UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
JAN 19 1953
BUREAU OF MINES
Denver, Colorado

January 15, 1953

Memorandum

To: W. H. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA-2046, The Barite Corp., quartz crystal deposits, Juab County, Utah - your memorandum of January 13, 1953

The letter attached to your memorandum of above date has been mailed to the applicant. The letter meets with my approval.

Stephen R. Wilson
Stephen R. Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

January 15, 1953

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Stephen R. Wilson

Stephen R. Wilson

224 New Customhouse
Denver 2, Colorado

January 13, 1953

Memorandum

To: S. R. Wilson

From: Executive Officer, Field Team, Region IV

Subject: Docket DMEA 2046, The Barite Corporation

Enclosed are the original and one copy of a letter to the Barite Corporation signed by the Executive Officer, Field Team, DMEA. If this letter meets with your approval please send it to the applicant. Please notify us immediately of your disposition of this letter.

W. H. King
W. H. King

Enclosures

JFS:oc

cc: Subject
Chron.
AHKoschmann (2)

224 New Customhouse
Denver 2, Colorado

January 13, 1953

Mr. Ralph Gesas, President
The Barite Corporation
P. O. Box 74
Idaho Falls, Idaho

Re: DMEA Docket 2046

Dear Mr. Gesas:

Your application for exploration assistance, Docket DMEA 2046, has been held in abeyance because we understood that you were going to obtain a lease on additional land on the Goshute Indian Reservation.

Our Washington office contacted Mr. H. F. Larkin, Chief, Land Minerals Section, Washington Office of the Bureau of Indian Affairs and he has indicated that his office has not received an application for lease of the additional land.

We also learned from Mr. Burton A. Ladd, Superintendent, Nevada Agency, Bureau of Indian Affairs, Stewart, Nevada, that your company had withdrawn the request for a lease on additional land.

We therefore assume that you are no longer interested in exploration assistance. If we do not hear from you within 30 days we will place your docket in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer
Field Team, Region IV

JFS:oc
cc: SKWilson
Subject
Charon.
Koschmann (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Mining Division
Date Rec'd.
JAN 5 - 1953
BUREAU OF MINES
Denver, Colorado

JAN 2 1953

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2046 - Quartz Crystal
The Barite Corporation
Goshute Indian Reservation
Juab County, Utah

Dear Mr. King:

Reference is made to your memorandum of December 16, 1952, on the subject application for exploration for quartz crystal on the Goshute Indian Reservation.

This office has contacted Mr. H. F. Larkin, Chief, Land Minerals Section, Washington Office of the Bureau of Indian Affairs and he has indicated that his office has not received an application for lease of the additional 800 acres of land.

The DMEA recently learned from Mr. Burton A. Ladd, Superintendent, Nevada Agency, Bureau of Indian Affairs, Stewart, Nevada, that The Barite Corporation have withdrawn their request for a lease on the additional 800 acres. Is it possible that The Barite Corporation are no longer interested in obtaining exploration assistance?

Inasmuch as this is a Region IV delegation, this office believes it would be best that Region IV write The Barite Corporation inquiring of their wishes in this matter. It is noted in a memorandum of May 15, 1952, from the Field Team of Region IV to the Acting Administration, "Exploration assistance in the amount of $10,176 has been approved for The Barite Corporation and the contract will be prepared by this office".

Sincerely yours,

Frank E. Johnson
Chairman, Operating Committee

Approved:

T. N. Hedges
Member, Bureau of Mines

A. P. Kirkwood Jr.
Member, Geological Survey

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

600

JAN 2 1953

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2046 - Quartz Crystal
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Goshute Indian Reservation
Juab County, Utah

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Sincerely yours,

Frank E. Johnson

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

224 New Customhouse
Denver 2, Colorado

February 25, 1953

Memorandum

To: Secretary, Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA - 2046, The Barite Corporation, Goshute Indian Reservation, Juab County, Utah

Enclosed are three (3) copies of the final report on Docket No. DMEA 2046. The application has been cancelled and has been transferred to our inactive files.

W. H. King

W. H. King

Enclosure

JFS:fwo

cc: Subject
Chron

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 3/7/52

REFERRED TO:

1. ~~King~~ W.H.K.
2.
3. Shaw
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Memo from Wilson enclosing brochure of DMA 2046, The Barite Corp.

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
MAR 7 - 1952
BUREAU OF MINES
Denver, Colorado

March 5, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 2046, The Barite Corp., No Name Quartz Crystal Deposits, Goshute Indian Reservation, Juab County, Utah

Enclosed is the original brochure of the subject docket. The Survey examined the property and submitted a geologic report February 28, 1952. The Bureau of Mines did not participate in the examination.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

March 5, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 2046, The Barite Corp., No Name Quartz Crystal Deposits, Goshute Indian Reservation, Juab County, Utah

Enclosed is the original brochure of the subject docket. The Survey examined the property and submitted a geologic report February 28, 1952. The Bureau of Mines did not participate in the examination.

Stephen R. Wilson

Enclosure

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 6/6/52

REFERRED TO:

1. ~~King~~ Wilson
2.
3.
4. Shaw

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
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..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Memo from Wilson re: examination of property, DMA 2046, Barite Corp.

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
JUN 6 - 1952
BUREAU OF MINES
Denver, Colorado

June 4, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 2046, The Barite Corp., Goshute quartz crystal deposits, Juab County, Utah.

An examination was made of the subject property May 28, 1952, to determine the relation of quartz deposits to boundaries of the property held under lease. A study of aerial photographs in conjunction with the Survey disclosed that several of the quartz outcrops lie outside the boundary of the lease. I advised Mr. Ralph Gesas of the Barite Corp. and suggested inclusion of additional property within the lease. He agreed to ask the Washington Office of Indian Affairs for lease of a larger block.

Completion of a contract covering the property should await granting of the additional lease.

Stephen R. Wilson

Stephen R. Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

June 4, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 2046, The Barite Corp., Goshute quartz crystal deposits, Juab County, Utah.

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Stephen R. Wilson

Stephen R. Wilson

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

224 New Customhouse
Denver 2, Colorado

April 28, 1952

Memorandum

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

From: Executive Officer, Field Team, Region IV

Subject: Contract for Barite Corporation, Docket DMA 2046, Quartz Crystals

A contract is being prepared for the Barite Corporation under Docket DMA 2046. The property is on the Goshute Indian Reservation, Juab County, Utah. Our understanding is that the Washington Office of DMEA will arrange with the Washington Office of Indian Affairs for Subordination Agreements.

