Mining Division
Date Rec'd.
APR 14 1952
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINING DIVISION
REGION IV

Arizona-New Mexico Branch
[redacted]
Box 4097
UNIVERSITY STATION

TUCSON, ARIZONA

April 11, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : DMA Docket 1819X, Joe E. Moffett's Mid-Day Lead-Zinc Lode, Orogrande District, Otero County, N. Mex.

Enclosed are original and five copies of the exploration contract for the above, which is being returned unsigned. As you will note, Mr. Moffett has cancelled his application for an exploration loan.

Walter R. Storms

Walter R. Storms

CC C. A. Anderson
DMA-1819X
DF

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Arizona-New Mexico Branch
SOUTHWESTERN EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

MINING DIVISION
REGION IV

TUCSON, ARIZONA

March 18, 1952

REGISTER- Return Receipt Requested

Re: DMA Docket 1819X, Mid-Day Lead-Zinc Lode, Orogrande Dist., Otero Co., N. Mex.

Mr. Joe E. Moffett
1102 Vermont Ave.
Alamogordo, N. Mex.

My dear Mr. Moffett:

Some time ago, Mr. J. H. Soule' of our former Silver City, New Mexico office sent you copies of an exploration contract for work on your Mid-Day claim near Orogrande. As Mr. Soule' did not hear from you, he again wrote you on February 12, asking about your proposed work, but to date has heard nothing from you.

As we have had to close our Silver City office because of lack of funds, all New Mexico DMA work now is being handled from this office.

If you have decided not to go ahead with the proposed work on the Mid-Day claim, will you please return the contracts to me with a letter cancelling your application for an exploration loan? We then can drop this project from our files.

Sincerely yours,

Walter R. Storms

Walter R. Storms, Chief
Arizona-New Mexico Branch

U. S. BUREAU OF MINES
MINING DIVISION
APR 11 1952
TUCSON, ARIZONA

April 9th, 1952

Mr Walter R.Storms;

This is your authority to cancel our application for an exploration loan on the Mid-Day Claim.

Joe E Moffett

Joe E.Moffett
P.O.Box 843
Alamogordo, New Mexico.

MF-200
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and[2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. R. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Neve, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows:[3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1089, in Sec. 10, T.22 S., R.8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes:[4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: .....

(*b*) ~~That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for[5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of[6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $1,250.00, which is 50 percent of the agreed estimated total cost of this project, $2,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:

	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Track	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

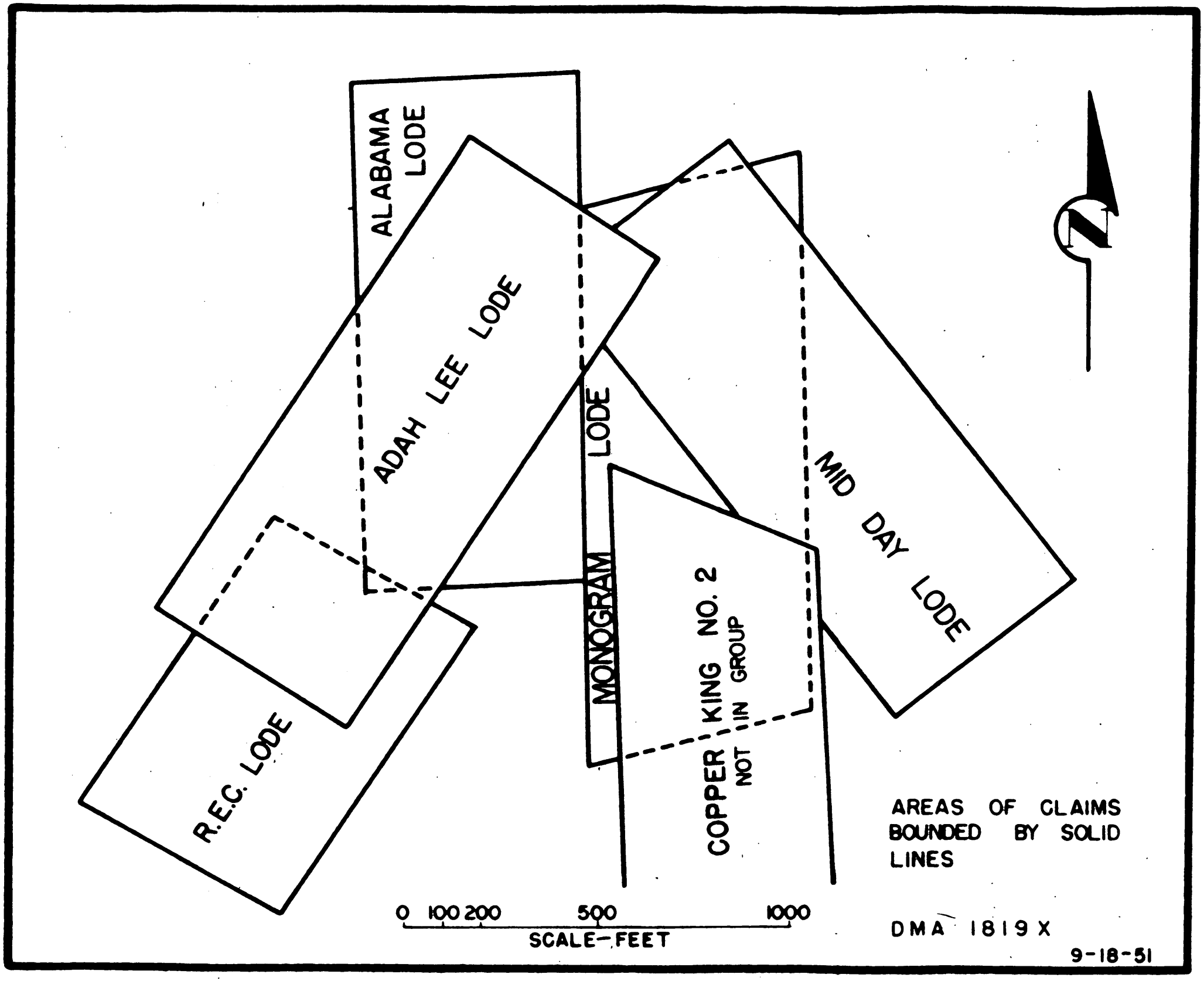

FIGURE 2.—CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

MF-200
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195___, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. R. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Neve, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows: [3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1089, in Sec. 10, T.22 S., R.8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: _____

(*b*) ~~That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

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[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
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[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

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Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

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Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Track	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

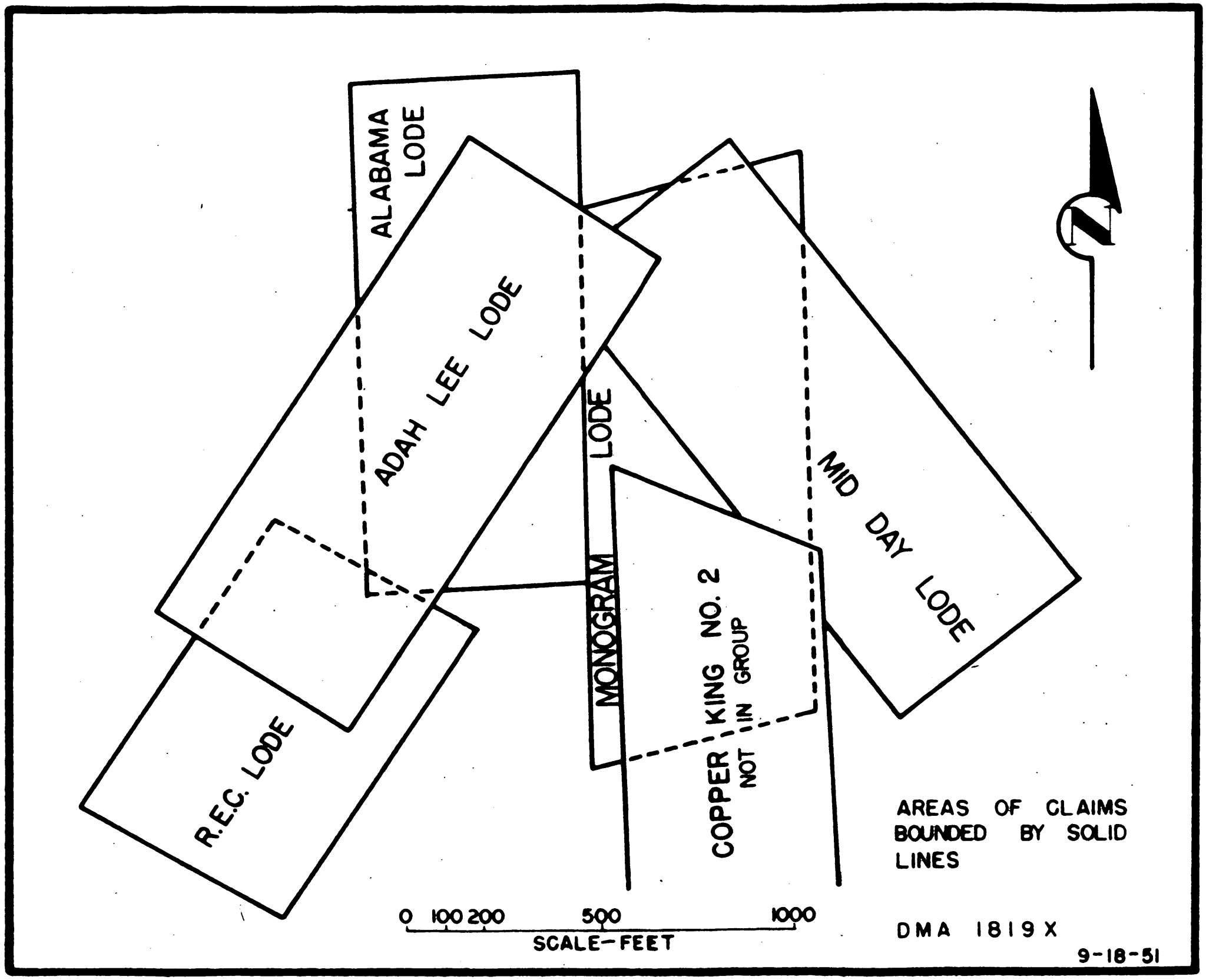

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

MF-200
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. R. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Neve, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

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with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: _____

(*b*) [redacted]

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $1,250.00, which is 50 percent of the agreed estimated total cost of this project, $2,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Track	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

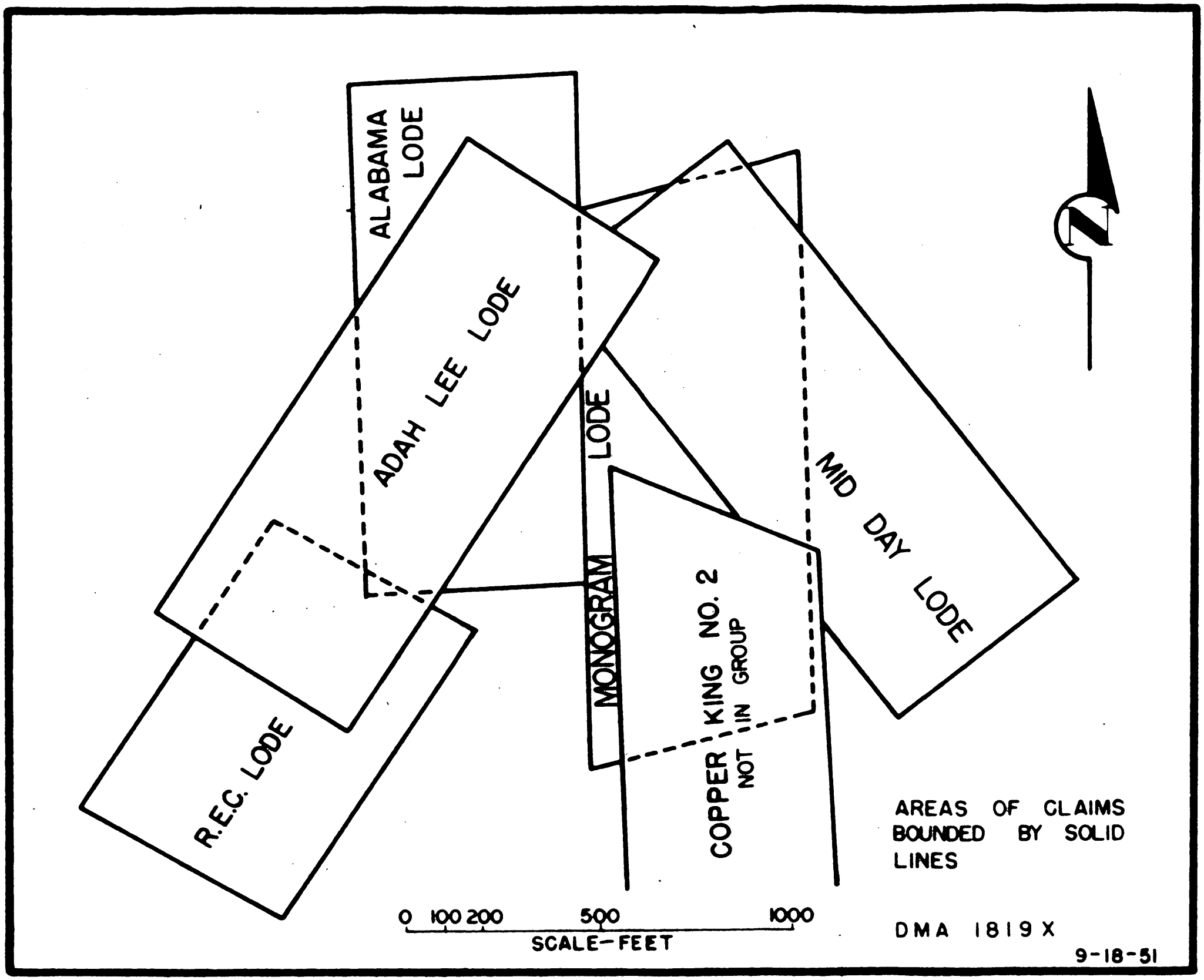

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

MF-200
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. E. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Neve, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows: [3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1089, in Sec. 10, T.22 S., R.8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: _____

(*b*) ~~[illegible]~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $1,250.00, which is 50 percent of the agreed estimated total cost of this project, $2,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Track	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

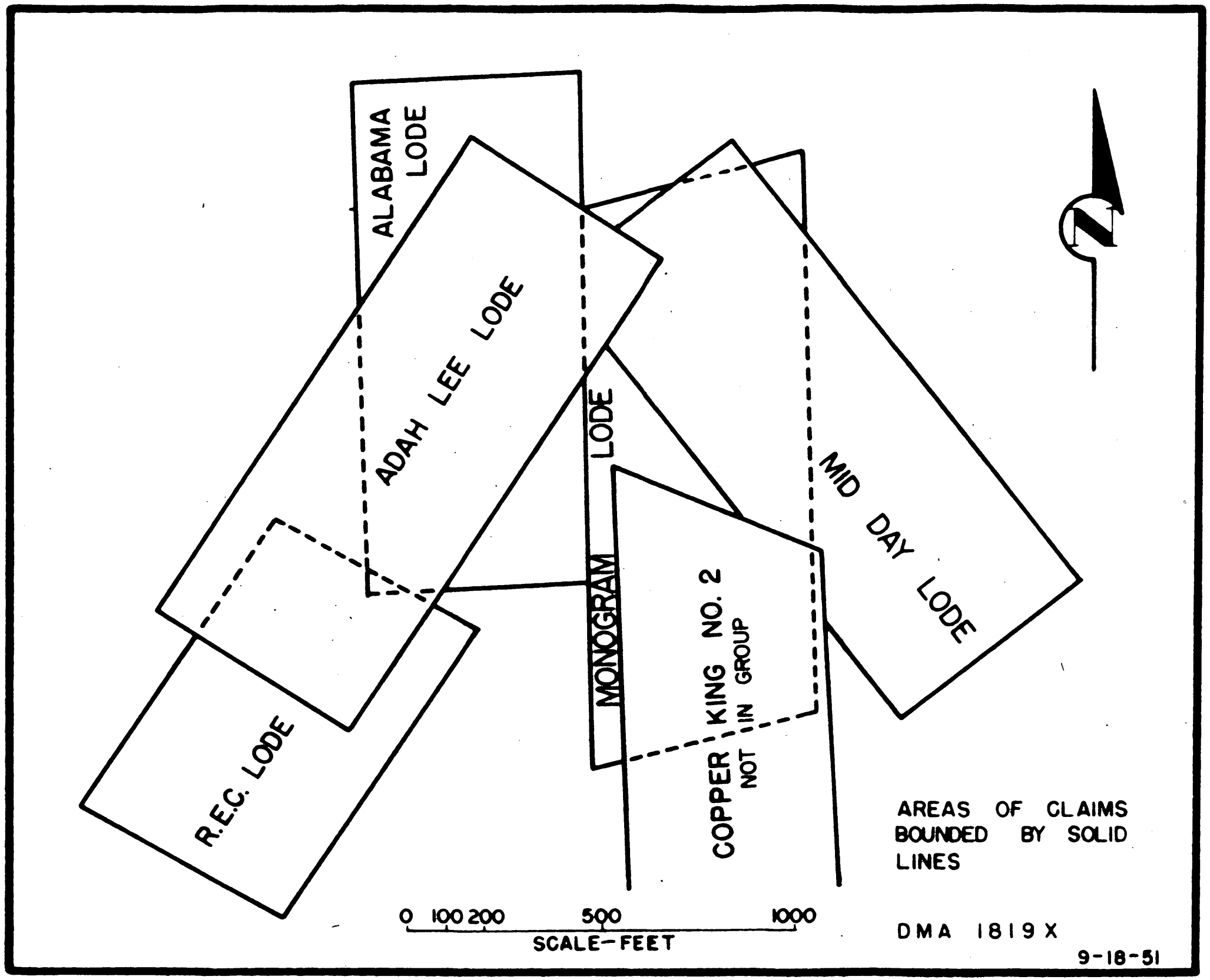

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

MF-28
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and[2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. R. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Hawe, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Ball, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows:[3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1089, in Sec. 10, T.22 S., R.8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes:[4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: _____

(*b*) ~~That he is a lessee in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for[5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of[6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts; all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

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7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

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11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

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Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:

	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Truck	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Reserve:

None.

