Not a representative application. Proposed program rather impractical and poorly supported by the evidence presented. Mostly prospecting by geochemical and geophysical methods.

Tin

M. Ching

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1752x

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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Routing Slip

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CONTROLLED DOCUMENT

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

AUG 10 1951

G. E. C.
Marr, M. H.

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Tin property , Cartron and Sierra Counties, New Mexico
DMA docket 1752x

Under date of June 27, 1951, W. R. Ransome, c/o Geochemical Surveys, P. O. Box 6508, Medical Center Station, Dallas, Texas, submitted the subject application for an exploration project in the sum of $234,000 for a government participation of $210,600 (90%).

Attached hereto find letter of even date addressed to W. R. Ransome, Geochemical Surveys, denying his application on the grounds of lack of basic evidence of the indicated presence of workable tin deposits.

Enclosed herewith is the complete docket, comprised by the following:

(a) Three sets of form MF-103, submitted letter and copy, two copies of tin propecting syllabus and map, 1 copy of lease.

(b) Memorandum from E. T. McKnight.

Weston Bourret.
Weston Bourret, Chief
Minor and Rare Metals Branch

Approved:
Tom Lyon
Director, Supply Division

DMA docket files
330
FILE COPY
SURNAME:

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

Gordon
Bourret
Stewart
McKnight

Memorandum

AUG 10 1951

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Tin property , Cartron and Sierra Counties, New Mexico
DMA docket 1752x

Under date of June 27, 1951, W. R. Ransome, c/o Geochemical Surveys, P. O. Box 6508, Medical Center Station, Dallas, Texas, submitted the subject application for an exploration project in the sum of $234,000 for a government participation of $210,600 (90%).

Attached hereto find letter of even date addressed to W. R. Ransome, Geochemical Surveys, denying his application on the grounds of lack of basic evidence of the indicated presence of workable tin deposits.

Enclosed herewith is the complete docket, comprised by the following:

(a) Three sets of form MF-103, submitted letter and copy, two copies of tin prepecting syllabus and map, 1 copy of lease.

(b) Memorandum from E. T. McKnight.

/s/ Weston Bourret BJ 8/10
Weston Bourret, Chief
Minor and Rare Metals Branch

Approved:
Tom Lyon

Director, Supply Division

EGordon/mh
cc: Adm. Read. File
Reports and Records
Lyon
Rennick
Field Team IV
McKnight, USGS
Bourret
DMA docket files

330 DMA docket files

FILE COPY
SURNAME:

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

Gordon
Bourret
Rennick
McKnight
Rennick

A.E.C.

Mr. W. R. Ransone
P. O. Box 6508
Medical Center Station
Dallas, Texas

AUG 10 1951

Re: DMA docket 1752x
Tin prospecting Sierra
and Catron Counties, N. Mexico

Dear Mr. Ransome:

Your application for an exploration project, DMA 1752x in the sum of $234,000 has been received by the Minor and Rare Metals Branch of the Supply Division.

We regret to advise that after careful study and consideration the DMA must deny your application. The fundamental premise on which any such proposal should be based, i. e. strong indications of the presence of economic tin deposits, has not been established. On the contrary, we believe that the area has been sufficiently examined at enough different points to demonstrate that the most favorable conditions known therein for occurrence of tin, namely along the zones of alteration connected with steeply dipping fracture zones in rhyolite, at best contain but scattered cassiterite stringers so widely separated as to preclude profitable exploration on any appreciable scale, even at very high, premium prices.

If and when evidence to the contrary is presented, we shall be glad to reconsider the matter. Also, it should be noted that exploration projects may be granted only on ground in proponent's control.

Yours very truly,

Tom Lyon BJ 8-10

Tom Lyon, Director,
Supply Division

EGordon/mh
cc: Adm. Read. File
Reports and Records
Lyon
McKnight
Rennick
Bourret
DMA docket files
Field Team IV

330

DMA docket files

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

Mr. J. A. Hanscom
P. O. Box 6508
Medical Center Station
Dallas, Texas

AUG 10 1951

Re: DMA docket 1752x
Air prospecting Sierra
and Catron Counties, N. Mexico

Dear Mr. Hanscom:

Your application for an exploration project, DMA 1752x in the sum of $234,000 has been received by the Minor and Rare Metals Branch of the Supply Division.