It is not the policy of Region IV to allow all copies of contracts which have been signed by a representative of the Government out of the possession of a representative of DMEA. We believe the proper procedure in this case would be to send the contract to Washington so that the Subordination Agreement can be obtained and have all six copies of the unsigned contract returned to the Region IV office for transmittal to the applicant for signature, the reason being that the operator is in Idaho Falls, Idaho and if the contract were signed by a representative of the Government, it would be necessary for one of our field engineers to go to Idaho Falls, Idaho, or for the applicant to come from Idaho to the Salt Lake office. This might work a hardship on the parties concerned and it could be eliminated by having the operator sign the contracts first.

If the contract number were assigned and the money allocated at the time the Subordination Agreement was obtained, it would eliminate returning the contract to the Washington office.

OK, to have contract signed in ~~blank~~ by contractor then ~~signed~~ sent to Wash. and get subordination agreements.

W. H. King

W. H. King, for
J. H. East, Jr.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

WASHINGTON 25, D. C.

April 28, 1952

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To: C. O. Mittendorf, Acting Administrator
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W. H. King
W. H. King, for
J. H. East, Jr.

JFS:ld

cc: Contract, chron.
Koschmann
Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
APR 28 1952
BUREAU OF MINES
Denver, Colorado

April 25, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA-2046, The Barite Corp., Goshute quartz crystal deposits, Juab County, Utah. Your memorandum of April 16, 1952

The following information is submitted to aid in completion of a contract:

Part 1

It is probable that services of a geologist will be required to properly evaluate the trenching completed by the bulldozer. It is believed that 5 days at $50 per day will sufficiently cover this work. Hand work necessary to expose geologic conditions can be handled by one man at mucker's rate of $13.50 per shift. Ten shifts should be sufficient for this work. Thus, under Labor, Supervision, Compensation for part 1 should be added the following amounts:

1 geologist at $50 per day, 5 days	$250.00
1 mucker at $13.50 per day, 10 days	135.00
	$385.00
Compensation, insurance, payroll taxes	52.00
Total	$437.00

Part 2

The test pit work was planned for completion by hand drilling instead of machine drilling because the rugged terrain will prevent placing a compressor at all sites without road construction. Under the circumstances, it is believed to be more economical to do the work by hand at some locations. However, as the compressor will be used wherever possible, I believe it desirable to rent operating equipment as shown in the rough draft of the contract.

Supplies listed in the geologic report include an item of transportation. This was not set up for transporting men to living quarters, but for movement of men and equipment on the job. Actually, it could better be shown as rental on a pickup truck with gas and oil over the period of test pit work as shown.

Part 3

Rental for compressor and hoist, as shown in the geologic report, is too high. However, the Western Machinery Co. rental for a 210 cfm. compressor is $288 per month. A small hoist may be rented for $60 per month. The rental for a jackhammer with 50 feet of hose and attachments is $55 per month.

The labor and supervisory schedules, as shown in the rough draft of the contract, are satisfactory. I discussed the rates with Ralph Gesas, president of the Barite Corp., and he believes they are sufficient as listed in the contract. The miner's rate of $15 per day, as shown in the geologic report, includes compensation, insurance, etc.

I have penciled suggested changes on the rough draft of the contract. No allowance has been made for transportation of the compressor to and from the project. I have inserted an estimate of $250.

A map showing the location of the proposed work in relation to the property lines will be prepared by the Survey. Nine copies of the map will be forwarded to you within a few days.

All data included with your memorandum of subject date are enclosed.

Stephen R Wilson
Stephen R. Wilson

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
APR 28 1952
BUREAU OF MINES
Denver, Colorado

April 25, 1952

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

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Stephen R Wilson
Stephen R. Wilson

Enclosures

MF-200
(June 1951)

Docket No. DMA 2046

Commodity Quartz Crystal

ROUGH DRAFT

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] The Barite Corporation
P. O. Box 74
Idaho Falls, Idaho

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 Utah, County of Juab described as follows: [3] SE¼ of SE¼ Sec. 27, E½ of NE¼ and NE¼ of SE¼ of Sec. 34. Also the following portions of unsurveyed Sec. 26 and Sec. 35: SW¼ of SE¼ and S½ of SW¼ Sec. 26, W½ of NE¼, NW¼, N½ of SW¼, and NW¼ of SE¼ Sec. 35, all in T. 11 S., R. 19W. SLB&M

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

~~(a) That he is the owner, in possession and entitled to possession, and that the property is subject only to the following encumbrances, the exact nature of which the undersigned understands and of which the undersigned accepts the subordination agreement of the lessor 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] Quartz Crystal; 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] five (5) 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 90 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $7,917.30, which is 90 percent of the agreed estimated total cost of this project, $8,797.00.

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

By _____
Regional Director - Region IV
U. S. Bureau of Mines

_____
(Operator)

By _____

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

EXHIBIT A

Exploration Project

The proposed project consists of three parts. Part 1 consists of exploring the favorable area by stripping with a bulldozer. The location of the proposed trenches is shown on the attached map. Part 2 consists of sinking test pits at favorable locations disclosed by the stripping. The locations of the test pits will be selected after part or all of the stripping is completed, and must be acceptable to the DMEA representative. Part 3 consists of timbering the existing shaft and sinking the shaft an additional 20 feet. The location of the proposed work in relation to the property lines is shown on the attached map.

The estimated working time is three months.

