwall
W J Emmons
C H Gunn
J B Gowen
D H MacLaren

Date 6/13/57

6/5/52

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 1374X

Commodity copper

Total Amount $4000

Govt. Participation $2000

1. Name and Address of Applicant Mr + Mrs T. Higginbotham, 7302 Myrtle Ave, Maplewood 17, Mo.

2. Location of Property near Old Mines, Washington Co, Mo.

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

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 yes

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 (question 5, 6, 7)

6. If applicant is a lessee, is a copy of the lease attached? not a lessee

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) NF-201? no

b) NF-202 no

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 check availability & contract drill
(question 14 plus general knowledge of availability)

c) Accessibility (question 12) yes

d) Water (question 13) yes

e) Power (question 13) yes

Is a field check needed on any of these points? yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4) no

Is a field check needed on this point? yes

10. Exhibit A. (questions 21 and 22)

a) Is the project adequately described? no

If not, are there sufficient data given so that you can describe the project? no 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? none given

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

e) Are the cost estimates reasonable? none given

f) Should more information be requested from applicant? yes

g) Is a field examination necessary to complete Exhibit A? yes

11. Exhibit B (question 23-d)

a) Is it applicable? not applicable

b) If so, are sufficient data furnished? none 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? yes

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

c) Are rents and charges reasonable? none given

d) Is a field check needed? yes

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

a) Are there sufficient data? Would be contract drilling.

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? No — no salary stated for supervision.

e) Is a field check needed? yes

14. Exhibit E (question 23-c)

a) Is it applicable? no

b) Sufficient data? not applicable

c) Reasonable? not applicable

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 questions? Assay data show a production from this property of 26,000 lbs of Cu from ore containing approx. 10% Cu during the period 1917-1918. We need information (including maps) on the nature & extent of this deposit and of the mine workings. Distance to nearest copper smelter should be checked. Field team should satisfy themselves that enough diamond drilling can be done for $4,000 to be of value. Field team should check availability of contract diamond drill & competent supervision.

Reviewed by: HR Cornwall
[illegible]
CH Ruson
DKY Macharen

Date 6/13/57 JB Gower

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 1374X

Date received 5-31-51

Participation

Mr. & Mrs. T. Higginbotham
7302 Myrtle Ave.
Maplewood 17, Mo.

Name and address of applicant

Date 5-28-51

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $4000

Mineral or metal Copper

Percentage of Government participation 50%

Location of mine Old Mines, Mo.
Washington County

Date of filing MF-100

DMA Docket Number, if available 1374X

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? Individual

*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. see separate sheet

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. none

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)? $2000

*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. none
*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. None
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: not in 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. Ore in surface + subsoil and in veins in solid ro
    (*b*) Submit available maps and assay data. Assay sheets enclosed.
    (*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? Copper
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Drill test holes

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 1 year 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. Some ore has been shipped

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.

Mr. and Mrs. T. Huggenbotham
(Name of company)

By _____
(Signature of authorized official)

May 28, 1951
(Date)

_____
(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

4. Mr. Higginbotham was part owner and operator of a barite mine and mill at Old Mines. They did strip mining and crushed and washed the ore.

10.(b) In county of Washington and State of Missouri: Part of Lot Fifteen (15) Old Mines concession Survey No. 3039; Begin at the South West corner of Lot (15), thence North 78° East Va 4°30' 2063 ft. to the beginning corner of land, it being also the South East corner of Ben L. Bayer tract of (40) acres out of the West part of Lot (15), thence North 78° East 4560 ft (Va 4°30') thence North 12° West 845 ft. to a corner on North side of Lot No 15 thence South 78° West (Va 4°30') along line between Lot 15 and Lot 16, 4560 ft. to Ben L. Bayer's North East corner; thence South 12° East 845 ft to beginning corner, containing 86.84 acres.

12. The property is on U.S. Highway 21, eight miles north of Potosi; 5 miles west of Cadet which is the nearest railroad shipping point. There is a state gravel road from Cadet to Old Mines. The mine location is about 3/4 mile west of Highway 21.

13. Stream of water 3/4 mile from mine, sufficient at all seasons. Electric power line 3/4 mile from mine.

15. Could be trucked or shipped to East St. Louis which is 75 miles away. Smelting and refining done here.

16. The smelting sheets enclosed show the only operation and results. The distance the ore had to be shipped, inadequate equipment, and refusal of owner to renew lease caused suspension of operations.