We regret to advise that after careful study and consideration the DMA must deny your application. The fundamental premise on which any such proposal should be based, i. e. strong indications of the presence of economic tin deposits, has not been established. On the contrary, we believe that the area has been sufficiently examined at enough different points to demonstrate that the most favorable conditions known therein for occurrence of tin, namely along the zones of alteration connected with steeply dip ing fracture zones in rhyolite, at best contain but scattered cassiterite stringers so widely separated as to preclude profitable exploration on any appreciable scale, even at very high, premium prices.

If and when evidence to the contrary is presented, we shall be glad to reconsider the matter. Also, it should be noted that exploration projects may be granted only on ground in proponent's control.

Yours very truly,

Tom Lyon

Tom Lyon, Director,
Supply Division

EMordon/mh
cc: Adm. Asst. File
Reports and Records
Lyon
McKnight
Kennick
Lourret
DMA docket files
Field Team IV

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

July 30, 1951

Memorandum

To: Mr. Weston Bourret

From: Mr. E. T. McKnight

Subject: DMA 1752X - Geochemical Surveys proposed prospecting for tin by geochemical and geophysical methods in the tin bearing area of Sierra and Catron Counties, New Mexico.

I recommend that this application be denied on the grounds that a basic principle justifying the use of geochemical and geophysical prospecting in an area has not been established, namely, that there should be good geologic reason for suspecting workable mineral deposits in the area selected for such study. I believe the character of the tin occurrence in this area is well enough known from direct observation at many points to establish that the most favorable conditions for occurrence, along the zones of alteration connected with steeply dipping fracture zones in rhyolite, can produce at best only scattered stringers containing tin but so widely separated as to hold no hope for profitable recovery even at exhorbitant premium prices. Geochemical work may show that tin is present over a wide area, but we know that already. We know by visual and exact chemical tests made at many points that have been opened up just how much tin is available and how it occurs, and this knowledge hasn't led us to a workable ore deposit. It seems to me that an analysis of soil weathered from such occurrences would be even less valuable ~~than~~ in searching for workable deposits; and the fact that we would have this diffuse and inexact evidence over a much wider area would be no advantage.

Edwin T. McKnight

Edwin T. McKnight
Geologist

dma - 1752 X

GEOCHEMICAL SURVEYS
3806 CEDAR SPRINGS ROAD
DALLAS, TEXAS

MAILING ADDRESS
P. O. BOX 6508
MEDICAL CENTER STATION

TELEPHONE
LAKESIDE 5145

June 27, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 28 1951
LANDON F. STRUBEL
Executive Secretary

Dr. James Boyd
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Dr. Boyd:

RE: Proposed Tin Prospecting Program
Catron and Sierra Counties, New Mexico

With this letter I am sending you the following:

1. Syllabus of a tin prospecting program proposed for the area shown on the
2. Map of portions of Catron and Sierra Counties, New Mexico (where non-commercial deposits of tin have been found).
3. Copy of Lease from J. R. Canning to M. H. Marr.
4. Form M F 103.
5. U.S. G. S. Bulletin 922-M (1940)

Although the lease from Canning to Marr (who is associated with us in this joint venture) covers a much larger area, it applies specifically to about 5,000 acres of mineral fee owned by Canning. So far as we have been able to determine, this includes by far the greater part of the privately owned mineral fee in the considered area. The other important mineral rights there are those which are federal or state owned; most of these appear to be open at present.

We have filled out Form M F 103 to the best of our ability. However, due to the shortage of time and the press of circumstances, some of the material requested, particularly (8) "current financial status, etc.", has not been included; this can be supplied upon request. Form M F 100 has not been filled out since the copy originally supplied appears to have been mislaid.

Although they are not attached hereto, we have pertinent case treatments of mineral prospecting by soil analysis and radore; while these case treatments are available for private display and discussion, they have not been released for general distribution. The soil analysis case treatments are across lead deposits (in Missouri) owned by the St. Joseph Lead Company, and were made with that company's permission and approval; we consider that these data are as significant with respect to mineral prospecting as we have found them to be with

respect to petroleum prospecting. The radore case treatments are typical of those surveys which have been made for the St. Joseph Lead Company, the National Lead Company, and the Tennessee Copper Company; in these applications of the radore method, it has demonstrated its noteworthy usefulness in outlining and identifying ore bodies prior to their being test drilled.