The following costs are estimated:

	Part 1	Part 2	Part 3	Total	
		873.00	1156.00		
Rental of Equipment	1740.00	219.00	888.00	~~2847.00~~	3787.00
Labor, Supervision, compensation	437.00	2100.00	1600.00	~~3700.00~~	4137.00
Supplies		650.00	1100.00	1750.00	1750.00
Fixtures & improvements	500.00			500.00	500.00
Total	~~$2240.00~~ 2677.00 Part 1	~~$2969.00~~ 3643.00	~~$3588.00~~ 3856.00	~~$8797.00~~	10,176.00

Fixtures and Improvements

Three tents with wooden floors and walls $500.00

Operating Equipment

To be rented:

Rental of bulldozer, D-7 Caterpillar or equivalent, with operator and supplies. 120 hours @ $12.00 per hour	$ 1440.00
Drayage	300.00
	$ 1740.00

Jerry Boyd 5 days @ $50.00	250.00
1 Driller 10 days @ $13.50	135.00
Comp. insurance etc	51.00
	437.00

Part 2

Operating Equipment

To be rented:

Compressor 210 c.f.m. ~~$164.00~~ 288.00 per mo.		$ ~~164.00~~ 288.00
Jackhammer, $55.00 per month		55.00
Pickup truck, $300 per month		300.00
Total estimated rental -		$ ~~519.00~~ 643.00
Transportation of equipment		250.00

with hose & attachments

Labor and Supervision

2 miners at $15.00 per day	
2 muckers at $13.50 per day	
1 Supervisor at $500.00 per month	
1 Geologist at $50.00 per day (prorated)	
Compensation, insurance, payroll taxes	$ 250.00
Total estimated labor and supervision	1850.00

The daily wage for miners and muckers is based on an 8-hour day, 5-day week. Time and one-half is allowable for overtime.

Supplies

Explosives	$ 150.00
Drill steel, bits	150.00
Misc. small tools	150.00
Gasoline, oil	200.00
Estimated cost of supplies	$650.00

Part 3

Operating Equipment

To be rented:

Pick-up truck, $300.00 per month		$300.00
Compressor, 210 c.f.m. $164.00 per month 288.00	~~328.00~~	576.00
Jackhammer, $55.00 per month		110.00
Air hoist, $50.00 per month 60	~~100.00~~	120.00
Air-driven pump at $50.00 per month		50.00
Estimated rental	~~$888.00~~	1156.00

with hose & attachments

Part 3 -(Contld)

Labor and Supervision

2 miners at $15.00 per day	
2 muckers at $13.50 per day	
1 supervisor at $500.00 per month	
1 geologist at $50.00 per day (prorated)	
Compensation, insurance, payroll taxes	$200.00
Total estimated labor and supervision	$1400.00

The daily wage for miners and muckers is based on an 8-hour day, 5-day week with time and one-half for overtime.

Supplies

Explosives	$160.00
Gasoline, oil	140.00
Timber	500.00
Pipe	50.00
Drill steel and bits	100.00
Small tools	150.00
Estimated cost of supplies	$1100.00

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
29 February 1952

Memorandum

To: A. H. Koschmann, Field Team, Region IV

Subject: DMA Docket 2046, The Barite Corporation, Goshute Quartz Crystal Deposits, Goshute Indian Reservation, Juab County, Utah.

Enclosed are eight copies of a geologic report of the Goshute Quartz Crystal deposit on the Goshute Indian Reservation, Juab County, Utah, under lease by the Barite Corporation, Idaho Falls, Idaho.

The piezoelectric quartz that has been mined is in a pegmatite dike that cuts quartz monzonite. The pegmatite has yielded considerable quartz that may meet Signal Corp specifications.

Several other quartz-bearing pegmatites and veins are known throughout the area, but so far no quartz of piezoelectric quality has been discovered from these other deposits.

A limited exploration program has been outlined with the applicant to obtain preliminary geologic data, and to thoroughly explore the area. Exploration will be by bulldozer trenching and by digging test pits on all locations favorable for the occurrence of quartz crystals of piezoelectric quality, and by extending the present shaft an additional 20 feet.

It is concluded that there is a fair chance of finding additional deposits of piezoelectric quartz in the Goshute Quartz mine property, and it is therefore recommended that the Defense Minerals Exploration Administration enter into a contract with the applicant to do the proposed work herein outlined. The total cost of the project is $8,187.24. On a 90-10 percent participation basis, the government's share will be $7,364.01.

There was no field team request for an engineering report by the U. S. Bureau of Mines, however, they aided materially in outlining the exploration costs.

I concur with the recommendations of the examining geologists.

J. William Hasler
For - Ralph J. Roberts

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA 2046, The Barite Corporation

Goshute Quartz Crystal Deposits

Goshute Indian Reservation

Juab County, Utah

R. J. Roberts, J. W. Hasler, and B. J. Sharp
Geologists
U. S. Geological Survey

February 29, 1952

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Quartz Deposits	4
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LIST OF ILLUSTRATIONS

Figure 1. Index map of Western Utah.

Figure 2. Sketch map of workings, Goshute Quartz mine, Juab County, Utah.

Docket DMA 2046, The Barite Corporation

Goshute Quartz Crystal Deposits

Goshute Indian Reservation

Juab County, Utah

INTRODUCTION

The Goshute Quartz deposit was visited August 18 and 19 by George Bywater of the Conservation Branch, U. S. Geological Survey, Hugh Waesche, Signal Corps, and Ralph J. Roberts, Mineral Deposits Branch, U. S. Geological Survey, to evaluate the deposits as a possible source of piezoelectric quartz. The deposits were again visited October 30 - November 1 by J. William Hasler and Byron J. Sharp of the U. S. Geological Survey in response to a request for a field examination by the Field Team, Region IV, Defense Minerals Administration.

Location and Accessibility

The Goshute Quartz deposit is in Juab County, Utah, on the west flank of the Deep Creek Range (fig. 1) 76 miles by road south of Wendover, Utah. The property can be reached by travelling 27 miles south from Wendover, U. S. Highway 50, then turning southeastward for 32 miles to Ibapah, Utah, then continuing 15 miles southeastward to the property. The workings are at an altitude of about 7,700 feet on the north side of Dads Creek and on the long ridge east of the Queen of Sheba Mine, which is south of the quartz crystal property.

History and production

Quartz showings were first discovered by Frank Steele in 1940 when he noted quartz and beryl crystals in float.. A pit three feet deep was dug on the discovery site and the crystals were piled nearby on the dump. From time to time crystals from the property were exhibited at fairs and made available to collectors, but none were sold. In 1950 the property was brought to the attention of Ralph Gesas and E. A. Clawson of Idaho Falls, Idaho, and they, together with their associates in the Barite Corporation, began negotiations to obtain a lease on the property.