23. I cannot estimate the cost.

24. As soon as drill can be rented, operations can begin and be carried on until sufficient test holes have been made.

DEPARTMENT OF THE ARMY
Defense Nuclear Administration
FILMED

MAY 31 1951

LANDON F. STROBEL
Executive Secretary

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 1324X

Date received 5-31-51

Participation

Mr + Mrs. T. Higginbotham
7302 Myrtle Ave.
Maplewood 17, Mo.

Name and address of applicant

Date 5-28-51

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost 4000

Mineral or metal Copper

Percentage of Government participation 50%

Location of mine Near Old Mines, Mo.
Washington County

Date of filing MF-100

DMA Docket Number, if available 1324X

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? Individual

*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. Mr Higginbotham was coowner and operator of a strip mine for barite one for 2 years

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. none

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)? $2000

*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. None
*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. None
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.
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    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
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(2) Milling				
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    (*a*) Describe the ore or mineral deposits briefly. ore in surface & sub-soil and in veins in solid rock.
    (*b*) Submit available maps and assay data. Assay data enclosed
    (*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? Copper
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Drill test holes.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 1 year 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. Some ore has been shipped.

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.

Mr & Mrs T. Higginbotham
(Name of company)

By _____
(Signature of authorized official)

May 28, 1957
(Date)

_____
(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

10. (b) following described land, situated in the County of Washington and State of Missouri, to wit: Part of Lot Fifteen (15) Old Mines Concession Survey No. 3039; Begin at the South West corner of Lot (15) Old Mines Concession, thence North 78° East Va 4° 30' 2063 ft. to the beginning corner of land to be leased, it being also the South East corner of Ben L. Boyer Tract of (40) acres out of the West part of Lot (15), thence North 78° East 4560 feet (Va 4° 30'), thence North 12° West 845 ft. to a corner on North side of Lot No. 15, thence South 78° West (Va 4° 30') along line between Lot 15 and Lot 16, 4560 ft. to Ben L. Boyers North East corner, thence South 12° East 845 ft. to beginning corner, containing 86.84 acres.

11. No present or former name of the property
12. The property is on U.S highway 21, eight miles north of Potosi, 5 miles west of Cadet which is the nearest railroad shipping point. There is a state gravel road from Cadet to Old Mines. The mine location is about 3/4 miles west of highway 21.
13. Stream of water 3/4 mile from mines, sufficient at all seasons. Power line 3/4 mile from mine.
14. None
15. Could be trucked to East St. Louis which is 75 miles away. Smelting and refining done here.
16. The smelting sheets enclosed show the only operation and results. The distance the ore had to be shipped, inadequate equipment and refusal of owner to renew lease caused suspension of operations.
17 Not in production
18. Ore in surface soil and in veins in solid rock.
19 -
20 Copper
21. Drill test holes - completed 1 yr.
23. I cannot estimate the cost.
24. As soon as drill can be rented operations can begin and be carried on until sufficent test holes have been made.

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 1374X

Date received 5-31-51

Participation

Mr. and Mrs. T. Higginbotham
7302 Myrtle Ave.
Maplewood 17, Mo.

Name and address of applicant

Date 5-28-51

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $4000

Mineral or metal Copper

Percentage of Government participation 50%

Location of mine Old Mines Mo.
Washington County

Date of filing MF-100

DMA Docket Number, if available 1374X

INSTRUCTIONS

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THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*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. see separate sheet

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. none

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)? $2000

*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. none

*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. none

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: not in 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. Ore in surface & subsoil and in veins in solid rock.
    (*b*) Submit available maps and assay data. Assay sheets enclosed
    (*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? Copper
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Drill test holes
    NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 1 year or less for completion
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. Some ore has been shipped.

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.

Mr & Mrs. T. Higginbotham
(Name of company)

By _____
(Signature of authorized official)

May 28. 1951
(Date)

_____
(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

4. Mr. Higginbotham was part owner and operator of a barite mine and mill at Old Mines. They did strip mining and crushed and washed the ore.

10.(b) In County of Washington and State of Missouri: Part of Lot Fifteen (15) Old Mines concession Survey No. 3039; Begin at the South West corner of land, it being also the South East corner of Ben L. Boyer tract of (40) acres out of the West part of Lot (15), thence North 78° East 4560 ft. (Va 4°30') thence North 12° West 845 ft. to a corner on North side of Lot No. 15, thence South 78° West (Va 4°30') along line between Lot 15 and Lot (16) 4560 ft. to Ben L. Boyer's North East corner, thence South 12° East 845 ft. to beginning corner, containing 86.84 acres.

12. The property is on U.S Highway 21, eight miles north of Potosi; 5 miles west of Cadet which is the nearest railroad shipping point. There is a State gravel road from Cadet to Old Mines. The mine location is about 3/4 mile west of Highway 21.