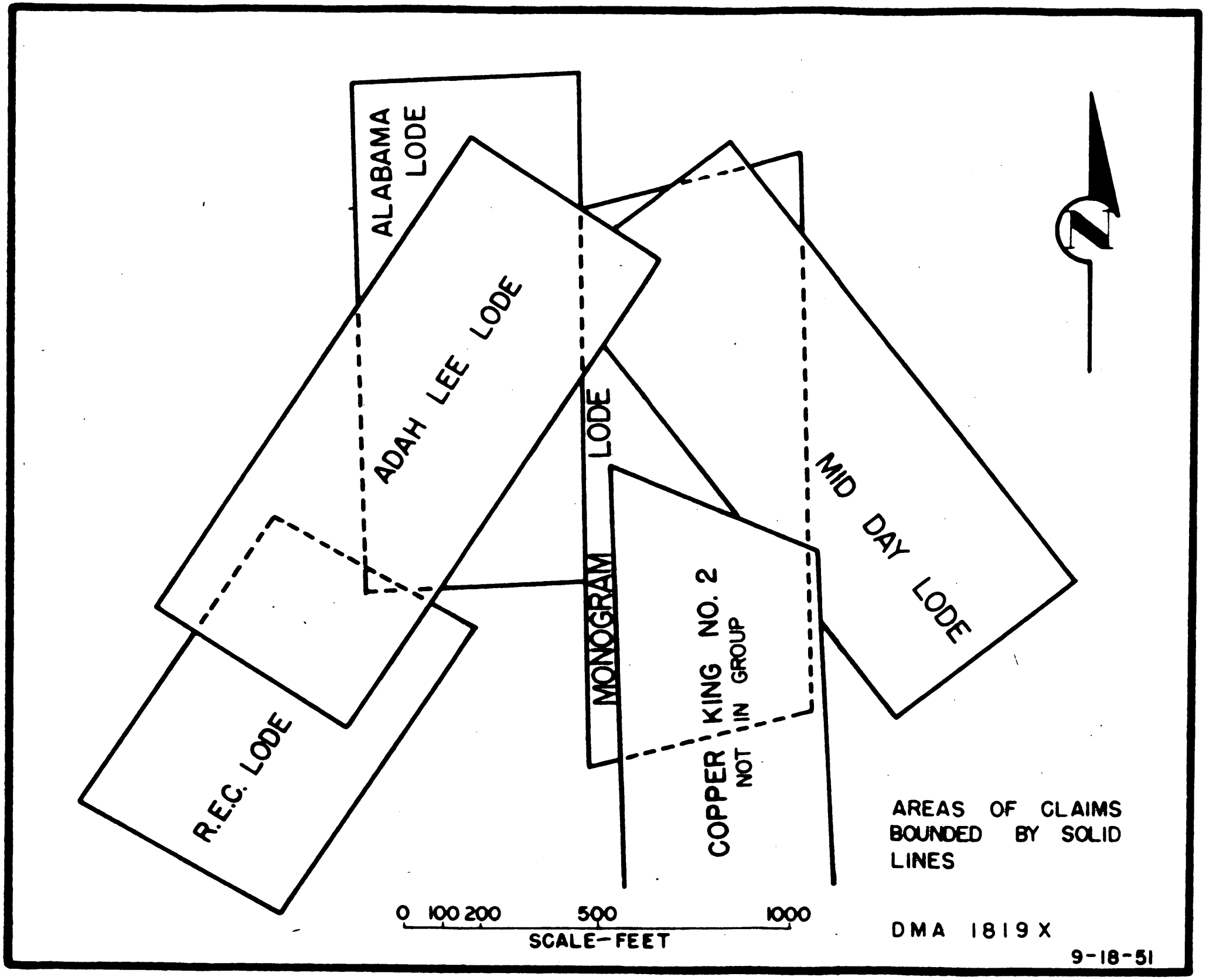

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

MF-200
(June 1951)

Docket No. DMA 1819r
Commodity Zinc, Copper lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. L. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Kane, 1103 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Vaud, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows: [3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1109, in Sec. 10, T.22 S., R.8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: _____

(*b*) ~~That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of ---50--- percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $1,250.00, which is ---50--- percent of the agreed estimated total cost of this project, $2,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:

	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Truck	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

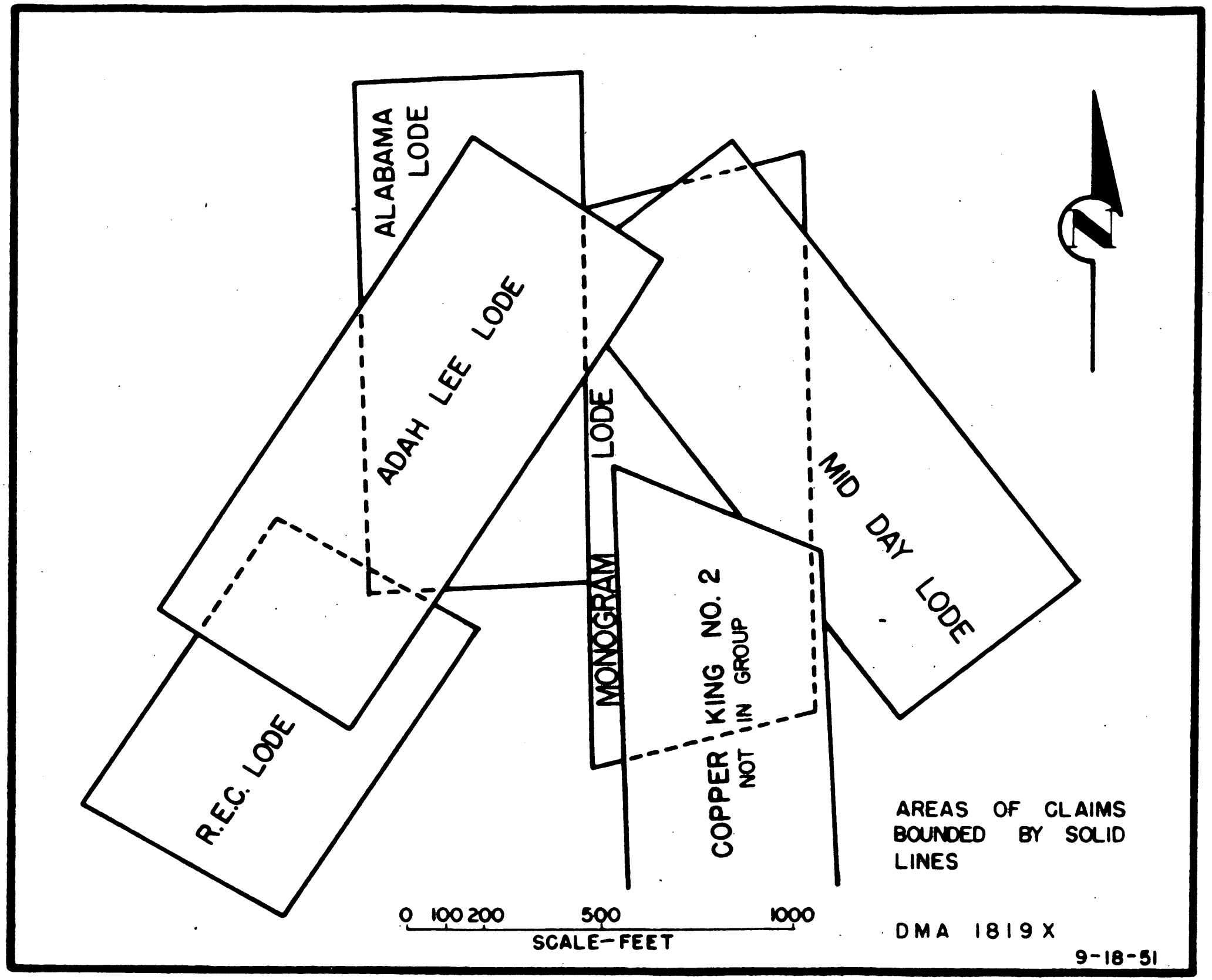

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

MF-200
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper, Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

COPY

EXPLORATION PROJECT CONTRACT[1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and[2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. R. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Neve, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows:[3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1089, in Sec. 10, T.22 S., R. 8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes:[4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: .....

(*b*) ~~That he is a lessee in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for[5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of[6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

MF-200
(June 1951)

Docket No. DMA-1819X
Commodity Zinc, Copper Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

COPY

EXPLORATION PROJECT CONTRACT [1]

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11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

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13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $1,250.00, which is 50 percent of the agreed estimated total cost of this project, $2,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

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Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

MF-200
(June 1951)

Docket No. DMA 1819X
Commodity Zinc, Copper, Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Joe E. Moffett, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Eva E. R. Shipley, 1102 Vermont Ave., Alamogordo, New Mexico; Mrs. Edwina K. Neve, 1108 Vermont Ave., Alamogordo, New Mexico, and Mrs. Mary M. Bell, Weed, New Mexico, a partnership, Joe E. Moffett, Manager hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of New Mexico, County of Otero described as follows: [3] The Alabama Group of Claims, consisting of the Mid Day Lode, Alabama Lode, Adah Lee Lode, R.E.C. Lode, and Monogram Lode, all in Mineral Survey No. 1089, in Sec. 10, T.22 S., R. 8 E., in the Silver Hill (Orogrande) Mining District.

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: .....

(*b*) [redacted]

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] zinc, copper, lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] three (3) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

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[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

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13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $1,250.00, which is 50 percent of the agreed estimated total cost of this project, $2,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

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U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

MF-200
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Docket No. DMA 1819X
Commodity Zinc, Copper, Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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COPY

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(Operator)

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MF-200
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Docket No. DMA 1819X
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DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

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THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$800.00
Rental of equipment	560.00
Supplies	1,140.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 145 c.f.m.	$ 390.00
Tugger hoist with 800 feet of cable	75.00
Rock drill, hammer and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$810.00
Rental of equipment	560.00
Supplies	1,130.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

To be rented:	Monthly Rental
Compressor, 165 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

To be purchased:

None.

To be furnished by operator:

None.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving two short drifts each approximately 30 feet in length. One drift should be driven from the point marked Sample No. 1 on figure 4 attached, and driven to follow the mineralization which is approximately east. The other drift should be driven from the point marked Sample No. 2 on figure 4 attached, and driven to follow the mineralization which is approximately north.

A claim map is attached.

The estimated working time is 2 months.

The following costs are estimated:

Labor and supervision	$830.00
Rental of equipment	560.00
Supplies	1,110.00
Total cost of project	$2,500.00

Fixtures and Improvements:

None.

Operating Equipment:

In hand:	Monthly Rental
Compressor, 365 c.f.m.	$ 390.00
Tugger hoist with 200 feet of cable	75.00
Rock drill, hoses and pressure tank	75.00
Mine car	20.00
Total	$560.00

In to purchase:

None.

In to furnished by operator:

None.

Supplies:

Drill steel and bits	$ 75.00
Track	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply hauling	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

Supplies:

Drill steel and bits	$ 75.00
Truck	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	70.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

Supplies:

Drill steel and bits	$ 75.00
Truck	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laborers	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Repairs:

None.

Supplies:

Drill steel and bits	$ 75.00
Truck	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	160.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tent for laboratory	65.00
Analyses	30.00
Small tools	200.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $10.00 per day for 27 days	$ 810.00

Rehabilitation and Restoration:

None.

Supplies:

Drill steel and bits	$ 75.00
Truck	200.00
Pipe	80.00
Explosives	80.00
Gasoline and oil	150.00
Freight on supplies	140.00
Water and supply haulage	50.00
Carbide	50.00
Tank for laboratory	65.00
Analyses	30.00
Small tools	300.00
Total	$1,130.00

Labor and Supervision:

3 Men @ $20.00 per day for 27 days	$ 820.00

Rehabilitation and Reclamation:

None.