A lease was signed on September 14, 1950, but mining operations were not begun until 1951. During April, 1951, 2,617 pounds of quartz was removed from the property, and during May, 1951, 4,116 pounds were removed. Of these shipments, one crystal weighing 35 pounds and 2 ounces was sold to the Applied Physics Company, Pasadena, California for $300.00. The remainder was sent to Idaho Falls and was there cobbed. Negotiations were being carried on during August, 1951 with the General Services Administration concerning the purchase of the cobbed material which is estimated to weigh about 500 pounds.

It is reported that much valuable crystal was removed from the workings and destroyed by unauthorized persons during April and May, 1951. Estimates of the value of the crystal that was destroyed are as much as $20,000, but this figure may be high.

No quartz was mined from the main workings during June or July, 1951, but some trenching was done on outlying prospects. A few quartz crystals were found, most of which were milky. Some fragments of clear quartz were observed in the float.

GEOLOGY

The area is underlain by quartz monzonite which is cut by pegmatite and quartz veins. A few miles to the south and north the quartz monzonite is in contact with sedimentary rocks presumed to be of Paleozoic age. Quaternary alluvium flanks the range on the west.

The quartz monzonite is a coarse grained, light, pinkish gray porphyritic rock. The phenocrysts are principally potash feldspar in a groundmass of quartz, plagioclase, biotite, and hornblende. The quartz monzonite is remarkably uniform throughout the area examined. It forms craggy outcrops and the west face of the range is extremely precipitous.

The pegmatite dikes are generally small, ranging from a few inches to 8 feet wide, and are a few tens of feet long. Potash feldspar, probably orthoclase, plagioclase, muscovite, and quartz are the principal minerals; accessory garnet, pyrite, and beryl are present locally.

The pegmatites are rudely zoned; commonly they are composed of a graphic granite outer zone and a quartz-potash feldspar-plagioclase-muscovite inner zone. The large radio quality quartz crystals are generally in the central part of the inner zone. Graphic granite forms the wall of the Goshute quartz-bearing pegmatite in places.

The quartz veins that locally cut the quartz monzonite appear to be related to the pegmatites in that they contain some feldspar, and the quartz is generally milky, similar to the quartz crystals in the pegmatites. Locally, however, the quartz shows comb structure, and some minute relatively clear crystals were noted.

Beryl is a notable accessory mineral reported from some of the pegmatite dikes in the Goshute Reservation area. The crystals of beryl are commonly

small, ranging from a fraction of an inch to 3 inches in diameter, and specimens as much as 8 inches long are reported.

QUARTZ DEPOSITS

The quartz deposit that has been explored is shown on figure 2 and plate 1. Another prospect pit was visited south of the main pit on the long ridge immediately north of the Queen of Sheba Mine.

The radio quality quartz that has been mined was found in a lenticular body of pegmatite about 35 feet long and as much as 8 feet wide (fig. 2). The quartz crystals were in the inner zone of the pegmatite in a matrix of potash feldspar, plagioclase, fine-grained quartz, and locally, muscovite. The quartz crystals are commonly milky and a few are smokey. Most of the crystals containing clear quartz have been removed or broken, but it is inferred that the clear parts were principally on the pyramidal termination. Some crystals are reported to have been nearly all clear quartz with only small imperfections such as veils, inclusions, and shadows. The crystals range from a fraction of an inch to 5 feet long and were as much as 3 feet in diameter. The largest crystal actually sold to date weighed 35 pounds 2 ounces.

Most of the crystals remaining in the pit are valueless because they are milky quartz or are broken. The pegmatite is said to have narrowed downward at the bottom of the pit, and may have pinched out. Quartz crystals are exposed on the northwest and southeast walls of the pit, but the pegmatite narrows in these directions beyond the pit and grades laterally into feldspar-quartz intergrowths. The quartz-bearing shoot may end in a few feet from the present pit.

The prospect pit to the south on the north side of a long ridge north of the Queen of Sheba mine was a shallow pit only 2 1/2 feet deep and 36 inches wide. The quartz exposed was in large crystals and most of them were milky. A lamprophyre dike trending northeast cuts through the prospect pit forming a footwall, with the quartz and pegmatite trending southeast. The pegmatite weathers easily and consequently forms very poor outcrops. The country rock around this pit is a coarse grained gray granite cut by small pegmatite dikes that trend south-southeast. The pegmatite dikes which are bordered by graphic granite, contain coarse grained orthoclase crystals, quartz and tourmaline and a very few beryl crystals. These pegmatite dikes range in size from 1 inch to as much as 18 inches wide and appear to be quite lenticular along their strike.

A considerable amount of quartz crystal float was found below the pit. Most of the quartz was milky, but several clear crystals were found. The abundance of good quartz crystal float seems to warrant further exploratory work on this ridge as well as on other reported occurrences along the west flank of the Deep Creek range.

QUARTZ RESERVES

Although a few quartz crystals remain in the walls of the pit, there are no minable reserves of quartz. The remaining crystals are either milky or are fractured and are therefore valueless.

The outlook for the discovery of usable crystals in the vicinity of the main prospect pit is not too promising as the pegmatite pinches out at the surface. Crystals can be found at depth below the bottom of the pit and

along the strike of the pegmatite, but they are enclosed in extremely hard rock and the blasting necessary to explore the pegmatite would probably break most of the crystals.

No minable reserves of quartz crystal can be calculated from the present meager showings, but there is enough quartz crystal float and vein quartz throughout the various prospect pits to warrant some exploratory work.

PROPOSED EXPLORATION

The Barite Corporation officials have applied for an exploration loan of $25,000 to prospect various showings of quartz crystals on the Goshute Indian reservation, Juab County, Utah.

An exploration program to explore each occurrence of quartz crystal in the area covered by the mining lease has been outlined with the applicant.

The exploration program will be carried out under the supervision of a consulting geologist and mine supervisor provided for under the contract. They will supervise such shaft work on the original discovery as is deemed necessary to prove or disprove the occurrence of more quartz crystals beyond the bottom of the present shaft, and will also supervise bulldozer trenching and the sinking of test pits to thoroughly explore all the present occurrences of quartz crystal and any additional discoveries that might be made during the period of exploration.

A limited exploration program has been outlined with the applicant to obtain preliminary geologic data, and to thoroughly explore the area by bulldozer trenching and by digging test pits on all locations favorable for occurrence of quartz crystals of piezoelectric quality.