13. Stream of water 3/4 mile from mine, sufficient at all seasons. Electric power line 3/4 mile from mine.

15. Could be trucked or shipped to East St. Louis, which is 75 miles away. Smelting and refining done here.

16. The smelting sheets enclosed show the only operation and results. The distance the ore had to be shipped, inadequate equipment and refusal of owner to renew lease caused the suspension of operations.

23. I cannot estimate the cost.

24. As soon as drill can be rented, operations can begin and be carried on until sufficient test holes have been made.

7302 Myrtle Ave.
Maplewood 17, Mo.
May 28, 1951

DMA -
1374 X

James Boyd, Administrator
Defense Minerals Administration
New Interior Building
Washington 25, D.C.

Dear Mr. Boyd;

We have filled in the application blanks for government aid in exploration of the copper deposit on our property. Some of the answers are vague and incomplete because we have had no experience with such exploration and cannot answer definitely.

Since copper is so essential at the present time, it seems that now is the time to determine if the ore deposite is extensive enough to warrant development. We do not want to waste the government's or our own money but after talking with the Field Manager at the Bureau of Mines in Rolla, Mo. it seems that test can be made with comparative little cost.

I am enclosing the smelter sheets showing the amount and quality of ore taken from the mine. I have talked with Mr. Wallace, the man who leased the mine and operated it. Most of the answers given in the application are from information given by him. The ore was taken from a 90 ft. shaft which went to water level and was tunneled for a short distance. The small pump they had was not able to carry off the water at 90 ft. Mr Wallace said the greater the depth the better the copper.

I have inherited this property from my mother who died one year ago. If this mine is of any value I would like to have it developed. If the government inspectors think it is worth investigating we are willing to invest our money also in exploration projects.

Sincerely yours.
Mrs T. Higginbotham

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
MARCEL F. SIMONEL
Executive Secretary

5M-1-9-18K-B Co.

AMERICAN SMELTING AND REFINING CO.
OMAHA PLANT

OMAHA, NEB., July 31st, 1918. 191

Settlement for 4630#-4537# lbs. Ore

Lot No. 1289 Received 7/24/18 per Car NYC 218790

For account Wallace & Coleman,

as follows: Cadet, Mo.

ASSAY PER TON	NEW YORK QUOTATIONS 7/31/18
Silver, ozs.	Lead, Copper
Lead, % Copper, % 27.64	BASIS Cu. dry less 3-1/2¢ plus 1/4 over 14¢.
Moisture, % 2.0 Tare	$5.00 Treatment.

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper 1254 Lbs. @ .1944375 per lb. $ 243.82

Gross Value 243.82

Freight

Treatment 11.34

11.34

E. & O. E.

Net Proceeds, $232.48

AMERICAN SMELTING AND REFINING CO.

W. T. Page- Manager.

69.50
232.46
93.28

5M-1-9-18K-B Co.

AMERICAN SMELTING AND REFINING CO.
OMAHA PLANT

OMAHA, NEB., July 31st, 1918. 191

Settlement for 52170#-46640# lbs. Ore

Lot No. 1279 Received 7/24/18. per Car NYC 218790

For account Wallace & Coleman,

as follows: Cadet, Mo.

PER TON	NEW YORK QUOTATIONS
ozs. Silver, ozs.	Silver, $ Lead, $ Copper, $ 5925
Lead, % Copper, % 10%	BASIS
Moisture, % 10.6 Tare	Cu.dry less 4¢ plus 1/4 over 14¢.
	$5.00 Treatment.

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper 4664 Lbs. @ 1894375 per lb. $ 883.54

Gross Value 883.54

Car 17159

Freight 95.37

Treatment 116.60

188.58

E. & O. E.

Net Proceeds, 694.96

War Tax 2.16

$692.80

AMERICAN SMELTING AND REFINING CO.

W. T. Page- Manager.

5M-1-9-18K-B Co.

AMERICAN SMELTING AND REFINING CO.

OMAHA PLANT

OMAHA, NEB., Sept.26th, 1918. 191

Settlement for 36500#-34018# lbs. Ore

Lot No. 1429 Received 9/20/18 per Car QM&S 5076

For account Wallace & Coleman,

as follows: Cadet, Mo.

ASSAY PER TON	NEW YORK QUOTATIONS 9/25/18.
Gold, ozs. Silver, ozs. 0.60 - 00	Silver,$ Lead,$ Copper,$.25925
Lead, % Copper, % 6.84-5.54	BASIS Cu.dry less 7¢. Ag. no pay.
Moisture, % 6.8 Tare	$5.00 Treatment.