I wish to suggest that, at your early convenience, say within the next two weeks, some of our group be granted the privilege of a personal interview with you to discuss further the merits of this proposed tin prospecting program. At that time we will be able to show you, and interested members of your staff, these soil analysis and radore case treatments which, in our considered judgment, illustrate the applicability of these methods to the tin prospecting program which we are proposing, and justify your serious consideration thereof.

Very truly yours,

W. R. Ransone

W. R. Ransone

cc - By regular mail less copy
of lease and U.S.G.S. Bulletin
922-M (1940) and less Form M F 103

cc - M. H. Marr

cc - J. M. Forgotson

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

AUG 10 1951

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Tin property, Cartron and Sierra Counties, New Mexico
DMA docket 1752

Under date of June 27, 1951, W. K. Ransome, c/o Geochemical Surveys, P. O. Box 6193, Medical Center Station, Dallas, Texas, submitted the subject application for an exploration project in the sum of $234,000 for a government participation of $210,600 (90%).

Attached hereto find letter of even date addressed to W. K. Ransome, Geochemical Surveys, denying his application on the grounds of lack of basic evidence of the indicated presence of workable tin deposits.

Enclosed herewith is the complete docket, comprised by the following:

(a) Three sets of form MF-103, submitted letter and copy, two copies of tin prospecting syllabus and map, 1 copy of lease.

(b) Memorandum from F. T. McKnight.

/s/ Weston Bourret

Weston Bourret, Chief
Minor and Rare Metals Branch

Approved:
Tom Lyon

Director, Supply Division

Mordon/mh
cc: Adm. Read. File
Reports and Records
Lyon
Kennick
Field Team IV
McKnight, USGS
Bourret
DMA docket files

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-1752X

Date received 6/28/51

Participation

Marr, M. H.
Forgotson, J. M.
Ransone, W. R.
Pittman, C. V. A.
McDermott, Eugene
Rosaire, E. E.
Reagor, E. C.

c/o
Geochemical Surveys
3806 Cedar Springs
Dallas, Texas

Name and address of applicant

Date June 27, 1951

FILL IN THIS BLOCK

Date of application June 27, 1951

Estimated cost $ 234,000

Mineral or metal Tin

Percentage of Government participation 90%

Location of ~~mine~~ prospect area Catron & Sierra Counties, New Mexico

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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 28 1951
LANSON F. SHEW
Secretary

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.

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.

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(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

THE APPLICANT

1. Joint venture - see attached application form and syllabus

2. " " " " " "

4. " " " " " "

5. Lessee

6. Can be furnished upon request.

7. Lease attached and is in good standing.

8. Can be furnished upon request

9. Applicants are prepared to invest ten per cent of cost of project (estimated at $234,000) which is sufficient to pay their part of cost.

10. See attached lease and map.

11. Available upon request.

THE EXPLORATION

20. Tin

21. See attached Tin syllabus

22. See attached U. S. G. S. Bulletin 922-M

THE REQUIREMENTS AND COSTS

23. See attached syllabus

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-1752X

Date received 6/28/51

Participation

Name and address of applicant

Marr, M. H.
Forgotson, J. M.
Ransone, W. R.
Pittman, C. V. A.
McDermott, Eugene
Rosaire, E. E.
Reagor, E. C.

c/o
Geochemical Surveys
3806 Cedar Springs
Dallas, Texas

Date June 27, 1951

FILL IN THIS BLOCK

Date of application June 27, 1951

Estimated cost $ 234,000

Mineral or metal Tin

Percentage of Government participation 90%

Location of ~~mine~~ prospect area Catron & Sierra Counties, New Mexico

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.

DEPARTMENT OF THE
Defense Minerals
RECEIVED
JUN 28 1951
LANDON F.
Acting Secretary

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)?

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16—64067-1

THE PROPERTY

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*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.

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State amount of power to be used, rate per hour or other cost, and source.

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CERTIFICATION

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

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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*Same as footnote on page 1.

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

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1. Joint venture - see attached application form and syllabus

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4. " " " " " "

5. Lessee

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8. Can be furnished upon request

9. Applicants are prepared to invest ten per cent of cost of project (estimated at $234,000) which is sufficient to pay their part of cost.