The proposed project for the Goshute Quartz property is divided into three parts: (1) bulldozing, (2) test pits at favorable stripped locations, and (3) timber 20 feet of existing shaft and extend the shaft an additional 20 feet. The exploration costs are as follows:

1. Bulldozing and stripping

Contract - 120 hours @ $12.00 per hour	$1,440.00
Drayage	300.00
	$1,740.00

2. Test pits

(12 pits. Two men can complete a pit in three shifts.) A total of 18 days to complete test pit work.

Labor per shift

2 miners @ $15.00 per 8-hr. shift including insurance, OAB, etc.	30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision - $540 per month, $20.00 per shift	20.00
Geologist $50.00 per day, prorated	25.00
Total	$ 102.00
Total labor to complete 12 pits - 18 x $102.00	$1,836.00

Supplies for test pits

Explosives (powder, fuse, caps)	150.00
Steel 10 sets - 1', 2', 3'	100.00
Miscellaneous hand and blacksmith tools	150.00
Transportation	175.00
	$ 575.00

Total cost of test pits

Labor, 18 shifts	$1,836.00
Supplies	575.00
	$2,411.00

3. **Timber shaft and extend shaft an additional 20 feet**

Labor per shift

2 miners @ $15.00 per 8-hr, shift including insurance, OAB, etc.	30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision - $540 per month, $20.00 per shift	20.00
	$ 77.00
10 shifts required to timber shaft - labor 10 x $77.00	770.00

Supplies for timbering shaft

4 M bd. feet of timber @ $100	400.00
Miscellaneous	75.00
Total	$ 475.00

Total cost of timbering first 20 feet of shaft

Labor	$ 770.00
Supplies	475.00
Total	$ 1,245.00

Extension of shaft 20 feet

It is estimated that a 4-man crew will be able to drill, blast, muck, and timber 3 feet in 2 shifts, or 20 feet in 14 shifts, therefore advance per shift will be 1 1/2 feet.

Cost per 1 1/2 feet of advance is estimated as follows:

2 miners @ $15.00 per 8-hr. shift including insurance, OAB, etc.	$ 30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision, $540 per month, $20.00 per shift	20.00
Geologist, $50.00 per day prorated	12.50
Explosives (powder, fuse, caps)	8.00
Power (gas and lub. for compressor and hoist)	10.00
Timber	5.00
Transportation	7.50
Pipe, 2" - 100' (2 lines - pump discharge and air line)	2.75
Steel and bits	6.75
Equipment rantal	26.66
Miscellaneous	7.50
Cost per shift	$ 163.66
Cost of shaft sinking 14 x $162.16	$2,291.24

Supplies

Explosives (powder, fuse and caps)	$ 112.00
Power (gas and lubricants for compressor and hoist)	140.00
Timber	70.00
Pipe	38.50
Steel and bits	94.50
Miscellaneous	105.00
Total	$ 560.00

Equipment Rental

Gasoline driven compressor and hoist	$ 500.00 per mo.
Pickup truck	300.00 per mo.
Air driven water pump	50.00 per mo.
Jackhammer, air hose, pressure tank	150.00 per mo.
	$1,000.00

Labor

2 miners @ $15.00 per 8hr. shift including insurance, OAB, etc.	$ 30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision, $540 per month, $20.00 per shift	20.00
Geologist $50.00 per day prorated	12.50
Total	$ 89.50

Facilities

Three tent covered wood platforms will be sufficient to accomodate the employees. Estimated cost of this facility is	$ 500.00

Summary of Project Costs

Project 1	$1,740.00
Project 2	2,411.00
Project 3	
Timber shaft	1,245.00
Extend shaft 20 feet	2,291.24
Facilities	500.00
	$8,187.24

Estimated total time - 2 months

CONCLUSIONS AND RECOMMENDATIONS

The piezoelectric quartz that has been mined is in a pegmatite dike that cuts quartz monzonite. The pegmatite has yielded considerable quartz that may meet Signal Corps specifications, but the easily obtained material has been mined out. The pegmatite may contain clear quartz at depth, but the enclosing rock is hard and it is unlikely that crystals can be mined without fracturing them.

Several other quartz-bearing pegmatites and veins are known throughout the area, but so far no quartz of piezoelectric quality has been discovered. A comprehensive prospecting program might well reveal piezoelectric quartz in some veins. Such a program may prove costly, but because of the present national demand for piezoelectric quartz, it is felt that at least the known quartz-bearing pegmatites in the area should be thoroughly explored.

The Barite Corporation officials have applied for an exploration loan of $25,000 to prospect the various showings of quartz crystals. A limited exploration program has been outlined with the applicant to obtain preliminary geologic data, and thoroughly explore the area by bulldozer trenching and by digging test pits on all locations favorable for the occurrence of quartz crystals of piezoelectric quality. It is concluded that there is a fair chance of finding additional deposits of piezoelectric quartz in the Goshute Quartz mine property, and it is therefore recommended that the Defense Minerals Exploration Administration enter into a contract with the applicant to do the proposed exploration work herein outlined. The total cost of the project is $8,182.24. On a 90-10 percent participation basis the government's share will be $7,364.01.