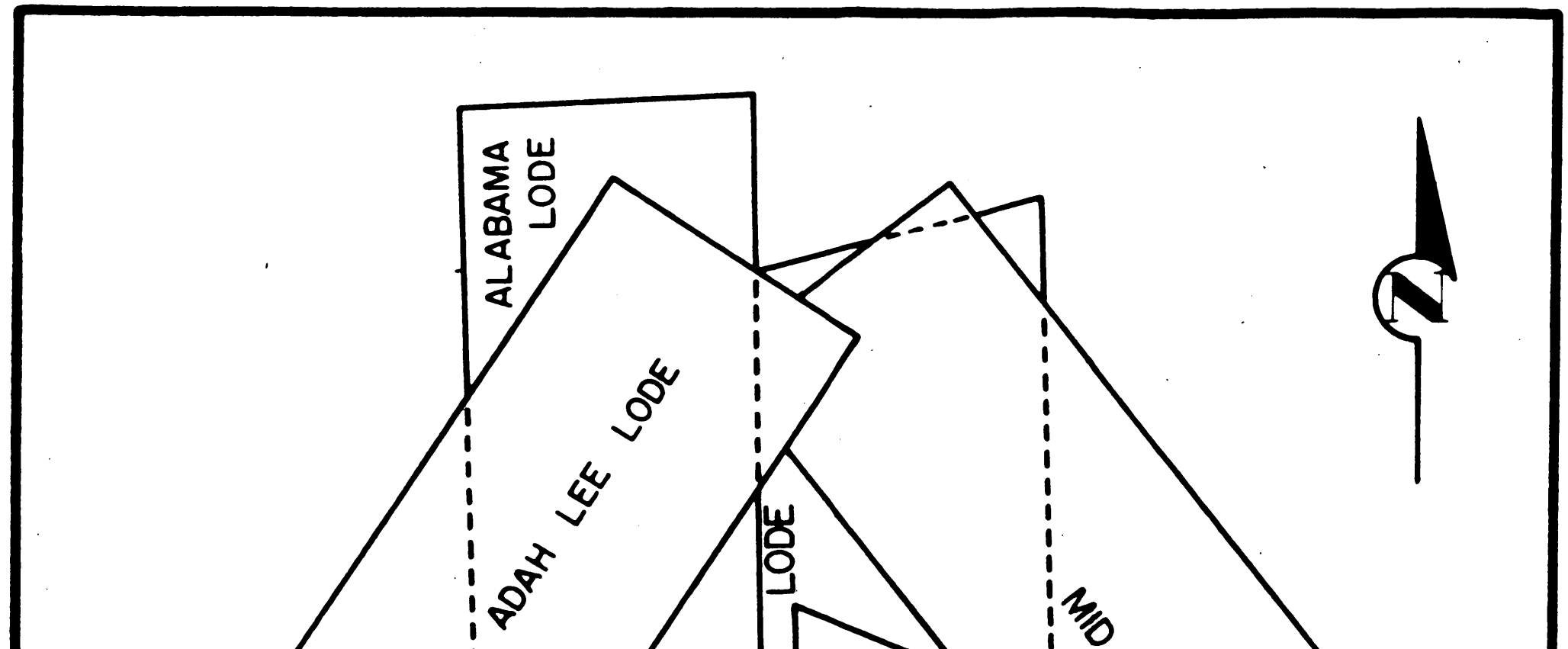

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

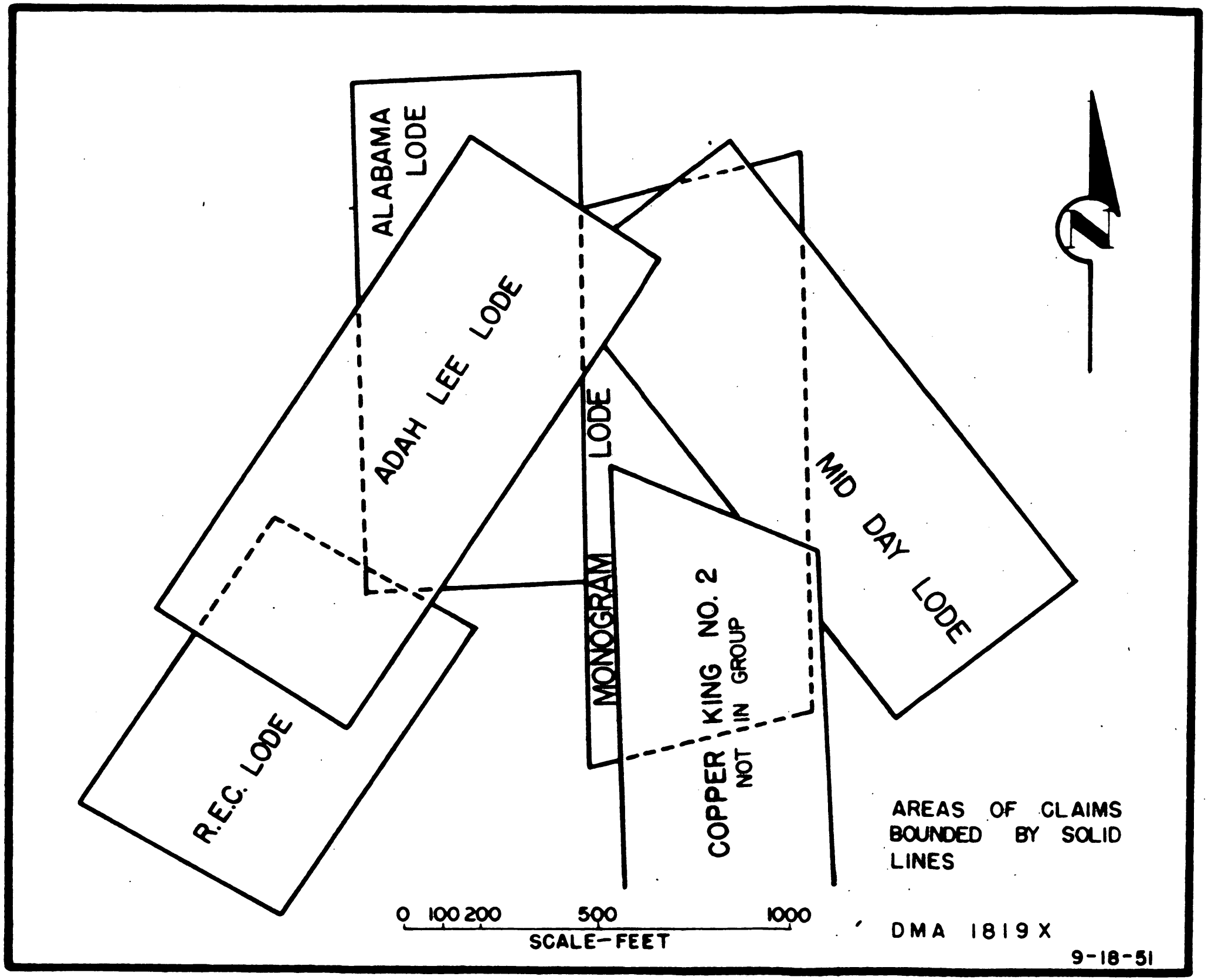

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

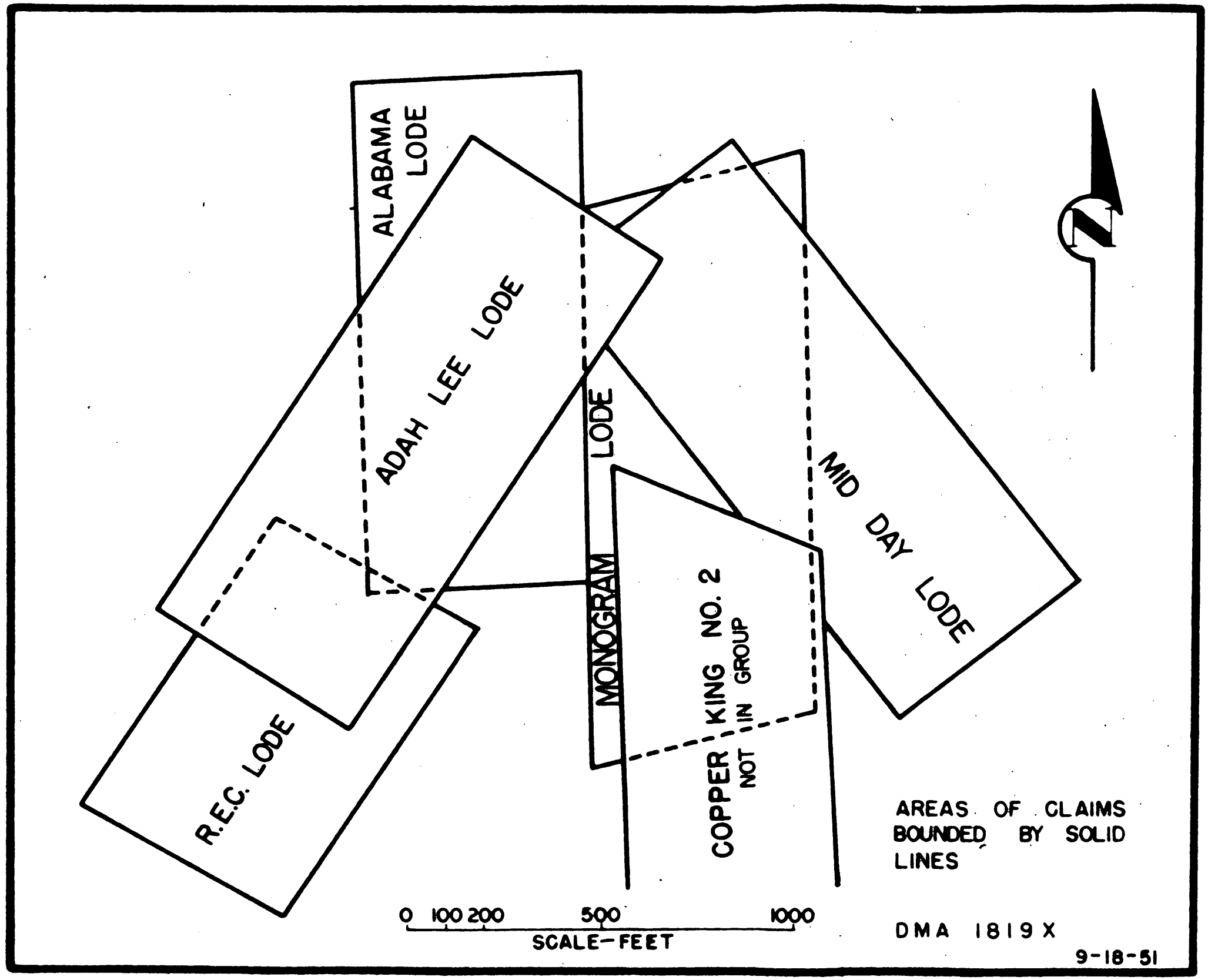

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

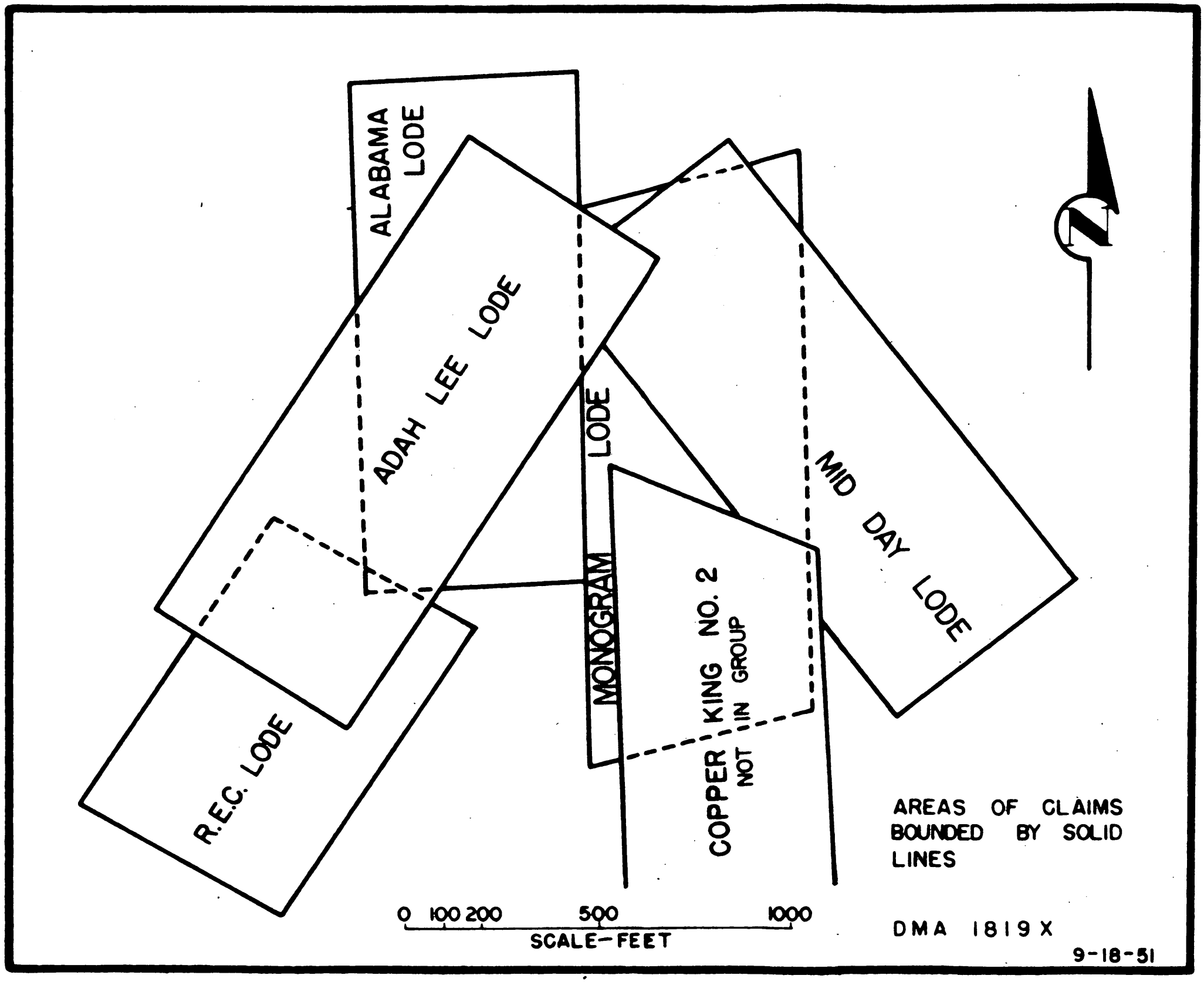

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

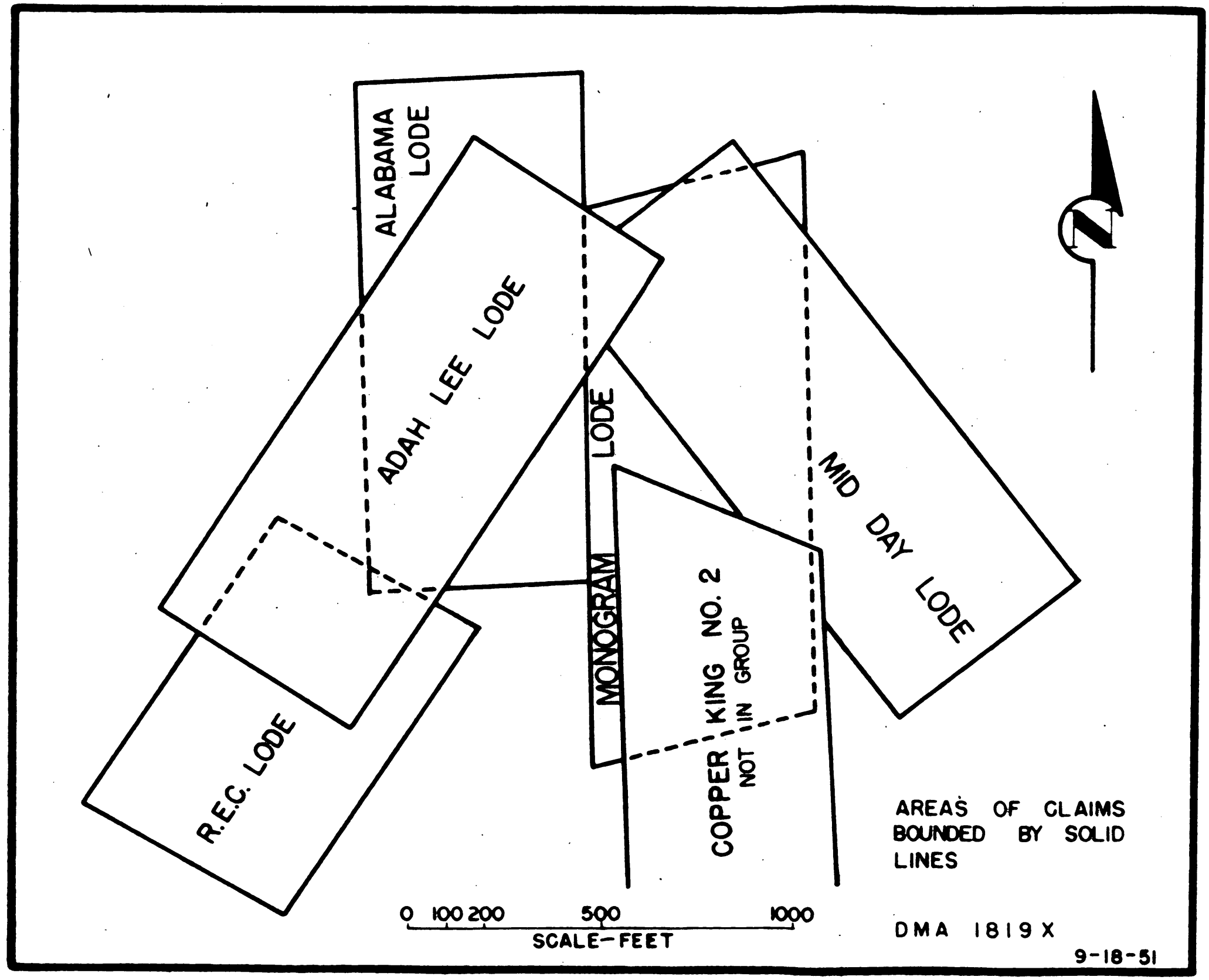

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

Bureau of Mines

W. R. Storms, Tucson, Arizona

Oct. 9, 1951

Silver City, New Mexico Field Office

Maps for Moffett's Mid Day Zinc deposits, Docket DMA-1819X

We are enclosing an additional figure (No. 5) for Moffett's Mid Day report. The tracing is ready for printing and we would like to have two prints returned to us.

Also included is the work sheet of Figure 4 with an addition to be put on the tracing of Figure 4. We would like to have the work sheet returned to us.

John H. Soule'
Acting Supervising Engineer

cc Allsman
reader
file

Mining Division
Date Rec'd.
OCT 11 1951
BUREAU OF MINES
Denver, Colorado

224 New Customhouse
Denver 2, Colorado

April 15, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 1819X, Mid Day Lead-Zinc Lode, Orogrande District, New Mexico, Joe E. Moffett

Mr. Joe E. Moffett has requested us to cancel his application for an exploration loan on the Mid Day claim. Accordingly, his docket has been placed in our inactive files.

J. H. East, Jr.

JHE:ld

cc: Docket, chron.
Koschmann
Storms

224 New Customhouse
Denver 2, Colorado

June 19, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1819X (Zinc) Joe E. Moffott's Mid Day Zinc Deposits, Otero County, New Mexico

Enclosed are four copies of the final report on DMA 1819X.

At the request of the applicant, the application was withdrawn.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Hmc W. H. K.
HMC:ec

cc: Contract, Chron.
Koschmann (2)

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

224 New Customhouse
Denver 2, Colorado

October 25, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1819-X, Final Report, Joe E. Moffett, applicant Mid Day Zinc Deposits, Silver Hill (Orogrande) Mining District, Otero County, New Mexico

The subject report has been approved by us and an exploration loan of $2,500 is being processed.

Your copies of the report and the brochure are being held here until the execution of the exploration project contract.

J. H. East, Jr.

A. H. Koschmann

CC: WRStorms w/copy of final report
CAnderson w/copy of final report
PTAllsman w/copy of final report
AHKoschmann w/copy of final report
DMA Final Report

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

224 New Customhouse
Denver 2, Colorado

October 25, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1819-X, Final Report, Joe E. Moffett, applicant; Mid Day Zinc Deposits, Silver Hill (Orogrande) Mining District, Otero County, New Mexico

The subject report has been approved by us and an exploration loan of $2,500 is being processed.