10. See attached lease and map.

11. Available upon request.

THE EXPLORATION

20. Tin

21. See attached Tin syllabus

22. See attached U. S. G. S. Bulletin 929-M

THE REQUIREMENTS AND COSTS

23. See attached syllabus

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-1752X

Date received 6/28/51

Participation

Marr, M. H.
Forgotson, J. M.
Ransone, W. R.
Pittman, C. V. A.
McDermott, Eugene
Rosaire, E. E.
Reagor, E. C.

c/o
Geochemical Surveys
3806 Cedar Springs
Dallas, Texas

Name and address of applicant

Date June 27, 1951

FILL IN THIS BLOCK

Date of application June 27, 1951

Estimated cost $ 234,000

Mineral or metal Tin

Percentage of Government participation 90%

Location of ~~mine~~ prospect area Catron & Sierra Counties, New Mexico

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.

JUN 28 1951

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.

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(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

THE APPLICANT

1. Joint venture - see attached application form and syllabus
2. " " " " " "
4. " " " " " "
5. Lessee
6. Can be furnished upon request.
7. Lease attached and is in good standing.
8. Can be furnished upon request
9. Applicants are prepared to invest ten per cent of cost of project (estimated at $234,000) which is sufficient to pay their part of cost.
10. See attached lease and map.
11. Available upon request.

THE EXPLORATION

20. Tin
21. See attached Tin syllabus
22. See attached U. S. G. S. Bulletin 922-M

THE REQUIREMENTS AND COSTS

23. See attached syllabus

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-1752X

Date received 6/28/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 28 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Marr, M. H.
Forgotson, J. M.
Ransone, W. R.
Pittman, C. V. A.
McDermott, Eugene
Rosaire, E. E.
Seager, E. C.

c/o
Geochemical Surveys
3806 Cedar Springs
Dallas, Texas

Date June 27, 1951

FILL IN THIS BLOCK

Date of application June 27, 1951

Estimated cost $ 234,000

Mineral or metal Tin

Percentage of Government participation 90%

Location of ~~xxxx~~ prospect area Catron & Sierra Counties, New Mexico

Date of filing MF-100

DMA Docket Number, if available

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(Name of company) (Signature of authorized official)

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(Date) (Title)

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21. See attached Tin syllabus
22. See attached U. S. G. S. Bulletin 923-H

THE ENGINEERS AND COSTS

23. See attached syllabus

dma 1752 X

GEOCHEMICAL SURVEYS
3806 CEDAR SPRINGS ROAD
DALLAS, TEXAS

MAILING ADDRESS
P. O. BOX 6508
MEDICAL CENTER STATION

TELEPHONE
LAKESIDE 5145

Originals sent via air mail special delivery
June 27, 1951.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 29 1951
LANDON F. STROBEL
Executive Secretary

dma 1752X

GEOCHEMICAL SURVEYS
3806 CEDAR SPRINGS ROAD
DALLAS, TEXAS

June 27, 1951

Dr. James Boyd
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Dr. Boyd:

RE: Proposed Tin Prospecting Program
Catron and Sierra Counties, New Mexico

With this letter I am sending you the following:

1. Syllabus of a tin prospecting program proposed for the area shown on the
2. Map of portions of Catron and Sierra Counties, New Mexico (where non-commercial deposits of tin have been found).
3. Copy of Lease from J. R. Canning to M. H. Marr.
4. Form M F 103.
5. U S.G. S.Bulletin 922-M (1940)

Although the lease from Canning to Marr (who is associated with us in this joint venture) covers a much larger area, it applies specifically to about 5,000 acres of mineral fee owned by Canning. So far as we have been able to determine, this includes by far the greater part of the privately owned mineral fee in the considered area. The other important mineral rights there are those which are federal or state owned; most of these appear to be open at present.

We have filled out Form M F 103 to the best of our ability. However, due to the shortage of time and the press of circumstances, some of the material requested, particularly (8) "current financial status, etc.", has not been included; this can be supplied upon request. Form M F 100 has not been filled out since the copy originally supplied appears to have been mislaid.