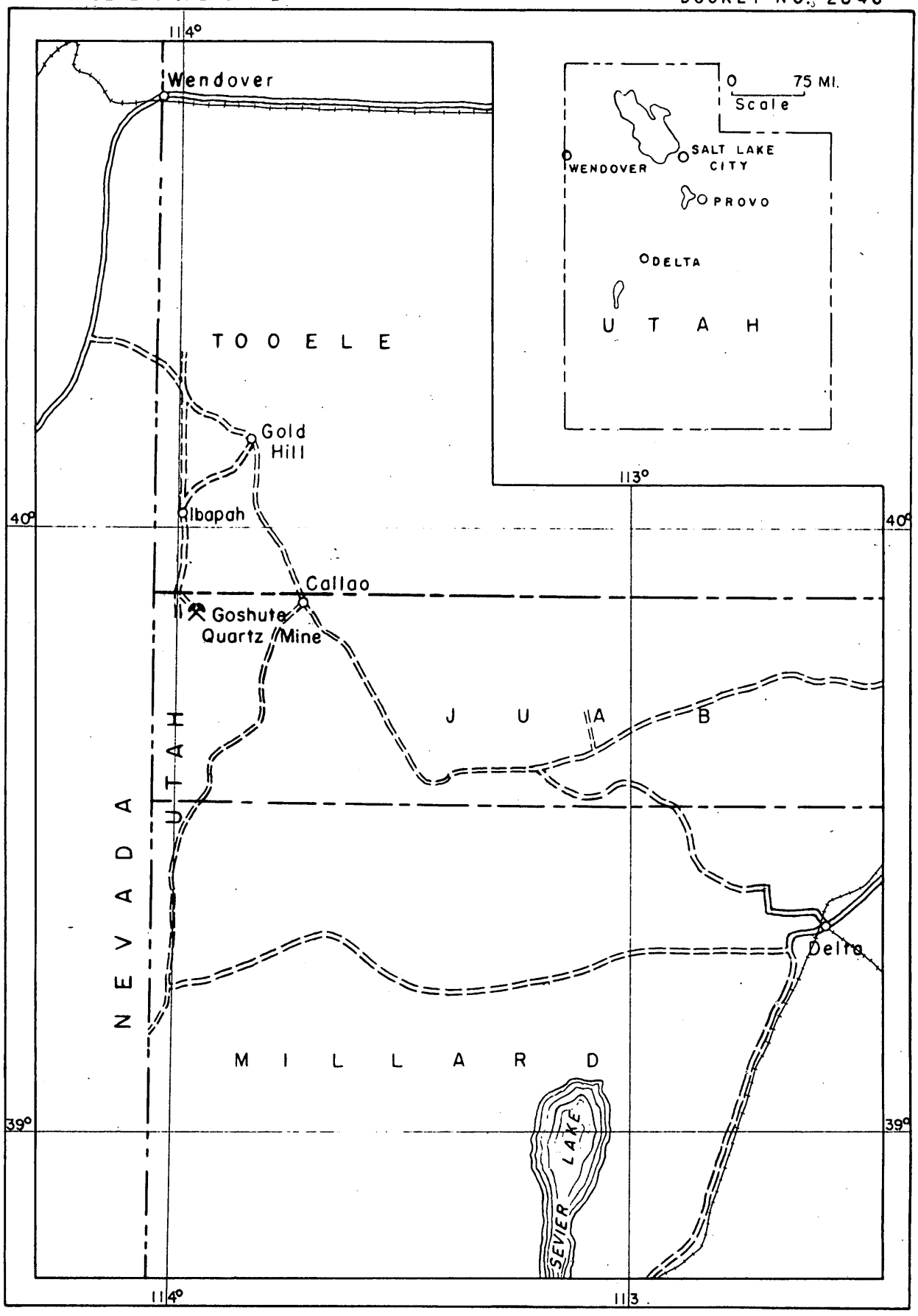

FIG. 1 INDEX MAP OF WESTERN UTAH

0 5 10 15 20 MILES
Scale

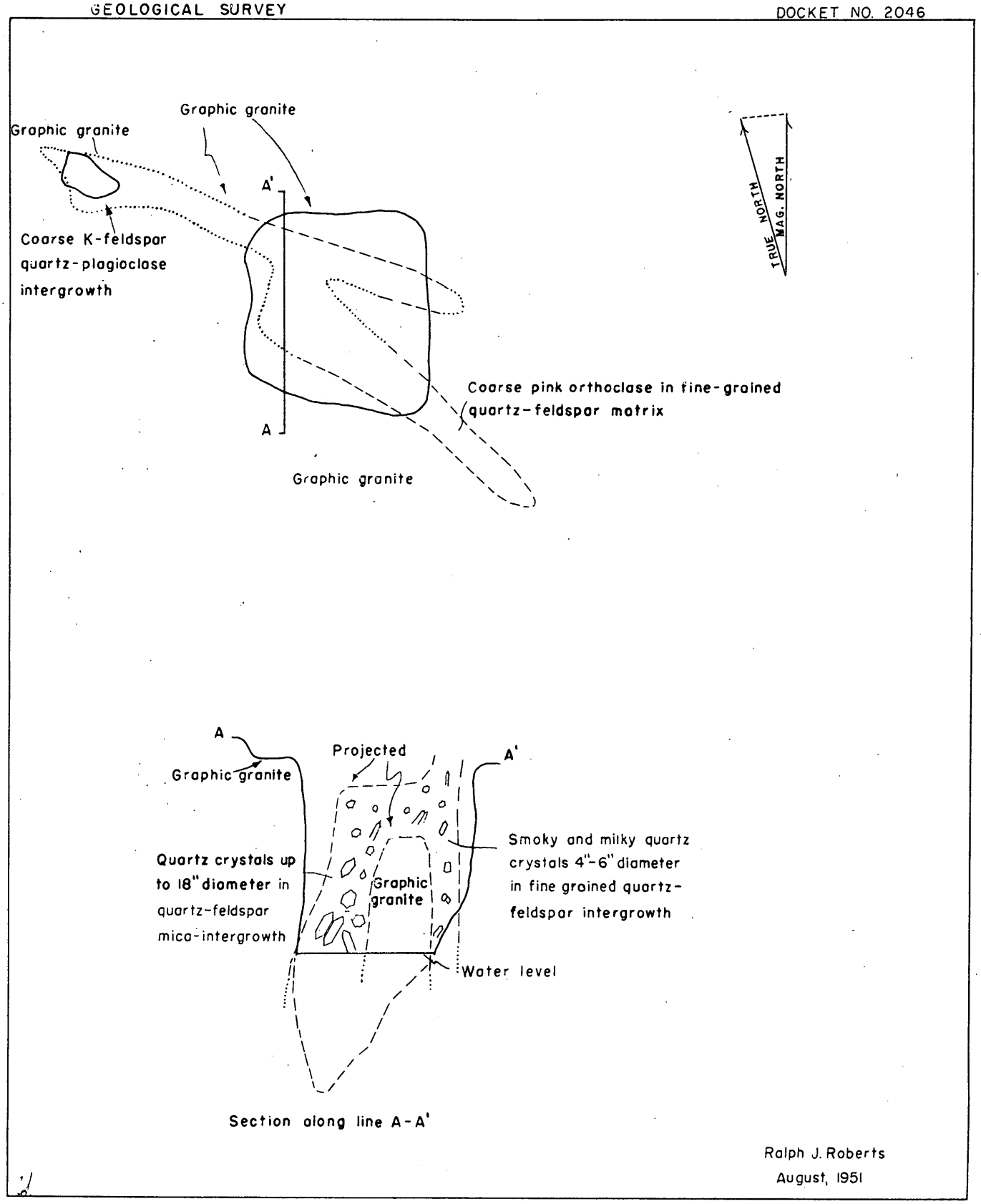

FIG. 2 SKETCH MAP OF THE WORKINGS, GOSHUTE QUARTZ MINE

JUAB COUNTY, UTAH

0 10 20 FEET
Scale

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 - 2046

Date received 9-7-51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 7 - 1951