Your copies of the report and the brochure are being held here until the execution of the exploration project contract.

J. H. East, Jr.

A. H. Koschmann

WDM:oj
cc: DMA subject, chron.
AHKoschmann
WRStorms w/copy of final report
CAnderson w/copy of final report
PTAllsman w/copy of final report
AHKoschmann w/copy of final report
DMA Final Report

Fo[redacted] (Rev. 3-49)

Receipt for Registered Article No. 70242

Postmaster per 19

POSTMARK

Fee paid _____ *cents* *Class postage* _____

Declared value _____ Surcharge paid, $_____

Return Receipt fee _____ Spl. Del'y fee _____
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07—16—10433-4 GPO

NOTICE TO SENDER—Enter below name and address of addressee as an identification. Preserve and submit this receipt in case of inquiry or application for indemnity.

18,97x

(Name of addressee) (P. O. and State of address)

Registered Mail—Fees for indemnity limited to:

$5	25¢	$200	60¢	$700	$1.20
25	35¢	300	70¢	800	1.30
50	40¢	400	85¢	900	1.40
75	45¢	500	1.00	1,000	1.50
100	50¢	600	1.10		

The fee on domestic registered matter without intrinsic value and for which indemnity is not paid is 25 cents.

Domestic registered mail is subject to surcharges when the declared value exceeds the maximum indemnity covered by the registry fee paid. Fees on domestic registered C. O. D. mail range from 55 cents to $1.55. Indemnity claims must be filed within 1 year (C. O. D., 6 months) from date of mailing.

Consult postmaster as to the registry fees chargeable on registered parcel post packages for foreign countries.

o7—16—19433-4

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(NAME OF SENDER)

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7024-2

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No.

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COLORADO.

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Rev. 1-4-40

RETURN RECEIPT

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1 H. E. Stevens

(*Signature or name of addressee*)

2 Louise E. Yoder

(*Signature of addressee's agent—Agent should enter addressee's name on line ~~ONE~~ above*)

Date of delivery [illegible], ***19***[illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—12421-1

Mining Division
Region IV

November 30, 1951

REGISTERED MAIL

Memorandum

To: W. R. Storms

From: Chief, Mining Division, Region IV

Subject: DMA Docket 1819K, Joe E. Moffatt Contract

Enclosed for the applicant's signature are the original and five copies of the above contract.

Each of the four partners should sign his or her name exactly as it is typed in the first paragraph of the contract.

Kindly return all the signed copies to this office.

W. H. K.

W. H. King, for
F. T. Allsman

Enclosures

JF:ld JFA

cc: DMA docket, chron.
Kaschmann

Mining Division
Date Rec'd.
DEC 5 1951
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

December 3, 1951

Memorandum

To : John H. Soule', Silver City, New Mexico

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Contract, DMA Docket 1819X, Joe E. Moffett

Please contact Moffett and have the enclosed contract forms (MF-200) signed as soon as possible. Have each of the 4 partners sign as typed on contract.

Please return all signed contracts to me so I can forward them to Denver.

Walter R. Storms

CC P. T. Allsman
DMA 1819X
DF

WRStorms:frj

cc. H. K.
Flow
Jones

Mining Division
Date Rec'd
FEB 15 1952
BUREAU OF MINES
Denver, Colorado

New Mexico Field Office
Box 1060, Silver City, New Mexico
February 12, 1952

Mr. Joe E. Moffett
1102 Vermont Ave.
Alamogordo, New Mexico.

DMA 1819X, Mid-Day Lead-Zinc Lede,
Orogrande District, Otero County,
New Mexico

Dear Mr. Moffett:

Since we have not received the signed contracts from you on the proposed Mid Day exploration, we are wondering if you have decided to postpone the work there.

Could you let us know what your intentions are in this matter?

Sincerely yours,

John H. Soule'
Acting Supervising Engineer

cc King, Denver
Storms, Tucson
reader
file

W.H.K.

Mining Division
Date Rec'd.

MAR 20 1952

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

March 18, 1952

REGISTER- Return Receipt Requested

Re: DMA Docket 1819X, Mid-Day Lead-Zinc Lode, Orogrande Dist., Otero Co., N. Mex.

Mr. Joe E. Moffett
1102 Vermont Ave.
Alamogordo, N. Mex.

My dear Mr. Moffett:

Some time ago, Mr. J. H. Soule' of our former Silver City, New Mexico office sent you copies of an exploration contract for work on your Mid-Day claim near Orogrande. As Mr. Soule' did not hear from you, he again wrote you on February 12, asking about your proposed work, but to date has heard nothing from you.

As we have had to close our Silver City office because of lack of funds, all New Mexico DMA work now is being handled from this office.

If you have decided not to go ahead with the proposed work on the Mid-Day claim, will you please return the contracts to me with a letter cancelling your application for an exploration loan? We then can drop this project from our files.

Sincerely yours,

Walter R. Storms, Chief
Arizona-New Mexico Branch

CC W. H. King
DMA-1819X
DF

WRStorms:frj

Mining Division
Region IV

October 25, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1618-I, Joe R. Moffett, applicant, Mid Day Zinc Deposits, Silver Hill (Gregrande) Mining District, Otero County, New Mexico

The application of the subject docket was for an exploration loan of an unspecified amount.

The ore exposed on the claim consists of sphalerite, partially oxidized to smithsonite, as a replacement in highly garnetized and metamorphosed limestone. The major part of this limestone has been removed by erosion, which has uncovered the monzonite intrusive.

There are not any measurable reserves, and indicated reserves are only 41 tons of 22%. There are little data for estimating inferred reserves, but these may amount to 4,000 tons of 20 percent zinc ore.

The applicant did not submit details as to the proposed project, but the examining engineer suggests two drifts of 30 feet each on the present showing of ore, and recommends approval of a loan of $2,500.

The applicant has sufficient resources to supply his part of the cost of the project.

We concur with the recommendation of the examining engineer, with the provision that one of the miners should be competent to supervise the operation.

An exploration project contract is being processed.

WDM:oj
cc: DMA subject, chron.
AHKoschmann

Paul T. Allmann

REGISTERED MAIL - RRR

Memorandum

To: W. R. Sterms, Tucson, Arizona October 10, 1951

From: Silver City, New Mexico Field Office

Subject: Docket DMA-1819X, Joe E. Moffett's Mid Day Zinc deposits, Silver Hill (Orogrande) Mining District, Otero County, N. Mex.

Enclosed is the completed report on Moffett's Mid Day claim. The application, Docket DMA-1819X, is being returned with my report.

Although the project is definitely a "long shot" it seems that a small expenditure might be worthwhile as it may create interest in the district and would determine, to some extent, the extent of zinc mineralization, which has not been reported from the district before this.

It may be that my proposal would be classed as development, but for a small thing like this I can not see at this time any other way to explore othan than to follow the ore. Some good geological information may be obtained by this work.

John H. Soule'
Acting Supervising Engineer

cc Allsman
reader
file

Mining Division
Date Rec'd.
OCT 11 1951
BUREAU OF MINES
Denver, Colorado

Mining Division
Date Rec'd.

OCT 11 1951

BUREAU OF MINES
Denver, Colorado

New Mexico Field Office
Box 1060, Silver City, New Mexico
October 8, 1951

Mr. Joe E. Moffett
11029 Vermont Ave.
Alamogordo, New Mexico

DMA-1819X, Mid Day Lead-Zinc Lode,
Silver Hill (Orogrande) District,
Otero County, New Mexico

Dear Mr. Moffett:

I am returning, with many thanks, the copy of the patent plat you leaned to me.

Following are the analyses of the two samples taken by me. These samples and the specimens were tested with the ultra-violet light and the Geiger Counter. There is no tungsten (scheelite) nor uranium minerals present.

Sample	Cu %	Pb %	Zn %	Oxide Zn %
1 (Lower tunnel)	1.00	0.15	14.95	4.40
2 (Upper tunnel)	0.20	0.10	38.50	---

It can be readily seen that the material in the upper drift is nice ore. The material from the lower tunnel contains only 10.55 percent sulfide zinc which would be millable. The oxide zinc will be lost in a mill. The latter grade of ore would not be economical.

Based on the above assays and because there are practically no ore reserves on the property, I have suggested a project of exploration consisting of drifting on the ore, with special attention to the zinc in the upper tunnel. These drifts will show if the ore bodies are of appreciable size. If they are, then future work can be planned, such as your idea of an even grade tunnel into the hillside. In other words, at this time it seems more important to explore the places by following the ore even if the cars must be pulled out of the tunnels.

The costs I have arrived at amount to $2,500, of which half would be supplied by the Government. The project would last about a month and, because of this short time, I have allowed for the purchase of no major equipment but have recommended that it be rented with option to purchase. If good results are obtained by the exploration, then plans can be made to acquire the equipment. If the project is satisfactory to you, I would appreciate a statement to that effect.

Sincerely yours,

John H. Soule', Acting Supervising Engineer

cc Storms, Tucson
Allsman, Denver
reader
file

Mining Division
Date Rec'd.

OCT 4 1951

BUREAU OF MINES
Denver, Colorado

Bureau of Mines

W. R. Storms, Tucson, Arizona

October 1, 1951

Silver City, New Mexico Field Office

DMA-1819X, Moffett's Mid Day claims, Orogrande Dist., Otero County

Under separate cover we are sending you the final tracings of four figures to accompany the report on Moffett's Mid Day claim in the Orogrande Mining District of Otero County, New Mexico.

Please return three prints of each tracing to this office.

If it would be of help to you, we could get some solution and paper and do our printing here as we have all the necessary equipment.

John H. Soule'
Acting Supervising Engineer

cc Allsman
reader
file

Mining Division
Date Rec'd.
OCT 1 1951
BUREAU OF MINES
Denver, Colorado

New Mexico Field Office
Box 1060, Silver City, New Mexico
September 24, 1951

Mr. Robert Lenon
Consulting Mining Engineer
Lenon Engineering Offices
Box 525
Patagonia, Arizona

DMA Docket 1819X, Alabama Group,
Otero County, New Mexico

Dear Bob:

In reference to your letter of Sept. 21, in answer to mine of the 14th, I had reference to the second paragraph of the second page of the application, item 21, MF-103 continuation, which is quoted: "Deepening of existing shafts and investigating of extensions of ore bodies previously discovered along breaks and contacts in the limestones."

Mr. Moffett seemed not too clear on just what was to be done except for driving one new adit to intercept the most southeasterly workings. This would be construed as development work and not as exploration. Another thing that is necessary is a plan of the proposed exploratory work showing which shaft will be deepened, approximately how much, which tunnel would be lengthened and so on.

Another thing that brought up some question was the cost of the proposed project. Was the original proposal $2,500 later changed to $6,500 or was the $2,500 a typographical error? If so, the full amount should be listed in item 23 on page 2, MF-103 continuation.

Sincerely yours,

John H. Soule'
Acting Supervising Engineer

cc Storms, Tucson
Allsman, Denver
reader
file

Mining Division
Date Rec'd.
SEP 17 1951
Bureau Of Mines
Denver, Colorado

New Mexico Field Office
Box 1060, Silver City, New Mexico
September 14, 1951

Mr. Robert Lenon
Consulting Mining Engineer
Box 525
Patagonia, Arizona

DMA Docket 1819X

Dear Bob:

I have just completed an examination of Joe Moffett's Alabama group of claims in the Silver Hill (Orogrande) Mining District, Otero County, New Mexico. This work was done in connection with his application for exploratory assistance from the Government.

Mr. Moffett informs me that you collaborated on the original application and I have his permission to write you about a point that has arisen. We find that some of the proposed work would be classified as development which would not be allowable under an exploration agreement. Perhaps you would like to amend the proposal to include only work that is purely exploratory with the location, character and amount of work to be done with the estimated costs. Perhaps some shallow drilling would be justified.

I will await your reply before I submit my report.

Sincerely yours,

John H. Soule'
Acting Supervising Engineer

cc Storms
Allsman
reader
file

Mining Division
Date Rec'd.
SEP 20 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: W. R. Storms, Tucson, Arizona Sept. 18, 1951

From: Silver City, N. Mex. Field Office

Subject: Maps for Moffett's Mid Day Lode claim, Docket DMA-1819X, Otero County, New Mexico.

Under separate cover we are sending you four rough maps of the subject docket for tracing and printing. The maps are listed as follows:

Figure 1. Location map.
Figure 2. Claim map.
Figure 3. Topographic sketch.
Figure 4. Sketch of geology and underground workings.

Please return three prints of each figure to this office.

John H. Soule'
Acting Supervising Engineer

cc Allsman
reader
file

Mining Division
Date Rec'd.

SEP 10 1951

BUREAU OF MINES
Denver, Colorado

Memorandum

To: W. R. Storms, Tucson, Arizona Sept. 7, 1951

From: Silver City, New Mexico Field Office

Subject: New Mexico Field Office Weekly Report - 9/3-7/51.

DMA-1819X - Joe E. Moffett, applicant, Mid-Day Lode lead-zinc property, Silver Hill (Orogrande) Mining District, Otero County, N. Mex.

Examiner - John H. Soule', Bureau of Mines

The docket for this application has been received and the examination is scheduled for next week.

Time spent on DMA-1819X: J. H. Soule', 2 hrs.

Pt from J.H.S.

John H. Soule' returned from annual leave and spent the period working on waiting correspondence and on supplemental reports that have been pending. Two of these, the Grandview (Dowell-Tirey) Zinc Group and the Tittman-National Defense Manganese Group have had work done on them by the owners and a Bureau project is now unnecessary. Supplemental letters were written on these two properties and forwarded to Tucson.

John H. Soule'
Acting Supervising Engineer

cc Allsman, Denver
reader
092 Wkly Rpt

Mining Divisi
Date Rec'd.
SEP 10 1951
BUREAU OF MINES
Denver, Colorado

New Mexico Field Office
Box 1060, Silver City, N. Mex.
September 7, 1951

Mr. Joe E. Moffett
1102 Vermont Avenue
Alamogorde, New Mexico

Dear Mr. Moffett:

We have just received your application for exploration assistance on the Mid-Day Lead-Zinc Lode mine in the Silver Hill (Oregrande) Mining District in Otero County, N. Mex. (DMA-1819X).

I expect to arrive in Alamogorde Wednesday afternoon on September 12, 1951, and will contact you regarding this property. I would like to examine the mine the following day.

If the above schedule is not satisfactory, please notify me at once so that I may fit my plans with any change.

Sincerely yours,

John H. Seule'
Acting Supervising Engineer

cc Storms, Tucson
Allsman, ~~Denver~~
reader
file

Mining Division
Date Rec'd.
SEP 6 1951
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

Sept. 4, 1951

Registered

Memorandum

To : John H. Soule, Silver City, New Mexico

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : BMA Docket 1819X, Joe E. Moffett's Mid-Day Lead-Zinc Lode, Silver Hill (Orogrande) District, Otero County, N. Mex.

Enclosed is brochure material for the above docket. Please get in touch with Moffett and arrange to visit this mine.

I suspect that you will find it a dud as I looked over most of that Orogrande area several years ago.

Please return the complete file when finished with it.

Walter R. Storms

CC P. T. Allsman
C. A. Anderson
BMA 1819X
DF

WRStorms:frj

July 31, 1951

Memorandum

To: W. R. Storms (with brochure)

(Through Chief, Mining Division)

Charles Anderson

From: DMA Field Team, Region IV

Subject: DMA Docket 1619K, Joe E. Moffett, Manager, Mid Day Lead-Zinc Lode, Silver Hill District, Otero County, New Mexico

Attached hereto is the above brochure with application for an exploration lease of an indefinite amount.

The geological probability of discovery requires field examination and if this is favorable, engineering studies of the proposed exploration will be required.

F. W. Ellsman, Alternate

A. H. Kossmann

A. H. Kossmann

Attachment

1A

cc: DMA
Kossmann

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

OFFICE
REGION IV
JUL 30 1951

JUL 25 1951

WRH
8-3-51

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Dear Sir:

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

Docket No. 1819X

Commodity Lead, zinc

Applicant Joe E. Moffett, Mgr. 1102 Vermont Ave.
Alamogordo, New Mexico

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

Very truly yours,

for Tom Lyon

Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Alex L. Ron
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1819X

Commodity Lead-zinc

Total Amount Not clearly indicated

Govt. Participation 50%

1. Name and Address of Applicant Joe E. Moffett, Manager, 1102 Vermont Avenue Alamogordo, New Mexico

2. Location of Property Mid Day Lode, Silver Hill District, Otero County, New Mexico

3. Mineral or metal Zinc, copper, lead manganese 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 X

e) Is there an alternative and favorable project? No
(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? Does not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? Does not apply

a) MF-201? _____

b) MF-202 _____

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

a) Available manpower _____

b) Equipment and supplies _____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* _____

d) Water (question 13)* _____

e) Power (question 13)* _____

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

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

_____

Is a field check needed on this point? No

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? Not sufficiently

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable?_____

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? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes, See instructions under 17

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?_____

d) Is a field check needed? Yes, See instructions under 17

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

a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed? Dont know

c) Is the schedule excessive for the work proposed? " "

d) Are the proposed wages and salaries reasonable? " "

e) Is a field check needed? Yes, see instructions under 17

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check cost estimate. Is it $6,500.00 or $ 2,500.00? Define project as to length of time, which shafts are to be reopened, amount of deepening each shaft, locations and footages of crosscuts and/or drifts aggregating 100 feet. Cost estimates should be checked and itemized for each month.