Although they are not attached hereto, we have pertinent case treatments of mineral prospecting by soil analysis and radore; while these case treatments are available for private display and discussion, they have not been released for general distribution. The soil analysis case treatments are across lead deposits (in Missouri) owned by the St. Joseph Lead Company, and were made with that company's permission and approval; we consider that these data are as significant with respect to mineral prospecting as we have found them to be with

respect to petroleum prospecting. The radore case treatments are typical of those surveys which have been made for the St. Joseph Lead Company, the National Lead Company, and the Tennessee Copper Company; in these applications of the radore method, it has demonstrated its noteworthy usefulness in outlining and identifying ore bodies prior to their being test drilled.

I wish to suggest that, at your early convenience, say within the next two weeks, some of our group be granted the privilege of a personal interview with you to discuss further the merits of this proposed tin prospecting program. At that time we will be able to show you, and interested members of your staff, these soil analysis and radore case treatments which, in our considered judgment, illustrate the applicability of these methods to the tin prospecting program which we are proposing, and justify your serious consideration thereof.

Very truly yours,

W. R. Ransone

W. R. Ransone

cc - By regular mail less copy
of lease and U.S.G.S. Bulletin
922-M (1940) and less Form M F 103

cc - M. H. Marr

cc - J. M. Forgotson

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 29 1951
LANDON F. STROBEL
Executive Secretary

MINING LEASE

THIS AGREEMENT made and entered into this the 26th day of June, 1951, by and between M. H. Moss of Dallas, Texas -, hereinafter called "Lessor" (whether one or more) and J. R. Canning of Eden, Texas - hereinafter called "Lessee",

W I T N E S S E T H:

1.

Lessor, in consideration of the sum of Ten Dollars ($10.00) cash paid, the receipt of which is hereby acknowledged, and of the royalty herein provided for, and of the covenants and agreements hereinafter contained, does by these presents hereby grant, lease and let exclusively unto said Lessee the hereinafter described land with the sole and exclusive right to Lessee to do geophysical, geochemical, geological or other examination or examinations, test, explore, prospect, drill for, produce, mine, extract, process, take, treat, care for and remove all metal and metal bearing ores and all minerals, excepting only oil, gas and coal, and to store same upon said land during the term hereof, with the right of ingress and egress at all times and the right to construct, erect, maintain, use, repair, replace thereon and remove therefrom all buildings, shafts, hoists, machines, pumps, boilers, engines, telephone and telegraph lines, railroad tracks, roads, bridges, canals, power houses, or other plants, residences, offices, shops, machinery, equipment and fixtures for prospecting, drilling, mining, producing, extracting, processing, taking, treating, caring for, removing and storing such metal and metal bearing ores and

TRACT I: SW 1/4 NE 1/4 Sec. 1, Twp. 10 S, Rge. 11 W, N.M.P.M., Sierra County, New Mexico, containing 40 acres, more or less;