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper 1,865 Lbs. @ .18925 per lb. $ 356.74

Gross Value $356.74

DEDUCTIONS

Freight

Treatment $85.05

85.05

E. & O. E.

Net Proceeds, $271.69

AMERICAN SMELTING AND REFINING CO.

W. T. Page- Manager.

5M-1-9-18K-B Co.

AMERICAN SMELTING AND REFINING CO.
OMAHA PLANT

OMAHA, NEB., Sept. 26th, 1919. 191

Settlement for 22200#-24002# lbs. Ore

Lot No. 1453 Received 9/20/19 per Car GRS 3076

For account [illegible]

as follows: [illegible]

ASSAY PER TON	NEW YORK QUOTATIONS 9/23/19.
Gold, ozs. Silver, ozs. 0.60-0	Silver, $ Lead, $ Copper, $ .25325
Lead, % Copper, % 14.50-13.20	BASIS
Moisture, % 17.0 Tare	Cu. dry lb. ss 6-1/2¢.
	Ag. no. pay.
	$5.00 Treatment.

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper [illegible] @ [illegible] per lb. $[illegible]

Gross Value [illegible]

DEDUCTIONS

219790 1.65

Freight 103.01

Treatment 60.01

E. & O. E.

166.49

Net Proceeds, [illegible]

3.20

$445.78

AMERICAN SMELTING AND REFINING CO.

W. T. Page Manager.

Please return

7-17

AMERICAN SMELTING & REFINING CO.
OMAHA PLANT

OMAHA, NEB., Oct. 11th, 1917. 191

Settlement for 26,100 = 22,237 lbs. Ore

Lot No. 682 = 1 Received ~~IRC x 60518~~ per Car IRC 60518

For account GEO. WALLACE, Cadet, Mo.

as follows:

Gold, ozs. Silver, ozs.

Lead, % Copper, % 10.81

Moisture, % 14.8 Tare

NEW TIONS 10/

BASIS

As no pay Cu. Less 1¢ + ¼¢ for each 1¢ over 14¢

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper 2,404 @ 17125 per lb. $ 411.68

Gross Value 411.68

DEDUCTIONS

Freight

Treatment

E. AND O. E.

Net Proceeds, $ 411.68

AMERICAN SMELTING AND REFINING CO.

W. T. Page. Manager.

Please return to —
Mrs T. Higginbotham
7302 Myrtle Ave. Maplewood, Mo

5M-1-9-18K-B Co.

AMERICAN SMELTING AND REFINING CO.
OMAHA PLANT

OMAHA, NEB., April 15th. 1918.

Settlement for 47200#- 40875# lbs. Ore

Lot No. 922- Received 3/5/18 per Car UP 30705

For account Wallace & Coleman.

as follows: Cedot, Mo.

ASSAY PER TON	NEW YORK QUOTATIONS
Silver, ozs.	Silver, $ Lead, $ Copper, $ .23625 3/11/18.
Lead, % Copper, % 5.46	BASIS
Moisture, % 13.4 Tare	Cu.dry less 5¢ plus 1/4¢ over 14¢
	Treatment $6.00

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper 2232 lbs. @ .1606875 per lb. $ 358.65

Gross Value $358.65

DEDUCTIONS

Freight $56.46

Treatment ~~212~~ $102.19

$159.04

E. & O. E.

Net Proceeds, $199.61

War Tax 1.71

$197.90

AMERICAN SMELTING AND REFINING CO.

W. E. Page- G Manager.

5M-1-9-18K-B Co.

AMERICAN SMELTING AND REFINING CO.
OMAHA PLANT

OMAHA, NEB., July 14th, 1918. 191

Settlement for 63100#-61964# lbs. Ore

Lot No. 1215 Received 7/6/18 per Car D&L 17159

For account Wallace & Coleman,

as follows: Cadet, Mo.

ASSAY PER TON	NEW YORK QUOTATIONS
Gold, Silver, ozs.	7/12/18. Silver, $99-5/8 Lead, $ Copper 25925
Lead, % Copper, % 16.89	BASIS Ag. no pay.
Moisture, % 1.8 Tare	Cu.dry less 6-1/4¢.
	Treatment $5.00

Total net ozs. Gold @ per oz. $

" " " Silver @ per oz. $

" " lbs. Lead @ per cwt. $

" " " Copper 10466 Lbs. @ .19675 per lb. $ 2059.19

Gross Value $2059.19

Freight 112.00

Treatment 154.91

266.91

E. & O. E.

Net Proceeds, $1792.28

War Tax 3.36

$1788.92

AMERICAN SMELTING AND REFINING CO.

W. T. Page Manager.

17889

V1141374A