Reviewed by: B. Gildersleeve GS

Date 7-24-51

INT.-DUP. SEC., WASH., D.C. 99009

McKnight
O'Leary
6/5/51 (For MFE)

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1819X

Commodity Lead-zinc

Total Amount Not clearly indicated

Govt. Participation 50%

1. Name and Address of Applicant Joe E. Moffett, Ganager, 1102 Vermont Avenue Alamogordo, New Mexico

2. Location of Property Mid Day Lode, Silver Hill District, Otero County, New Mexico

3. Mineral or metal Zinc, copper, lead ~~manganese~~ Is it listed in Section 9 of MO-5?

If not, application will be rejected.

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b) Poor

c) None

d) Don't know—needs field examination X

e) Is there an alternative and favorable project? No
(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? Does not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? Does not apply

a) MF-201? _____

b) MF-202 _____

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

a) Available manpower _____

b) Equipment and supplies _____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* _____

d) Water (question 13)* _____

e) Power (question 13)* _____

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

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

_____

Is a field check needed on this point? No

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? Not sufficiently

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable?_____

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? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes, See instructions under 17

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?_____

d) Is a field check needed? Yes, See instructions under 17

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a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed? Dont know

c) Is the schedule excessive for the work proposed? " "

d) Are the proposed wages and salaries reasonable? " "

e) Is a field check needed? Yes, see instructions under 17

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check cost estimate. Is it $6,500.00 or $ 2,500.00? Define project as to length of time, which shafts are to be reopened, amount of deepening each shaft, locations and footages of crosscuts and/or drifts aggregating 100 feet. Cost estimates should be checked and itemized for each month.

Reviewed by: B. Gildersleeve GS

Date 7-24-51

INT.-DUP. SEC., WASH., D.C. 99009

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1010 X

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION LOAN

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Lead-Zinc Br.	Date	7-11-51
To:	Supply Division	Date	7/24/51
To:	Field Team	Date	7/25/51
To:	Tucson	Date	10-10-51
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

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 1819X

Date received 7-9-51

Participation

Joe E.Moffett 1102 Vermont Ave, Alamogordo, New Mexico
Mrs Eva E.R.Shipley 1102 Vermont Ave Alamogordo, New Mexico
Mrs Edwina K.Neve 1108 Vermont Ave Alamogordo, New Mexico
Mrs Mary M.Bell ---------- Weed, New Mexico

Partnership, Joe E.Moffett,Mgr.

Name and address of applicant

Date June 25, 1951

FILL IN THIS BLOCK

Date of application June 25th, 1951 Estimated cost $ 6500.00

Mineral or metal Zinc, Copper, Lead,Manganese Percentage of Government participation %50.

Location of mine Silver Hill Mining District Orogrande, Otero County, N.Mex.
Patented as Mineral Survey No.1089 on june 15th, 1903.

Date of filing MF-100 DMA Docket Number, if available 1819X

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
JUL 9 - 1951
LANDON F. STROBEL
Executive 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)?

JUL 11 1951

*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 and 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

Form MF-103 Continuation

Item	The applicant
1	Partnership
2	Owners
3	Not applicable
4	Joe E.Moffett, Twenty yeasrs Police Dept,El Paso,Texas and now Chief of Police Alamogordo, N.M. Service with U.S.Engineer's World War 2, Also early association with Father Geo E.Moffett Prior Owner, Geologist and Mining Engineer
5	Owner
6	None
7	No
8	During present ownership no work has been done on this property During the past thirty years we have grubstaked two miners who are now cleaning out present shafts and tunnels for purpose of inspecting by a mining engineer.
9	Amount necessary to meet 50% of estimate cost of $2,500.00
10	Patented land under Mineral Survey No.1089 Midday Lode consisting of 19.17 acres in Silver Hill Mining District Orogrande, Otero County,New Mexico . (B) Mid Day Lode Mineral Survey No.1089 New Mexico.
11,	Mid day Lode, Mining Survey No. 1089 No change since 1903.
12.	1½ miles north west of PostOffice at Orogrande,New Mexico 2 miles north West of Southern Pacific Railroay Depot at Orogrande,Otero County, New Mexico. Gravel road to R.R.Spur loading Ramp 1½ miles , Down grade haul road of about %02 ½ miles of this road will need consideral repairs.
13.	Water would have to be obtained from S.P.R.R.resoirvoy about 1 mile distance. Road in fair condition.
14.	No Power available. B. No equipment of any kind .
15.	By rail or Truck. Nearest Mill at Deming,N.M. Nearest Smelter located at El Paso, Texas.
16.	Attached copy of Bullitin No 7, and recent report by Mr Robert Lenon, R.E.M. of Patagonia, Arizona.
17.	Not in Production.
18.	Not presently in production.
19.	None

20. Lead, Copper, Zinc, and Manganese ores for shipment to mill of or smelter.

21. Deapening of existing shafts and investigating of extensions of ore bodies previously discovered along breaks and contacts in the lime stones.

22. See attacher reports and history.

23. Estimates of expenses:

A.	2 miners and 1 mucker @ $18.00 per day	$ 700.00	
B.	repairs to shafts and drifts	$ 200.00	
C.	Tent camp for workers	$ 250.00	
D.	Small gasoline hoist	$ 200.00	
E.	2 mine cars used	$ 200.00	
F.	Rock drill and accessories	$ 500.00	
G.	250 feet of Track and pipe	$ 400.00	
H.	Hand tools all kinds including wheelbarrows	$ 250.00	*
I.	1 gasoline 105 C.F.M. compressor	$ 200.00	rental
		$2900.00	
	Supervision by partner no direct expense		
1.	Freight on equipment, labor and Misceleanous	$ 300.00	
2.	Laying of track, pipe, set up hoist ect	$ 300.00	
3.	Blasting supplies	$ 150.00	
4.	Rental of road equipment machinery	$ 400.00	*
	Overall estimate of 1st month operation	$4,050.00	$4,050.00

Second month

Labor as listed	~~$700.00~~	$ 700.00
Blasting supplies, oil, gasoline, ect		$ 350.00
Rental on equipment		$ 200.00
		$1250.00

3rd and succeeding months: as above.

24. Progress expected: 100 linear feet of development work, or 100 tons of ore extracted

* rental monies can be applied to purchase price of equipment.

Certification.

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

Partnership as listed by Joe E Moffett

June 25, 1951 Manager

Date Title.

C O P Y

From Bulletin No.7--"The Metal Resources of New Mexico and their Economic Features"; By, Samuel G. Lasky and Thomas P. Wooten----1932 (out of print) New Mexico Bureau of Mines and Mineral Resources.

C O P Y

Orogrande (Jarilla, Silver Hills, Brice) District.

Orogrande is a station on the Southern Pacific railroad in southwestern Otero County. The Jarilla Hills are a few miles northwest of Orogrande.

Prospecting was first conducted in the Jarilla Hills in 1879, but no real mining was done until about 20 years later. A 250 ton matting furnace was operated at Orogrande from 1907 to 1909. Iron ore was shipped to Pueblo, Colorado., intermittently from 1916 to 1921. The iron ore was produced chiefly from the Cinco de Mayo, Iron Duke, Lincoln, Seven-come-Eleven and Three Bears Claims. A jigging plant for treating these ores was operated during 1921. Up to about 1904 the district yielded approximately $100,000 in gold and copper. Of this amount about $8,000 came from dry placer operations. From 1904 to 1929 the district produced gold, silver, copper and lead to the value of $1,446,491, of which over $13,000 represents placer gold. No figures of the iron ore values produced are available. The district has also produced a little tungsten ore.

The Jarilla Hills consist of an irregular mass of fine grained monzonite porphory, which has intruded carboniferous limestone. The limestone is metamorphosed near the contact and contains iron oxides and typical contact silicates. The ores occur as contact-metamorphic deposits in the limestone and follow bedding planes and fracture zones across the strata. They contain pyrite, chalcopyrite and associated gold and silver. Some of the deposits in the metamorphic rock are essentially quartz-pyrite veins having indefinite bounderies. The ores are partly oxidized.

Placer deposits, the gold of which was derived from some of the lode deposits, have been worked on the southeastern slope of the hills. The gravels are reported to assay about $1 a cubic yard. Water is very scarce, and most of the gold has been recovered with some form of dry washer. The gold is about 940 fine.

##########

LENON ENGINEERING OFFICES
Robert Lenon, B.S.E.M.,
Consulting Mining Engineer
Regional Mining & Mineral
Surveyor.

C O F Y
PO Box 525
Patagonia

PO Box 257
Nogales

C O F Y
PO Box 1525
Bisbee

Patagonia, Arizona, March 10th 1951.

The Alabama Group of Patented Claims, Silver Hills District, Otero County, N. Mex.

The Alabama Group is made up of the Alabama, Monogram, Adah Lee, Mid Day and R.E.C. lode claims, patented as mineral survey No.1089, on June 15th., 1903.

A reconnaissance was made of this property on February 26th 1951 to ascertain its possibilities for production of metals and minerals. Reference is made to the patent-plat for features mentioned in this report.

The ground is situated in the Silver Hills District, Otero County, N. Mexico, about one and one half miles west of Orogrande Post Office which is on the El Paso,-Alamogordo highway, and about two miles west of the main line of the Southern Pacific Railroad.

The district is an old one, and little work has been done on the property in question for some time. As a consequence it was not possible to enter some of the more interesting-looking workings for examination.

Workings os particular interest are listed below in approximate order of interest for possible future development:

1. MID DAY lode, shaft-tunnel No.2: This is the most extensive work on the property, and was done on a flat-lying bed in the limestone dipping about 20 northeasterly. Most of this work is accessible and a good ~~quantity~~ quantity of sulphides, showing values in copper and zinc is visible on the dump. It is recommended that the workings be entered and sulphides in place be picked and blasted for a look at the fresh materials for sampling and examination.

2. MID DAY Lode, opening No.6: This is a large quarry-like opening from which a considerable amount of turquoise is said to have been extracted. Crumbs of this mineral found on the dumps appear to be of good quality and stones from this deposit are known to have retained their good color permanently.

This opening, which is about 30X40X15 feet in size, shows no veins of turquoise in place on the walls, and the bottom is entirely covered with waste shot down from the sides. In view of the large amount of work done, however, and the surperior quality of the stones extracted, it is suggested that the loose rock be cleared away and the bottom of the pit carefully examined for extensions of the deposits previously mined.

3. MID DAY lode, shaft No.4: This is a shaft sunk in a large open-cut for the purpose of mining turquoise. The shaft is vertical and is wholly untimbered;

Alabama Group - continued:

it is open to a depth of about 50 feet. It is recommended that this shaft be entered for the purpose of examining the walls for possible veins of turquoise that may still be visible.

4. MID DAY lode, shaft No.5: This is a vertical shaft open to a depth of over fifty feet and wholly untimbered. The vein on which it was struck strikes northeasterly, and is strong. From the appearance of the siliceous material on the dumps it is probable that this work was done for the precious-metal values that may be therein. It is recommended that these openings be entered and samples taken for gold and silver. No base-metal minerals were noted on the dump.

All of the above-mentioned workings are shown in red on the attached copies of the patent-plat; they being the only openings that appeared attractive during this reconnaissance. Claim-corners seen are also shown in red, while those looked forand not found are shown in blue.

While the veins seen are not continuous nor large, this group contains formations that make it have considerable merit. It is suggested that an effort be made to put the several openings in shape so they can be examined. When this is done it will be possible for interested persons to examine the deposits in detail and they can taks samples and determine the merit of each area for themselves.

CERTIFICATE OF ASSAY

FOR Mr. R. W. Kangford
1102 Vermont
Alamagordo, New Mexico

Miller's Assay Office
HUGO W. MILLER, Owner
Registered Mining Engineer
Established in 1913 — Nogales, Arizona

Laboratory Number	Customer's Marks On Samples As Submitted	GOLD (Oro) Troy Ounces Per Ton (2000 Lbs.)	SILVER (Plata) Troy Ounces Per Ton (2000 Lbs.)	COPPER (Cobre) Percent	LEAD (Plomo) Percent	ZINC		
92193	Sample in flat can			3.4%	1.3%	6.4%		
92194	X Sample from probable Gold bearing dump @ #4	None	0.4					
92195	X "Mid Day Lode" tunnel & shaft #2 present workings				1.3%	1.5%		

Note: Sample Pulps Kept Thirty Days in Case Further Analyses Desired.

z. Troy has 31.1035 grams.
has 32.1507 oz. Troy
upois has 14.583 oz. Troy.

Charges $ 7.75

Date May 8, 1951

Charles O'Keefe
Assayer.

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 1819X

Date received 7-9-51

Participation

Joe E.Moffett 1102 Vermont Ave, Alamogordo, New Mexico
Mrs Eva E.R.Shipley 1102 Vermont Ave Alamogordo, New Mexico
Mrs Edwina K.Neve 1108 Vermont Ave Alamogordo, New Mexico
Mrs Mary M.Bell ---------- Weed, New Mexico

Partnership, Joe E.Moffett,Mgr.

Name and address of applicant

Date June 25, 1951

FILL IN THIS BLOCK

Date of application June 25th, 1951 Estimated cost $ 6,500.00

Mineral or metal Zinc, Copper, Lead,Manganese Percentage of Government participation %50.

Location of mine Silver Hill Mining District Orogrande, Otero County, N.Mex.
Patented as Mineral Survey No.1089 on June 15th, 1903.

Date of filing MF-100 DMA Docket Number, if available 1819X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 - 1951
LANDON T. STROBLE
Executive Secretary

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

P 2 (*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

Form MF-103 Continuation

Item	The applicant
1	Partnership
2	Owners
3	Not applicable
4	Joe E.Moffett, Twenty yeasrs Police Dept,El Paso,Texas and now Chief of Police Alamogordo, N.M. Service with U.S.Engineer's World War 2, Also early association with Father Geo E.Moffett Prior Owner, Geologist and Mining Engineer.
5	Owner
6	None
7	No
8	During present ownership no work has been done on this property During the past thirty years we have grubstaked two miners who are now cleaning out present shafts and tunnels for purpose of inspecting by a mining engineer.
9	Amount necessary to meet 50% of estimate cost of $2,500.00
10	Patented land under Mineral Survey No.1089 Midday Lode consisting of 19.17 acres in Silver Hill Mining District Orogrande, Otero County,New Mexico .
	(B) Mid Day Lode Mineral Survey No.1089 New Mexico.
11,	Mid day Lode, Mining Survey No. 1089 No change since 1903.
12.	1½ miles north west of PostOffice at Orogrande,New Mexico 2 miles north West of Southern Pacific Railroay Depot at Orogrande,Otero County, New Mexico. Gravel road to R.R.Spur loading Ramp 1½ miles , Down grade haul road of about %02 ½ miles of this road will need consideral repairs.
13.	Water would have to be obtained from S.P.R.R.resoirvoy about 1 mile distance. Road in fair condition.
14.	No Power available.
	B. No equipment of any kind .
15.	By rail or Truck. Nearest Mill at Deming,N.M. Nearest Smelter located at El Paso, Texas.
16.	Attached copy of Bullitin No 7, and recent report by Mr Robert Lenon, R.E.M. of Patagonia, Arizona.
17.	Not in Production.
18.	Not presently in production.
19.	None

20. Lead, Copper, Zinc, and Manganese ores for shipment to mill of or smelter.

21. Deepening of existing shafts and investigating of extensions of ore bodies previously discovered along breaks and contacts in the lime stones.