TRACT II: All of Sec. 14, Twp. 7 S, Rge. 9 W; NW 1/4 NW 1/4 Sec. 26, Twp. 7 S, Rge. 10 W; SW 1/4 SW 1/4 Sec. 23, All of Sec. 29, Lots 1, 2, 3, 4, E 1/2 W 1/2, E 1/2 (All) Sec. 30, E 1/2, E 1/2 W 1/2, Lots 1, 2, 3, 4, (All) Sec. 31, NW 1/4 SW 1/4 Sec. 34, Twp. 7 S, Rge. 11 W; Sections 2, 3, 4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 22, 23, 27, 28, 29, 30, 31, 32, Twp. 8 S, Rge. 10 W; All of Sec. 13, NE 1/4 SW 1/4 Sec. 18, All of Sec. 23, Twp. 8 S, Rge. 11 W; NE 1/4 SE 1/4 Sec. 21, S 1/2 NE 1/4, N 1/2 SE 1/4 Sec. 31, NW 1/4 NE 1/4 Sec. 32, Twp. 8S, Rge. 12 W; NE 1/4 SE 1/4 Sec. 35, Twp. 8 S, Rge. 13 W; NW 1/4, W 1/2 NE 1/4, Lot 1, SE 1/4 NE 1/4, S 1/2 Sec. 5, Lots 2, 3, 4, 5, 6, 7, NE 1/4 NE 1/4, S 1/2 NE 1/4, SE 1/4 NW 1/4, E 1/2 SW 1/4, SE 1/4 Sec. 6, Sections 7, 8, 17, E 1/2, E 1/2 W 1/2, Lots 1, 2, 3, 4 Sec. 18, E 1/2, E 1/2 W 1/2, SW 1/4 NW 1/4, Lots 1, 3, SW 1/4 SW 1/4 Sec. 19, Sec. 20, S 1/2 NE 1/4, W 1/2 SE 1/4 Sec. 22, W 1/2 SW 1/4, SW 1/4 NW 1/4 Sec. 29, E 1/2, E 1/2 W 1/2, Lots 1, 2, 3, 4 Sec. 30, N 1/2 NW 1/4 Sec. 32, Twp. 9 S, Rge. 10 W; Sections 1, 12, 13, S 1/2, S 1/2 NE 1/4 Sec. 14, S 1/2 SE 1/4 Sec. 15, S 1/2 NE 1/4, NW 1/4 SE 1/4, NE 1/4 SW 1/4, S 1/2 SW 1/4 Sec. 21, NW 1/4 NW 1/4, SE 1/4 NW 1/4 Sec. 22, Sections 24, 25, NW 1/4 SW 1/4, S 1/2 NW 1/4, NW 1/4 SE 1/4, E 1/2 NE 1/4 Sec. 29, SE 1/4 SW 1/4, SW 1/4 SE 1/4, NE 1/4 SE 1/4 Sec. 30, SW 1/4, Lot 2 Sec. 31, Twp. 9 S, Rge. 11 W; SW 1/4 NW 1/4 Sec. 32, Twp. 10 S, Rge. 11 W; NW 1/4 SW 1/4 Sec. 8, SE 1/4 NW 1/4 Sec. 15, SW 1/4 NE 1/4 Sec. 33, Twp. 9 S, Rge. 12 W; Lots 1, 2, N 1/2 SW 1/4 NE 1/4, SE 1/4 NW 1/4, SW 1/4 SW 1/4 NE 1/4, SE 1/4 NE 1/4 NW 1/4 Sec. 1, SW 1/4 SE 1/4 Sec. 10, Twp. 10 S, Rge. 12 W, N.M.P.M., Catron County, New Mexico, containing 29,218,05 acres, more or less.

There shall be excluded from this lease any land in which J. R. Canning does not own a mineral interest.

J R C.

minerals; housing employees and any and all other rights and privileges necessary, incident to or convenient for the economical operation of said land and adjoining or neighboring lands operated by Lessee for the above said purposes. The land which is the subject of this lease is situated in the Counties of Sierra and Catron, State of New Mexico, and is described as follows:

2.

This lease shall be for a period of fifteen (15) years from the date hereof (called "primary term"), and as long thereafter as any of the leased substances are or can be produced from said land.

3.

The royalty to be paid to Lessor is one-tenth (1/10) of the value of all mined ore and minerals in its natural state at the mine at the time it is marketed.

4.

Lessee agrees and covenants that within five (5) years from date hereof it will make or cause to be made a geophysical, geochemical, geological or other examination or examinations of the above described land with the right to drill prospect holes, sink shafts and pits on said land for the presence of a deposit or deposits of ores containing one or more of the above described metals, the extent and duration of such examination or examinations to be at the sole discretion and judgment of Lessee.

At the expiration of said five (5) year period Lessee agrees to promptly deliver to Lessor a written recordable release of such portion or portions of the above described land, if any, on which Lessee has made or caused to be made an examination or examinations, as above provided for, and which does not in the good faith opinion of Lessee contain a commercial deposit of any of the substances covered by this lease.

5.

All taxes levied on severance, mining, storing, marketing or reserves of metal bearing ores and minerals shall be due and payable one-tenth (1/10) by Lessor and nine-tenths (9/10) by Lessee. Lessee shall have free use of coal and water from said land for all operations conducted by it hereunder.

6.

If at any time, and from time to time, and for any reason whatsoever Lessee is of the opinion that further mining operations hereunder are not economically feasible, Lessee may discontinue same and pay to Lessor at the rate of One Hundred Dollars ($100.00) per year, payable quarterly, commencing ninety (90) days after reassation of such operations, for the time such operations are suspended, and upon such payment it shall be considered that mining operations were conducted on said land continuously during such time or times of suspension.

7.

Lessee may at any time execute and deliver to Lessor or place of record a release or releases covering any portion or portions of the above described land and thereby surrender this lease as to such portion or portions and be relieved of all obligations as to the acreage surrendered, but all lands so released shall remain subject to easements for rights of way necessary or convenient for Lessee's operations on the land retained by it.