The Dorito Corporation
P. O. Box 74
Idaho Falls, Idaho

Name and address of applicant

Date August 30, 1951

FILL IN THIS BLOCK

Date of application August 30, 1951

Estimated cost $25,000.00

Mineral or metal Quartz crystal

Percentage of Government participation 90%

Location of mine On Goshute Indian Reservation, Juab County, Utah.

Date of filing MF-100

DMA Docket Number, if available 2046

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

The Barite Corporation
(Name of company)

By Ralph Gesa
(Signature of authorized official)

September 5, 1951
(Date)

President
(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

LOAN APPLICATION OF THE BARITE CORPORATION

THE APPLICANT

1. Applicant is a corporation incorporated in the State of Nevada and qualified to do business in Utah.

2. --

3. Ralph Gesas, President, P. O. Box 74, Idaho Falls, Idaho. E. A. Clawson, Vice-president, c/o Bank of Eastern Idaho, Idaho Falls, Idaho. Ralph L. Albaugh, Secretary and Treasurer, P. O. Box 420, Idaho Falls, Idaho. Ralph M. Parsons, Director, 617 S. Olive Street, Los Angeles, California. I. M. Miles, Director, 1340 North Lincoln, Burbank, California.

4. (a) Applicant was incorporated in Nevada on July 17, 1950, and since that time has mined approximately 3,000 pounds of crude quartz crystals on the Goshute Indian Reservation at Ibapah, Utah.

(b) Ralph Gesas, President of this corporation, is Vice-president of the Reliance Oil Company, Idaho Falls, Idaho, and has had 30 years of executive experience in the oil industry. Ralph L. Albaugh, the secretary and treasurer, is a lawyer practicing in Idaho Falls, Idaho, and owns and operates several ranches. E. A. Clawson, the vice-president of this corporation, is vice-president of the Bank of Eastern Idaho, Idaho Falls, Idaho, and has had many years experience in banking, stock ranching, and mining. Director Ralph M. Parsons is a contractor and engineer and president of the Ralph M. Parsons Company, with its principle offices at 617 S. Olive Street, Los Angeles, California, and branches in Washington, D. C., and other cities. Director I. M. Miles is an engineer, and has been in the employ of several large construction companies.

5. The Barite Corporation is the lessee of the property under an Indian lease from the Goshute Indian Tribe dated September 14, 1950, approved by the Bureau of Indian Affairs, Department of Interior, and by the Bureau of Mines.

6. No claims, liens, or encumbrances are against the property.

7. Lease is in good standing, and copy thereof is attached hereto. Lessors' only interest is the royalty which is payable from the proceeds of quartz crystals mined and sold, and from the nature of this lease, we suggest that no additional waiver or agreement from the lessors should be required.

8. Financial statement attached hereto.

THE BARITE CORPORATION

By Ralph Gesas

[illegible] IMPLEMENTATION OF THE [illegible] CORPORATION

9. Applicant is prepared to invest $500.00 in proposed project. We believe this is sufficient to pay our part of the cost of the project.

THE PROPERTY

10. (a) 640 acres of land in the Goshute Indian Reservation near Ibapah, Utah.

(b) Legal description of land is as follows:

The Southeast Quarter of the Southeast Quarter (SE SE¼) of Section Twenty-seven (27), the East Half of the Northeast Quarter (E NE¼) and the Northeast Quarter of the Southeast Quarter (NE SE¼) and Southeast Quarter (SE¼) of Section Thirty-four (34). Also, the following portions of unsurveyed sections Twenty-six (26) and Thirty-five (35), Southwest Quarter of the Southeast Quarter (SW SE¼) and South Half of the Southwest Quarter (S½SW¼), Section Twenty-six (26), West Half of the Northeast Quarter (W½NE¼), the Northwest Quarter (NW¼), the North Half of the Southwest Quarter (N½SW¼) and the Northwest Quarter of the Southeast Quarter (NW SE¼) of Section Thirty-five (35), all in Township Eleven (11) South, Range Nineteen (19) West SLB & M Meridian, in Juab County, Utah.

Exploration will be made on the entire tract of land, as there are numerous occurrences, indications, and outcroppings of quartz crystal on the tract. We have excavated a pit approximately 25 feet deep and approximately 14 feet in diameter from which we extracted approximately 8,000 pounds of crude quartz crystal.

11. No name.

12. This property is situate about 77 miles South of Gendover, Utah, a station on the Western Pacific Railroad, and the quartz crystal will be shipped from Gendover, Utah. Ely, Nevada, lies approximately 90 miles Southwest of this property, and this is also a railroad shipping point. A graded, graveled road runs from Gendover to Ibapah, Utah, and Ibapah, Utah, is approximately 12 miles from the property.

13. No water will be required for the operation, but there is a small creek running the year around through the property, which is sufficient for all requirements. No power will be used, excepting man power, tractors, and gasoline motors.

14. There are no existing useable facilities on the property, but storage space is available on the Indian Reservation within about 7 miles of the property.

THE [illegible] CORPORATION

By Ralph Gesar

LOAN APPLICATION OF THE MANITE CORPORATION

15. The Quartz crystals will be shipped by truck from the mine to the railroad shipping point at Gendover, Utah, and will then be shipped to United States Testing Company, Inc., 1415 Park Avenue, Hoboken, New Jersey, or as instructed by General Services Administration, Emergency Procurement Service.