22. See attacher reports and history.

23. Estimates of expenses:

A.	2 miners and 1 mucker @ $18.00 per day	$ 700.00	
B.	repairs to shafts and drifts.....	$ 200.00	
C.	Tent camp for workers.....	$ 250.00	
D.	Small gasoline hoist	$ 200.00	
E.	2 mine cars used	$ 200.00	
F.	Rock drill and accessories.....	$ 500.00	
G.	250 feet of Track and pipe.....	$ 400.00	
H.	Hand tools all kinds including wheelbarrows..	$ 250.00	
I.	1 gasoline 105 C.F.M. compressor.....	$ 200.00	rental *
		$2900.00	
	Supervision by partner no direct expense		
1.	Freight on equipment, labor and Miscellaneous.	$ 300.00	
2.	Laying of track, pipe, set up hoist ect.....	$ 300.00	
3.	Blasting supplies	$ 150.00	
4.	Rental of road equipment machinery.....	$ 400.00	*
	Overall estimate of 1st month operation	$4,050.00	$4,050.00

Second month

Labor as listed ~~expense~~.....	$ 700.00
Blasting supplies, oil, gasoline, ect.....	$ 350.00
Rental on equipment.....	$ 200.00
	$1250.00

3rd and succeeding months: as above.

24. Progress expected: 100 linear feet of development work, or 100 tons of ore extracted

* rental monies can be applied to purchase price of equipment.

Certification.

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

Partnership as listed by Joe E Moffett

June 25, 1951 Manager

Date Title.

LENON ENGINEERING OFFICES
Robert Lenon, B.S.E.M.,
Consulting Mining Engineer
Regional Mining & Mineral
Surveyor.

O O P Y
PO Box 525
Patagonia

PO Box 257
Nogales

O O P Y
PO Box 1525
Bisbee

Patagonia, Arizona, March 10th 1951.

The Alabama Group of Patented Claims, Silver Hills District, Otero County, N. Mex.

The Alabama Group is made up of the Alabama, Monogram, Adah Lee, Mid Day and R.E.C. lode claims, patented as mineral survey No.1089, on June 15th., 1903.

A reconnaissance was made of this property on February 26th 1951 to ascertain its possibilities for production of metals and minerals. Reference is made to the patent-plat for features mentioned in this report.

The ground is situated in the Silver Hills District, Otero County, N. Mexico, about one and one half miles west of Orogrande Post Office which is on the El Paso,-Alamogordo highway, and about two miles west of the main line of the Southern Pacific Railroad.

The district is an old one, and little work has been done on the property in question for some time. As a consequence it was not possible to enter some of the more interesting-looking workings for examination.

Workings os particular interest are listed below in approximate order of interest for possible future development:

1. MID DAY lode, shaft-tunnel No.2: This is the most extensive work on the property, and was done on a flat-lying bed in the limestone dipping about 20 northeasterly. Most of this work is accessible and a good ~~nnnhhhnnn~~ quantity of sulphides, showing values in copper and zinc is visible on the dump. It is recommended that the workings be entered and sulphides in place be picked and blasted for a look at the fresh materials for sampling and examination.

2. MID DAY Lode, opening No.6: This is a large quarry-like opening from which a considerable amount of turquoise is said to have been extracted. Crumbs of this mineral found on the dumps appear to be of good quality and stones from this deposit are known to have retained their good color permanently.

This opening, which is about 30X40X15 feet in size, shows no veins of turquoise in place on the walls, and the bottom is entirely covered with waste shot down from the sides. In view of the large amount of work done, however, and the superior quality of the stones extracted, it is suggested that the loose rock be cleared away and the bottom of the pit carefully examined for extensions of the deposits previously mined.

3. MID DAY lode, shaft No.4: This is a shaft sunk in a large open-cut for the purpose of mining turquoise. The shaft is vertical and is wholly untimbered;

Alabama Group - continued:

it is open to a depth of about 50 feet. It is recommended that this shaft be entered for the purpose of examining the walls for possible veins of turquoise that may still be visible.

4. MID DAY lode, shaft No.5: This is a vertical shaft open to a depth of over fifty feet and wholly untimbered. The vein on which it was struck strikes northeasterly, and is strong. From the appearance of the siliceous material on the dumps it is probable that this work was done for the precious-metals values that may be therein. It is recommended that these openings be entered and samples taken for gold and silver. No base-metal minerals were noted on the dump.

All of the above-mentioned workings are shown in red on the attached copies of the patent-plat; they being the only openings that appeared attractive during this reconnaissance. Claim-corners seen are also shown in red, while those looked forand not found are shown in blue.

While the veins seen are not continuous nor large, this group contains formations that make it have considerable merit. It is suggested that an effort be made to put the several openings in shape so they can be examined. When this is done it will be possible for interested persons to examine the deposits in detail and they can take samples and determine the merit of each area for themselves.

From Bulletin No.7--"The Metal Resources of New Mexico and their Economic Feathres"; By, Samuel G. Lasky and Thomas P. Wooten----1932 (out of print) New Mexico Bureau of Mines and Mineral Resources.

Orogrande (Jarilla, Silver Hills, Brice) District.

Orogrande is a station on the Southern Pacific railroad in southwestern Otero County. The Jarilla Hills are a few miles northwest of Orogrande.

Prospecting was first conducted in the Jarilla Hills in 1879, but no real mining was done until about 20 years later. A 250 ton matting furnace was operated at Orogrande from 1907 to 1909. Iron ore was shipped to Pueblo, Colorado., intermittently from 1916 to 1921. The iron ore was produced chiefly from the Cinco de Mayo, Iron Duke, Lincoln, Seven-come-Eleven and Three Bears Claims. A jigging plant for treating these ores was operated during 1921. Up to about 1904 the district yielded approximately $100,000 in gold and copper. Of this amount about $8,000 came from dry placer operations. From 1904 to 1929 the district produced gold, silver, copper and lead to the value of $1,446,491, of which over $13,000 represents placer gold. No figures of the iron ore values produced are available. The district has also produced a little tungsten ore.

The Jarilla Hills consist of an irregular mass of fine grained monzonite porphory, which has intruded carboniferous limestone. The limestone is metamorphosed near the contact and contains iron oxides and typical contact silicates. The ores occur as contact-metamorphic deposits in the limestone and follow bedding planes and fracture zones across the strata. They contain pyrite, chalcopyrite and associated gold and silver. Some of the deposits in the metamorphic rock are essentially quartz-pyrite veins having indefinite bounderies. The ores are partly oxidized.

Placer deposits, the gold of which was derived from some of the lode deposits, have been worked on the southeastern slope of the hills. The gravels are reported to assay about $1 a cubic yard. Water is very scarce, and most of the gold has been recovered with some form of dry washer. The gold is about 940 fine.

####-####

CERTIFICATE OF ASSAY

FOR Mr. R. W. Langford
1102 Vermont
Alamagordo, New Mexico

Miller's Assay Office

HUGO W. MILLER, Owner
Registered Mining Engineer
Established in 1913 — Nogales, Arizona

Laboratory Number	Customer's Marks On Samples As Submitted	GOLD (Oro) Troy Ounces Per Ton (2000 Lbs.)	SILVER (Plata) Troy Ounces Per Ton (2000 Lbs.)	COPPER (Cobre) Percent	LEAD (Plomo) Percent	ZINC		
92193	Sample in flat can			3.4%	1.3%	6.4%		
92194	X Sample from probable Gold bearing dump @ #4	None	0.4					
92195	X "Mid Day Lode" tunnel & shaft #2 present workings				1.3%	1.5%		

Note: Sample Pulps Kept Thirty Days in Case Further Analyses Desired.

1 oz. Troy has 31.1035 grams.
1 Kilo has 32.1507 oz. Troy
1 lb. avoirdupois has 14.583 oz. Troy.

Charges $ 7.75

Date May 8, 1951

Charles O'Keefe
Assayer.

Form MF-103 (April 1951) (3)

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 1819X

Date received 7-9-51

Participation

Joe E.Moffett 1102 Vermont Ave, Alamogordo, New Mexico
Mrs Eva E.R.Shipley 1108 Vermont Ave Alamogordo, New Mexico
Mrs Edwina K.Neve 1108 Vermont Ave Alamogordo, New Mexico
Mrs Mary M.Bell ---------- Weed, New Mexico

Partnership, Joe E.Moffett,Mgr.

Name and address of applicant

Date June 25, 1951

FILL IN THIS BLOCK

Date of application June 25th, 1951 Estimated cost $6,500.00

Mineral or metal Zinc, Copper, Lead,Manganese Percentage of Government participation 50.

Location of mine Silver Hill Mining District Orogrande, Otero County, N.Mex.
Patented as Mineral Survey No.1089 on June 15th, 1903.

Date of filing MF-100 DMA Docket Number, if available 1819X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 1951
LANDON F. STROBEL
Executive Secretary

INSTRUCTIONS

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

THE APPLICANT

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

Form 1M-105 Continuation

Item	The applicant
1	Partnership
2	Owners
3	Not applicable
4	Joe E.Moffett, Twenty years Police Dept,El Paso,Texas and now Chief of Police Alamogordo, N.M. Service with U.S.Engineer's World War 2, Also early association with Father Geo D.Moffett Prior Owner, Geologist and Mining Engineer.
5	Owner
6	None
7	No
8	During present ownership no work has been done on this property During the past thirty years we have grubstaked two miners who are now cleaning out present shafts and tunnels for purpose of inspecting by a mining engineer.
9	Amount necessary to meet 30% of estimate cost of $2,500.00
10	Patented land under Mineral Survey No.1000 Midday Lode consisting of 19.17 acres in Silver Hill Mining District Orogrande, Otero County,New Mexico . (B) Mid Day Lode Mineral Survey No.1000 New Mexico.
11.	Mid day Lode, Mining Survey No. 1000 No change since 1903.
12.	1½ miles north west of PostOffice at Orogrande,New Mexico 2 miles north West of Southern Pacific Railroad Depot at Orogrande,Otero County, New Mexico. Gravel road to R.R.Spur loading Ramp 1½ miles , Down grade haul road of about ½ ½ miles of this road will need considerel repairs.
13.	Water would have to be obtained from U.S.R.R.reservoy about 1 mile distance. Road in fair condition.
14.	No Power available. B. No equipment of any kind .
15.	By rail or Truck. Nearest Mill at Deming,N.M. Nearest Smelter located at El Paso, Texas.
16.	Attached copy of Bullitin No 7, and recent report by Mr Robert Lemon, E.M.M. of Patagonia, Arizona.
17.	Not in Production.
18.	Not presently in production.
19.	None

20. Lead, Copper, Zinc, and Manganese ores for shipment to mill of or smelter.

21. Deepening of existing shafts and investigating of extensions of ore bodies previously discovered along breaks and contacts in the lime stones.

22. See attacher reports and history.

23. Estimates of expenses:

A.	2 miners and 1 mucker @ $18.00 per day	$ 700.00	
B.	repairs to shafts and drifts.....	200.00	
C.	Tent camp for workers.....	250.00	
D.	Small gasoline hoist	200.00	
E.	2 mine cars used	200.00	
F.	Rock drill and accessories.....	500.00	
G.	250 feet of Track and pipe.....	400.00	
H.	Hand tools all kinds including wheelbarrows...	250.00	
I.	1 gasoline 100 C.F.M. compressor.....	300.00	rental *
		$2900.00	
	Supervision by partner no direct expense		
1.	Freight on equipment, labor and Miscellaneous..	300.00	
2.	Laying of track, pipe, set up hoist ect.....	300.00	
3.	Blasting supplies	150.00	
4.	Rental of road equipment machinery.....	400.00	
	Overall estimate of 1st month operation	$4,050.00	$4,050.00

Second month

Labor as listed ~~xxxxxx~~.....	$ 700.00
Blasting supplies, oil, gasoline, ect.....	350.00
Rental on equipment.....	200.00
	$1250.00

3rd and succeeding months: as above.

24. Progress expected: 100 linear feet of development work, or 100 tons of ore extracted

* rental monies can be applied to purchase price of equipment.

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 knoledge and belief.

Partnership as listed by Jas E. Moffett

June 23, 1951 Manager

Date Title.

LENON ENGINEERING OFFICES
Robert Lenon, B.S.E.M.,
Consulting Mining Engineer
Regional Mining & Mineral
Surveyor.

O O P Y
PO Box 525
Patagonia

PO Box 257
Nogales

O O P Y
PO Box 1525
Bisbee

Patagonia, Arizona, March 10th 1951.

The Alabama Group of Patented Claims, Silver Hills District, Otero County, N. Mex.

The Alabama Group is made up of the Alabama, Monogram, Adah Lee, Mid Day and R.E.C. lode claims, patented as mineral survey No.1089, on June 15th., 1905.

A reconnaissance was made of this property on February 26th 1951 to ascertain its possibilities for production of metals and minerals. Reference is made to the patent-plat for features mentioned in this report.

The ground is situated in the Silver Hills District, Otero County, N. Mexico, about one and one half miles west of Orogrande Post Office which is on the El Paso,-Alamogordo Highway, and about two miles west of the main line of the Southern Pacific Railroad.

The district is an old one, and little work has been done on the property in question for some time. As a consequence it was not possible to enter some of the more interesting-looking workings for examination.

Workings of particular interest are listed below in approximate order of interest for possible future development:

1. MID DAY lode, shaft-tunnel No.2: This is the most extensive work on the property, and was done on a flat-lying bed in the limestone dipping about 20 northeasterly. Most of this work is accessible and a good quantity of sulphides, showing values in copper and zinc is visible on the dump. It is recommended that the workings be entered and sulphides in place be picked and blasted for a look at the fresh materials for sampling and examination.

2. MID DAY lode, opening No.6: This is a large quarry-like opening from which a considerable amount of turquoise is said to have been extracted. Crumbs of this mineral found on the dumps appear to be of good quality and stones from this deposit are known to have retained their good color permanently.

This opening, which is about 30X40X15 feet in size, shows no veins of turquoise in place on the walls, and the bottom is entirely covered with waste shot down from the sides. In view of the large amount of work done, however, and the superior quality of the stones extracted, it is suggested that the loose rock be cleared away and the bottom of the pit carefully examined for extensions of the deposits previously mined.

3. MID DAY lode, shaft No.4: This is a shaft sunk in a large open-cut for the purpose of mining turquoise. The shaft is vertical and is wholly untimbered;

Alabama Group - continued:

it is open to a depth of about 50 feet. It is recommended that this shaft be entered for the purpose of examining the walls for possible veins of turquoise that may still be visible.

4. MID DAY lode, shaft No.5: This is a vertical shaft open to a depth of over fifty feet and wholly untimbered. The vein on which it was struck strikes northeasterly, and is strong. From the appearance of the siliceous material on the dumps it is probable that this work was done for the precious-metals values that may be therein. It is recommended that these openings be entered and samples taken for gold and silver. No base-metal minerals were noted on the dump.

All of the above-mentioned workings are shown in red on the attached copies of the patent-plat; they being the only openings that appeared attractive during this reconnaissance. Claim-corners seen are also shown in red, while those looked forand not found are shown in blue.

While the veins seen are not continuous nor large, this group contains formations that make it have considerable merit. It is suggested that an effort be made to put the several openings in shape so they can be examined. When this is done it will be possible for interested persons to examine the deposits in detail and they can take samples and determine the merit of each area for themselves.

July 24, 1951

Re: NM-1819X

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUL 3 0 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. Joe R. Moffett, Manager
Mid Day Mode
1102 Vermont Avenue
Alamogordo, New Mexico

Dear Mr. Moffett:

Your application for an exploration loan (Docket NM-1819X) under the Provisions of the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. Before final decision can be taken on your request, it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado, with the request that the needed information be supplied to us.

Very truly yours,

Tom Lyon, Director
Supply Division

EGildersleeve:emp
G 7-24-51

Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

July 24, 1951

Ref: [illegible]-1819X

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUL 30 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. Joe [illegible] Moffett, Manager
Mid Day Lode
1102 Vermont Avenue
Alamogordo, New Mexico

Dear Mr. Moffett:

Your application for an exploration loan (Docket [illegible]-1819X) under the provisions of the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. Before final decision can be made on your request, it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Area, [illegible] New Customhouse, Denver 2, Colorado, with the request that the needed information be supplied to us.

Very truly yours,

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Supply Division

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Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
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Br. r. file 4214 GSA
Files

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

224 New Customhouse
Denver 2, Colorado

October 25, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1819-X, Final Report, Joe E. Moffett, applicant Mid Day Zinc Deposits, Silver Hill (Orogrande) Mining District, Otero County, New Mexico

The subject report has been approved by us and an exploration loan of $2,500 is being processed.

Your copies of the report and the brochure are being held here until the execution of the exploration project contract.

J. H. East, Jr.

A. H. Koschmann

CC: WRStorms w/copy of final report
CAnderson w/copy of final report
PTAllsman w/copy of final report
AHKoschmann w/copy of final report
DMA Final Report

6-18-52- 4 copies sent to W.O.
applicant requested withdrawal.

Mining Division
Region IV

October 25, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1819-I, Joe R. Moffett, applicant, Mid Day Zinc Deposits, Silver Hill (Orogrande) Mining District, Otero County, New Mexico

The application of the subject docket was for an exploration loan of an unspecified amount.

The ore exposed on the claims consists of sphalerite, partially oxidized to smithsonite, as a replacement in highly garnetized and marbelized limestone. The major part of this limestone has been removed by erosion, which has uncovered the monzonite intrusive.