8.

If Lessor owns a less interest in the above described land than the entire interest therein, then the royalty herein provided shall be paid to Lessor only in the proportion which Lessor's interest bears to the entire interest.

9.

The rights of either party hereunder may be assigned in whole or in part and the provisions hereof shall extend to their heirs, legal representatives, successors, and assigns, but no change or division in ownership of the land or royalties, however accomplished, shall operate to enlarge the obligation or diminish the rights of Lessee. No sale or assignment by Lessor shall be binding on Lessee until Lessee shall be furnished by registered U. S. mail with a certified copy of recorded instrument evidencing same.

10.

When mining or other operations, or compliance with any requirements of this lease, express or implied, are delayed or interrupted or prevented by lack of or delay in obtaining water, labor or material, or by fire, storm, flood, war, rebellion, insurrection, riot, strike, differences with workmen, breakage or failure of pipe lines, machinery or equipment, or as a result of any order, requisition or necessity of the government, or by the requirements of any statute, regulation, rule or order enacted or issued by any legislative body, or any official, commission, regulatory body or agency, State or Federal, claiming the right to enact or issue same, or as the result of any cause whatsoever beyond the control of Lessee, the time of such delay or interruption shall not be counted against Lessee in computing any period of time established or required by this lease for the performance of any act, express or implied, herein required of Lessee, nor shall Lessee be subject or liable for cancellation of this lease or for any damages

whatsoever, anything in this lease to the contrary notwithstanding. Non-compliance, delay in compliance, or incomplete compliance by Lessee with any provisions of this lease, express or implied, or delay resulting from any of the causes hereinabove set out in this Paragraph shall not be considered a default on Lessee's part and shall not render Lessee liable for any loss, damage, or injury whatever on account thereof or liable for cancellation of this lease. Should mining or other operations temporarily cease or be prevented on said land on account of any of the causes hereinabove set out in this Paragraph, this lease shall not terminate on that account but, on the contrary, it will be considered that mining operations were conducted on said land continuously during such cessation for said cause.

11.

Lessor does for Lessor and for Lessor's heirs, executors and administrators covenant with Lessee, its successors and assigns, that Lessor is lawfully seized in fee simple of said premises, that they are free from all encumbrances and that Lessor has a good right to lease and demise the same as aforesaid; that Lessor will, and Lessor's heirs, executors and administrators shall warrant and defend the same to the said Lessee, its successors and assigns, forever against the lawful claims of all persons, and agrees that Lessee shall have the right at any time to redeem for Lessor, by payment, any mortgage, taxes or other liens on the above described lands, in the event of default of payment by Lessor, and be subrogated to the rights of the holder thereof. In case of payment of any such mortgage, taxes or other liens by Lessee, in addition to the right of subrogation herein granted, Lessee shall also have the right to retain any royalty which may become due Lessor hereunder and to repay itself therefrom, and the retention of

such royalty by Lessee shall have the same effect as if paid to the Lessor in whose behalf payment of any mortgage, taxes or other lien was made.

12.

Lessee shall have the right to accept leases or conveyances from others owning, or claiming to own, interests in the land, ores or minerals covered hereby adverse to the rights of Lessor herein and Lessee shall also have the right to cause others owning any interests in the land, ores or minerals covered hereby to join in the execution of this lease and shall also have the right to accept co-lessor agreements from such persons owning any interests in said land, ores or minerals covered hereby, ratifying, confirming and adopting this lease in its entirety.

WITNESS the execution hereof the day and year first above written.

J R Canning

M. H. Mark

SINGLE ACKNOWLEDGMENT

THE STATE OF TEXAS,
COUNTY OF Dallas

BEFORE ME, the undersigned, a Notary Public in and for said County and State, on this day personally appeared M. H. Mark known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 26th day of June A. D. 1951.

(L. S.)

Notary Public in and for Dallas County, Texas

to me known to be the person described in, and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal the day and year in this certificate above written.

Notary Public in and for the County of Dallas, State of Texas.

STRASBURGER, PRICE, KELTON, MILLER AND MARTIN

Lma - 17552 X

MINING LEASE

Strasburger, Price, Kelton, Miller
and Martin

ATTORNEYS AND COUNSELORS
300 GULF STATES BLDG.
DALLAS 1, TEXAS