There are not any measureable reserves, and indicated reserves are only 41 tons of 22%. There are little data for estimating inferred reserves, but these may amount to 6,000 tons of 20 percent zinc ore.

The applicant did not submit details as to the proposed project, but the examining engineer suggests two drifts of 30 feet each on the present showing of ore, and recommends approval of a loan of $2,500.

The applicant has sufficient resources to supply his part of the cost of the project.

We concur with the recommendation of the examining engineer, with the provision that one of the miners should be competent to supervise the operation.

An exploration project contract is being processed.

Paul T. Allsman

Paul T. Allsman

Mining Division
Date Rec'd.

OCT 22 1951

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

October 18, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Final Report, DMA Docket 1819X, Joe E. Moffett's Mid Day Zinc Deposits, Silver Hill (Orogrande) Mining District, Otero County, N. Mex.

Enclosed are original and 7 copies of the above report by J. H. Soule' of the Bureau of Mines. No separate geological report will be submitted by the Geological Survey.

Although the author of this report states that the possibilities of finding much zinc ore seem remote, he has recommended that a total loan for $2,500 be made.

The report has my approval.

Brochure is enclosed.

Walter R. Storms

CC P. T. Allsman (7)
C. A. Anderson
DMA-1819X
DF

WRStorms:frj

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1619X, Joe E. Moffett's Mid Day Zinc Deposits

Silver Hill (Oregrande) Mining District

Otero County, N. Mex.

John H. Soule', Mining Engineer

U. S. Bureau of Mines

October 1951

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By John N. Seule 1/

The Mid Bay claim of the patented Alabama group in the Silver Hill (Orogrande) Mining District, Otero County, N. Mex., is owned by Joe E. Maffett of Alamogordo, N. Mex. Maffett applied to the Defense Minerals Administration in June 1951 for an exploration loan on the property. The application, Docket DMA-1819X, was sent to the field for an inspection. This examination was made by the writer on September 12, 1951.

Very little ore has been produced from this group of claims and on only one, the Mid Bay, was any appreciable base metal mineralization noted. Appreciable zinc with a small amount of copper and lead were noted in two small exposures near the southeasterly limits of the Mid Bay claim.

The zinc minerals occur as replacements in limestones which have been highly garnetized and marbelized. The limestone occurs as remnants after erosion has removed the bulk of this formation and has exposed the monzonite intrusive that lies beneath it.

Although the possibilities of discovering large ore bodies on the Mid Bay claim are remote, the presence of zinc minerals in two places seems to indicate that a small amount of exploratory work would be worthwhile. This work should consist of drifting

1/ Mining Engineer, Bureau of Mines

on the known ore exposures. From the results of this project additional exploratory work in the area, especially to the southeast in the limestone flanks of the intrusive, might be suggested.

The program was planned by the examining engineer from data contained in the applicant's proposal and from data obtained from an examination of the property. The suggested project will cost about $2,500 and should be completed in one month. The applicant and the Government would share equally the costs of exploration.

It must be considered that while the success of the project is improbable, it may be possible to discover sufficient ore to repay the loan and to result in geological evidence that may indicate better ore deposits in the area. Under these conditions, the project is recommended.

JOE E. MOFFETT'S MID DAY ZINC DEPOSITS
SILVER HILL (OROGRANDE) MINING DISTRICT
OTERO COUNTY, NEW MEXICO
DMA-1819X

Engineering Report

By John H. Soule
Mining Engineer
Bureau of Mines

October 1951

JOE E. MOFFITT'S MID BAY ZINC DEPOSITS
SILVER HILL (ORORGRANDE) MINING DISTRICT
OTERO COUNTY, NEW MEXICO
DMA-1819X

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INTRODUCTION

In June 1951, Joe E. Moffett of Alamogordo, N. Mex. applied to the Defense Minerals Administration for an exploration loan under the Defense Production Act of 1950. It was intended to explore the Mid Day claim of the Alabama Group which Moffett owns and which is located in the Silver Hill (Orogrande) Mining District, Otero County, N. Mex. The application, Docket DMA-1819X, was sent to the field for an examination of the property to supply some data that was either missing or was not clear.

The district has had an appreciable past production of iron, copper, precious metals and turquoise. Other than turquoise, little production has been made from the Alabama group, although sampling has disclosed the presence of zinc minerals.

ACKNOWLEDGMENTS

Acknowledgment is made of the assistance rendered by Joe E. Moffett, who showed the examining engineer over the property.

LOCATION, TOPOGRAPHY AND CLIMATE

The Mid Day lode claim is one of 5 patented claims in the Alabama Group. This group is located in sec. 10, T. 22 S., R. 8 E., in the Silver Hill (Orogrande) Mining District, Otero County, N. Mex., (see figures 1 and 2).

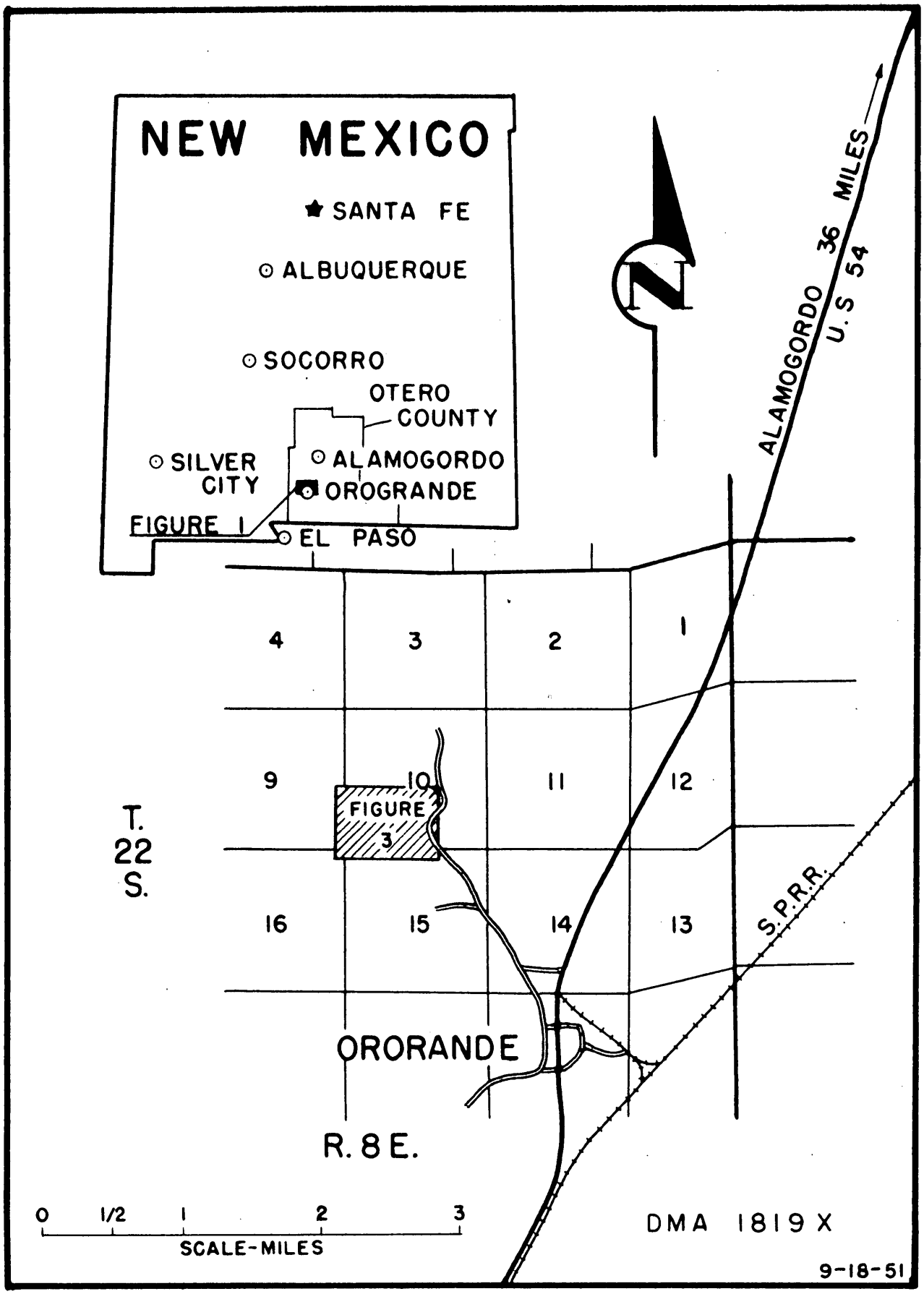

FIGURE 1-LOCATION MAP, ALABAMA GROUP (MID DAY LODE), OTERO COUNTY, N. MEX.

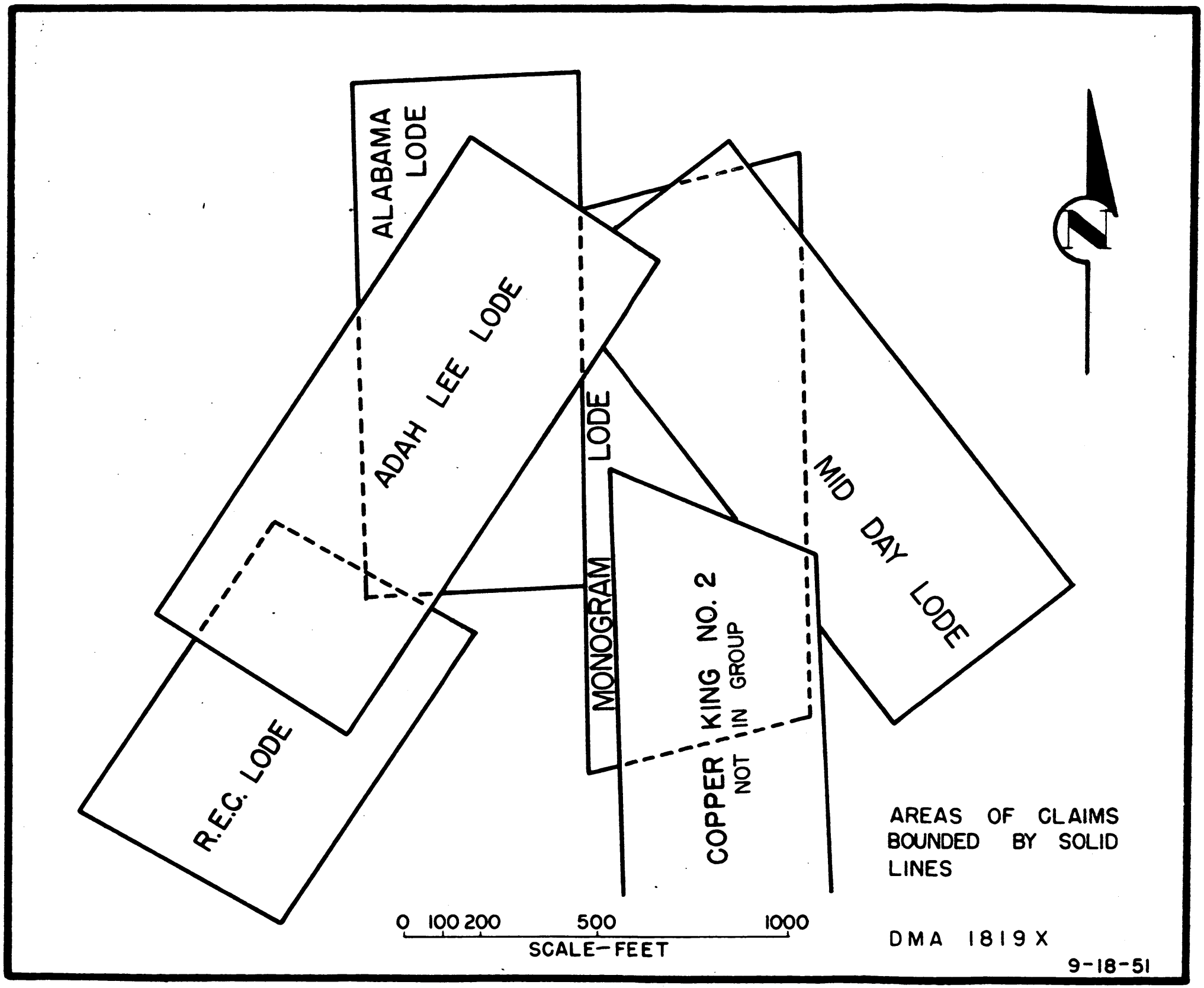

FIGURE 2.-CLAIM MAP, ALABAMA GROUP (MID DAY LODE), SURVEY NO. 1089

The mine is reached by traveling the well-graveled road northwest from Orogrande past a borrow pit and up the canyon for a distance of 1½ miles. A range fence is encountered across this road at this point. The property lies just north of the fence and west of the main creek (see figures 1 and 3).

The small town of Orogrande is 36 miles south and a little west of Alamogordo, N. Mex., and 50 miles north and a little east of El Paso, Texas. El Paso would be the source of mining supplies and equipment. A railroad loading-ramp is located ½ mile southeast of Orogrande and about 2 miles from the property.

The property is situated in the southeastern part of the Jarilla hills, a small desert range of mountains about 10 miles long in a north-south direction and nearly 5 miles wide. The hills are completely flanked by alluvium and rise about 700 feet above the valley floor. The mean altitude of the property is about 4,500 feet. The highest point rises to an altitude of 4,851 feet. The slopes are steep in places but the topography is generally not rugged (see figure 3).

There are no permanent streams in the area, so water must be imported. The Southern Pacific railway has a reservoir near the property, the water being brought from the Sacramento Mountains to the east by pipe line. The pipe line is reported to be 26 miles in length. There are no data on the depth of the water in the area of the claims.

The average yearly precipitation is estimated to be about 10 inches. Summers are hot. Cold winter weather is neither severe nor prolonged.

Usual desert flora exist. There is no timber suitable for mining purposes.

HISTORY AND PRODUCTION

Although the Orogrande district has been known and prospected since 1879, the first attempts to conduct mining operations occurred about 1900. Precious and base metals were sought, as well as some turquoise. In 1907, a matting furnace was installed which operated intermittently for 2 years and treated copper ores. Base metal production since that time has been sporadic and small. In 1916, there was considerable activity in the iron mines. These were operated until 1921 when the increasing sulfur content and the decreasing iron content of the ores made them undesirable.

The approximate production of metals from the Orogrande area is shown in the following table:

Metal	Amount
Gold	$300,000
Silver	50,000 oz.
Copper	6,500,000 lbs.
Lead	1,400,000 lbs.
Iron	230,000 tons

The total value of these ores was approximately $2,800,000. A little tungsten was reportedly produced from the district, as well as an unknown amount of turquoise.

From the small mine workings on the Alabama group of claims, there has been very little production of base metal or iron ores. Any small production seems to have been derived from the Mid Day claim, the most easterly of the group, as shown in figure 2. A considerable part of the district production of turquoise may have been obtained from this group of claims.

OWNERSHIP AND EXTENT

The Alabama group of claims consists of 5 patented lode claims. This group, Survey 1089, was patented in 1903 and consists of the following claims: Mid Day Lode, Alabama Lode, Adah Lee Lode, R. E. C. Lode, and the Monogram Lode. The claims are shown in figure 2. There is considerable overlap of the various claims so the area of the group is but 58.159 acres.

The claims are owned by Joe E. Moffett of Alamogordo, N. Mex. Moffett has paid the taxes for at least the last 4 years, as noted from the tax receipts.

DESCRIPTION OF THE DEPOSITS

The Alabama group of claims is located in the southeastern part of the Jarilla Hills. These hills once consisted of sedimentary rocks of probable Pennsylvanian age that were domed and intruded by an irregular stock of monzonite and some minor intrusives. Subsequent erosion has removed most of these sedimentary rocks leaving only small patches of limestone within the hills. This formation becomes thick on the flanks where it dips away from the hills and into the valley floor.

Two small remnant patches of limestone are present on the Alabama group, as well as a tongue of the flanks which just enters the southeastern part of the group. This tongue is the limestone shown in figures 4 and 5. The patches are obviously shallow and can contain no sizable ore bodies, so consequently are of little interest. The tongue is more extensive than the patches and may contain ore bodies, especially down dip to the southeast and probably beyond the claim boundary. This is indicated in section in figure 5.

The sedimentary rocks consist principally of limestones with some interbedded shale. Near the contact with the intrusive, alteration is intense with the formation of magnetite, garnet, and other silicate rocks. Some marbelization was noted. Sphalerite was noted in 2 short adits on the Mid Day claim. The exposures are shown in figure 4 and the assay results are listed as follows:

Assay Results

Sample No.	Length, ft.	Percent Cu	Pb	Total Zn	Oxide Zn
1	3.0	1.00	0.15	14.95	4.40
2	1.7	0.20	0.10	38.50	——

The sphalerite occurs as a replacement of a limestone bed in Sample No. 2 and is wholly unoxidized. In Sample No. 1 the zinc is partially oxidized and occurs near a fracture in the metamorphosied limestones.

ORE RESERVES

There are practically no measured ore reserves on the property. Indicated reserves are small and are tabulated as follows:

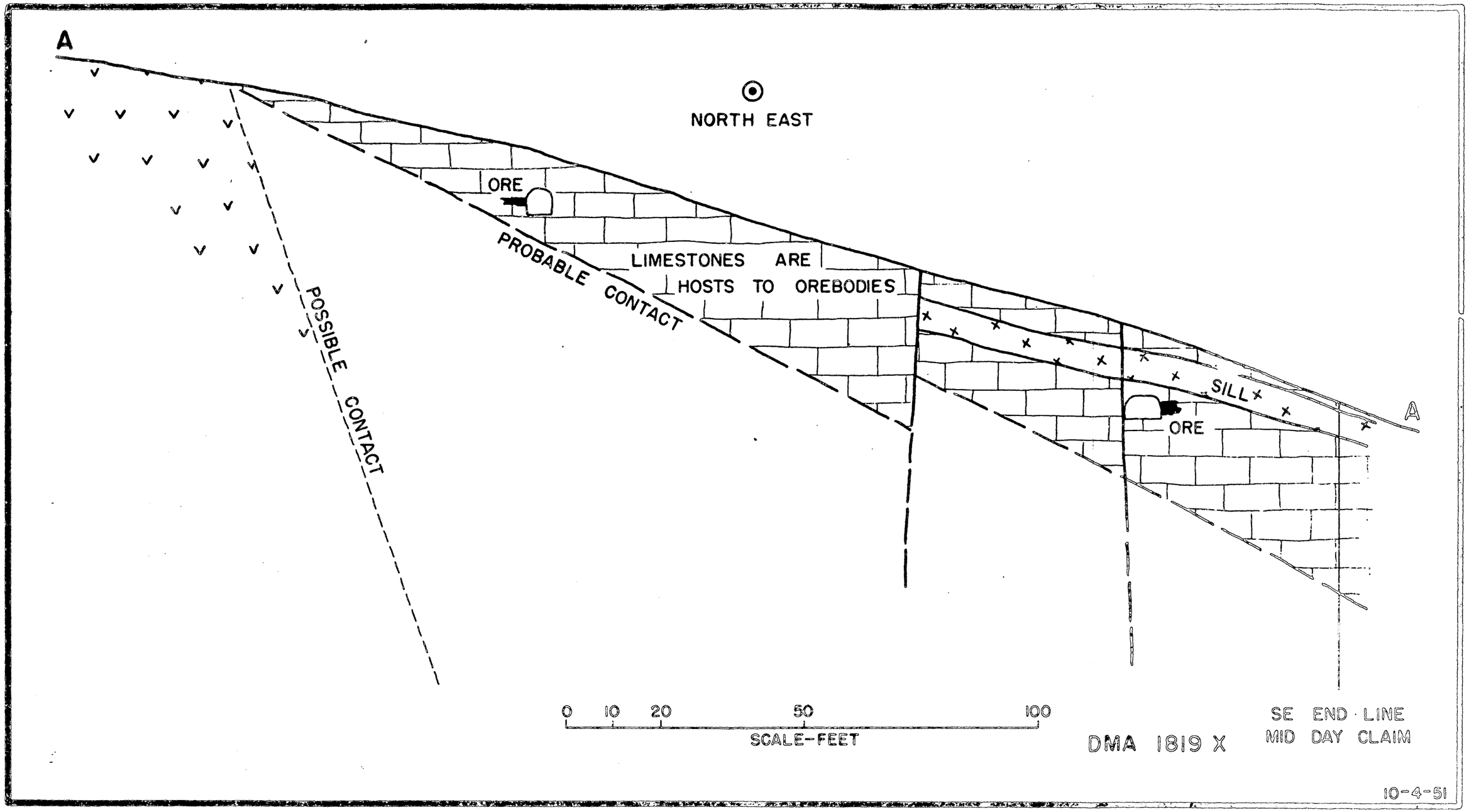

FIGURE 5.—SKETCH SECTION A—A, MID DAY LODE

Sample No.	Tons	Sulfide Zinc Percent
1	24	10.55
2	17	38.50

There are very little data available to compute inferred reserves, but assuming that one limestone bed was replaced over the lateral extent of the sedimentary outcrop, shown in figure 4, and that mineralization is 3 feet thick, an expectable inferred reserve would be on the order of 6,000 tons of zinc ore. As there is a probable maximum of 44,000 tons of altered sedimentary rocks within the claim boundaries and as surface and subsurface indications show a very small percentage of this rock to contain zinc mineralization, the 6,000 tons of inferred ore may be considered the maximum quantity of ore that could exist within these boundaries.

PRESENT STATUS

The property is idle at the present time and has been idle for many years. There are no extensive workings, only shallow adits, shafts, and pits. Two of the most important adits were recently cleaned out for inspection and sampling. These are shown in figure 4.

There is no equipment of any kind on the property.

PROPOSED EXPLORATION

Practically no details of the proposed exploration were given in the application for Government assistance. Conversations with the owner disclosed that he had very little idea of what was to be done.

In view of the fact that zinc mineralization does occur, it may prove advantageous to perform a small amount of exploratory work on the Mid Day claim. While it is known that no extensive zinc ore deposits can occur on this claim, small lenses of fairly high-grade ore may occur. The exploration of these may give valuable clues to the existence of larger ore bodies outside of the claim limits to the southeast.

The following program is suggested as the quickest and cheapest method of exploring the deposits. It is based on the fundamental idea of following the ore. Two short drifts of about 30 feet in length driven from points inside the adits should suffice. One should be driven from the point marked Sample No. 1 on figure 4. This drift should be driven easterly to start and then follow in the direction of mineralization. The second tunnel would start northerly from Sample No. 2 and follow the ore. It would be better, perhaps, to start and concentrate on the Sample No. 2 location as it is here that high grade mineralization occurs.

Including the time necessary to prepare for the tunnel work, this program should be completed in one month. Subsequent work can be planned from the results obtained in this preliminary exploration.

ESTIMATED COSTS

As the project has a short life, all major items of equipment should be obtained on a rental basis with the rental applied to purchase if subsequent events warrant. The major items are listed as follows with 10 percent of the new price estimated as rental:

Compressor, 165 cfm	$390
Tugger hoist, with 200 ft. of cable	75
Rock drill, hoses and pressure tank	75
Mine car	20
	$560

As the original adits shown in figure 4 are in part inclined, the small hoist is necessary to pull the cars out of the underground workings.

Other necessary materials may not be rentable but may be obtained in a used condition. However, the following tabulation is estimated on the basis of new costs:

Drill steel and bits	$75
300 feet of track, 12 lb. rail	200
300 feet of 1½-in. pipe and fittings	80
Small tools, shovels, lamps and extras	200
	$555

The following supplies and services will be necessary:

Explosives	$80
Gasoline and oil	160
Freight on supplies	140
Water and supply haulage	50
Carbide and other small items	50
Tent for laborers	65
Analyses	30
	$575

The application states the need of 3 men (2 miners and a mucker) to be paid $6.00 per day. It is doubtful if qualified miners can be obtained at this rate. Ten dollars per day would be a better rate.

The following wage table is based on this increased wage:

3 men at $10.00 per day for 27 days ---------- $810

The costs are recapitualted as follows:

Equipment rental	$560
Pipe, track and tools	555
Supplies	575
Labor	810
	$2,500

PROPOSED FINANCING

Mr. Maffett, owner of the Alabama group of claims, states that he has sufficient resources to cover his share of a small exploration project. Under the Defense Production Act, the costs of a project as outlined would be equally shared by the applicant and the Government.

CONCLUSIONS

Although the potentialities of finding sizable zinc ore bodies on the Mid Day claim of the Alabama group are very small, some exploratory work seems justified to determine the extent of 2 known unexplored areas where zinc mineralization is known to exist. A small amount of drifting, starting on the known areas of mineralization and following this mineralization, appears to be the simplest way of exploring the possible deposits. This work may give geologic information of value to the district in locating other ore bodies.

RECOMMENDATIONS

It is recommended that a small exploration project, costing $2,500, be approved, with the Government and the applicant sharing the costs on an equal basis. The phases of the recommended project are recapitulated as follows:

1. The work will consist of driving 2 short drifts, each following the mineralized zone. One will start at a point marked Sample No. 1 in figure 4 and the other will start at the point marked Sample No. 2 of the same figure.

2. As the project will last but a short time, no facilities are necessary other than a tent to house the laborers during the period of the project, about one month. A tent would cost about $65.

3. There is no equipment on the property and a complete mine plant must be obtained. All of the major items should be acquired on a rental basis with option to purchase if the results obtained by the preliminary project warrants purchase of the equipment.

4. Only 3 men will be required for this project. The applicant states that these are available. The supervision will be done by the applicant at no cost to the project.

5. Very little rehabilitation will be necessary other than laying track and pipe to the various working places. A small amount of road work is necessary to reach the property. The few hundred feet of road can be made passable in less than 3 man-shifts.

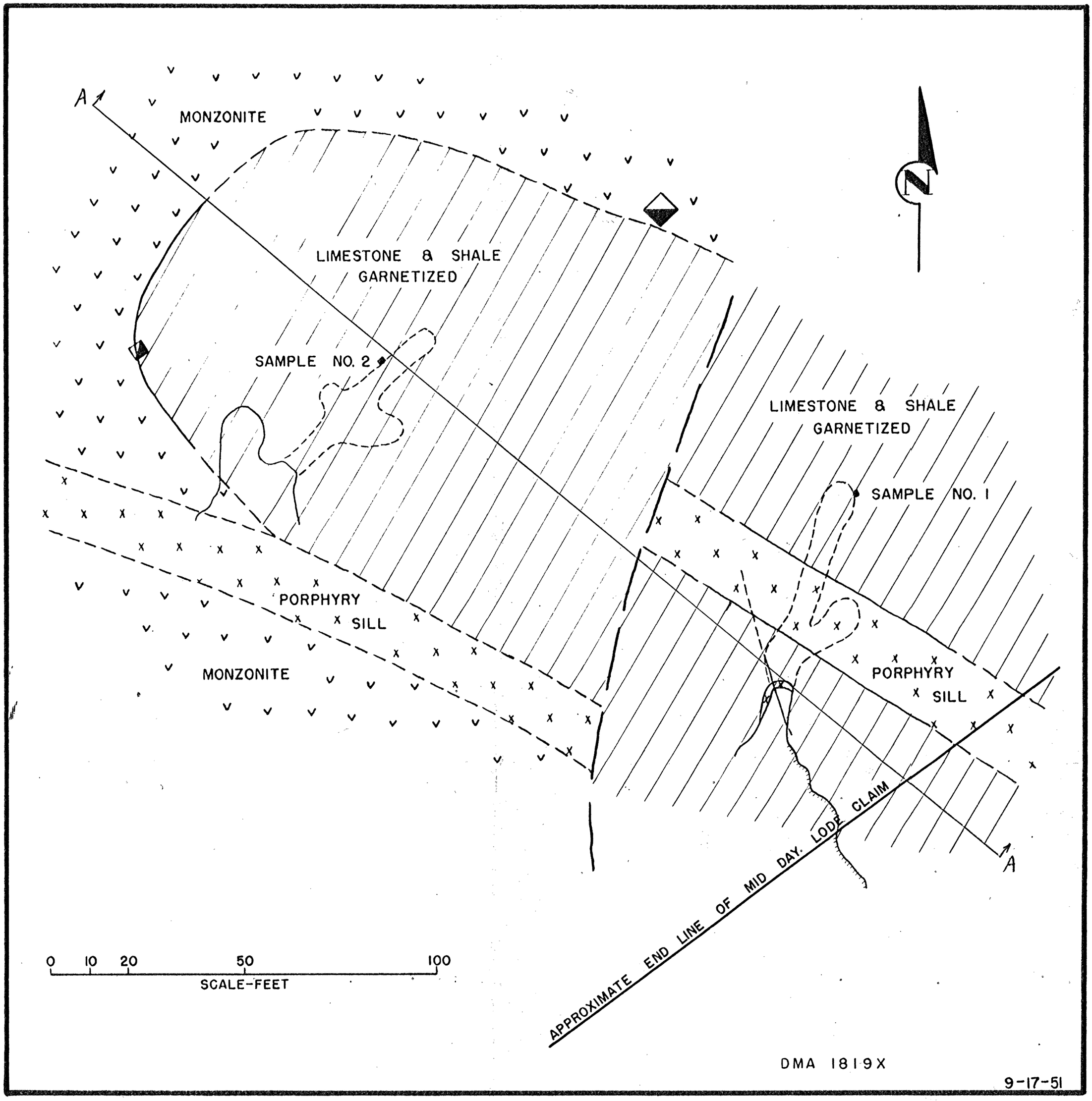

FIGURE 4.-SKETCH OF GEOLOGY AND UNDERGROUND WORKINGS OF MID DAY LODE (ALABAMA GROUP)

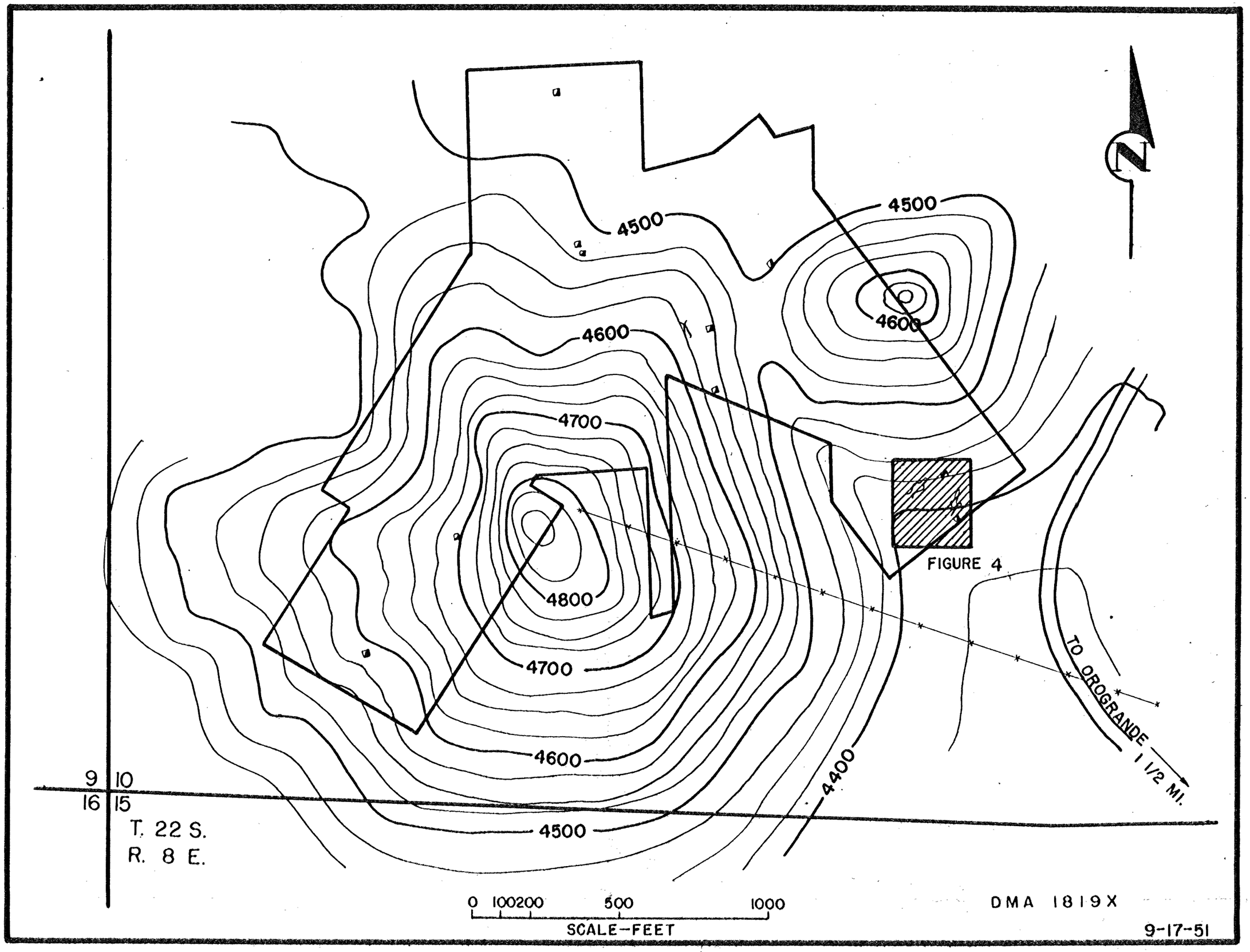

FIGURE 3.-TOPOGRAPHIC SKETCH AND ALABAMA GROUP CLAIM OUTLINE (MID DAY LODE ON EAST)