16. (a) The applicant commenced exploration work in September, 1950, and suspended work during the winter months because of snow conditions, as the property is situate at an elevation of approximately 7,000 feet. In April, 1951, the applicant excavated the pit above described and obtained therefrom the quartz crystals above stated. As there were no available testing facilities on the property, the crystals were shipped by truck to Idaho Falls, Idaho, and in August, 1951, these crystals were processed by Russell Rupert, of the Quartz Crystal Division, General Services Administration, Washington, D. C., and approximately 700 pounds of marketable quartz crystals were obtained from the whole lot. The applicant suspended work the latter part of June, 1951, due to a faulting condition in the pit, and decided that other pits should be opened, and further investigation and exploration made. Since that time, the property has been examined by U. S. Geological Survey and the U. S. Signal Corps and by Mr. Rupert, of the Quartz Crystal Division, General Services Administration.

(b) The known history and production is nil, except as above stated.

(c) For reports and examinations, the applicant refers you to Mr. Rupert, of the Quartz Crystal Division; Mr. Phelps, of the U. S. Bureau of Standards, Washington, D. C.; Mr. Waesche, of the U. S. Signal Corps, Fort Monmouth, New Jersey; Mr. R. V. Lewis, General Electric Company, Syracuse, New York, and Mr. Sywater, of the U. S. Geological Survey, Salt Lake City Office.

17. It is impossible to answer this question, as most of the work done has been exploratory in nature. The crystals above mentioned will be shipped in a few days to U. S. Testing Company, Hoboken, New Jersey, and until they are finally graded and processed, we have no returns thereon and cannot state the value thereof.

18. The applicant has found quartz crystal of commercial value in pegmatite dykes. No maps are available, and it is impossible to give an extimate of tonnage or grade.

19. Applicant has signed contract with General Services Administration, Emergency Procurement Service, to purchase applicant's production.

THE MANITE CORPORATION

By Ralph Gesas

LOAN APPLICATION OF THE DARTE CORPORATION

THE EXPLORATION

20. Exploration will be conducted for quartz crystals.

21. The estimated time to complete this exploration will be two years, as no work can be done during the winter months. Removing the topsoil and excavating pits where ever there is a showing of quartz crystals.

22. Applicant refers you to No. 16 above.

THE REQUIREMENTS AND COSTS

23. See Schedule 23 hereto attached.

24. See Schedule 23 hereto attached.

COPY

THE DARTE CORPORATION

By Ralph Gesar

SCHEDULE 23 -- Supplement to Form NF 103

	1951 Nov.	1952 May	1952 June	1952 July	1952 Aug.	1952 Sept.	1952 Oct.	1952 Nov.	TOTAL
(a) Seven men (miners or muckers) at 40 hours per week @ $1.50 per hour	$1680	$1680	$1680	$1680	$1680	$1680	$1680	$1680	$13,440.00
(b) Supervisor's Salary @ $500.00 per month	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 4,000.00
(c) Repairs to heating, plumbing and roof on housing facilities now near location for men and superintendent	$ 500								$ 500.00
(d) Construction of hoist house over project mine	$ 200								$ 200.00
(e) Cook tent, sleeping tent, cook stove and lumber	$ 300								$ 300.00
(f) Rental of crawler tractor with dozer attached @ $10.00 per hour for 100 hours, making roads and some exploratory work	$1000								$ 1,000.00
Rental of small air compressor and hoist @ $200.00 per month	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 1,600.00
Rental of four-wheel drive pickup truck	$ 400	$ 400	$ 150	$ 150	$ 150	$ 150	$ 150	$ 150	$ 1,700.00
(g) None - All equipment to be donated at no cost to project.									
(h) Miner's picks & shovels $40.00, Hand Steel $25.00, Used Blacksmith Forge $20.00	$ 130.00								$ 130.00
(i) Dynamite for road work, etc. $100.00, Pipe $100.00, Lumber $150.00, Timber $500.00, Gasoline, oil, etc. $1272.00	$ 990.00	$ 250	$ 150	$ 150	$ 147	$ 145	$ 145	$ 145	$ 2,122.00
	$5908	$3030	$2680	$2680	$2677	$2675	$2675	$2675	$25,000.00

THE BARITE CORPORATION

By Ralph Gesar

Form 5-157 b
(April 1940)

CONTRACT NO. I..... IND. .....

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS

MINING LEASE—TRIBAL INDIAN LANDS

(FOR MINERALS OTHER THAN OIL AND GAS)

Goshute Indian Tribe, State of Utah

THIS INDENTURE OF LEASE, made and entered into in quintuplicate this 21st day of September, 1950, by and between Confederated Tribes of the Goshute Reservation Utah

of Ibapah, State of Utah

for and on behalf of the Confederated Goshute Tribe of Indians, designated herein as lessor, and The Barite Corporation

of Idaho Falls, State of Idaho

herein designated as lessee:

WITNESSETH

1. That the lessor , for and in consideration of $1, receipt whereof is hereby acknowledged, and of the royalties, covenants, stipulations, and conditions hereinafter contained and hereby agreed to be paid and observed by the lessee, doth hereby demise, grant, and lease unto the said lessee, the following-described tract of land lying and being within the Goshute Indian Reservation, County of Juab and State of Utah, to wit: SE¼ of SE¼ Section Twenty-seven (27), E½ of NE¼ and NE¼ of SE¼ of Section Thirty-four (34). Also the following portions of unsurveyed sections Twenty-six (26) and Thirty-five (35), SW¼ of SE¼ and S½ of SW¼ Section Twenty-six (26), W½ of NE¼, NW¼, N½ of SW¼ and NW¼ of SE¼ of Section Thirty-five (35)

of section all in , township 11 South, range 19 W SLB & M. meridian, and containing 640 acres, more or less, for the full term of 10 years from the date of approval hereof, for the sole purpose of prospecting for and mining minerals, as follows: Barite and other minerals found in quantity and quality sufficient to warrant their exploitation.

16—15629

the lessee to occupy so much only of the surface of said land as may be reasonably necessary to carry on the work of prospecting for, mining, milling, storing, and removing such minerals.

2. The term "Superintendent" as used herein shall refer to the superintendent or other official in charge of the Indian Agency having jurisdiction over the lands leased.

3. In consideration of the foregoing, the lessee hereby agrees:

(*a*) ROYALTY.—To pay, or cause to be paid, to the Superintendent, for the use and benefit of the lessor, or to the Treasurer of said Tribe where the tribe is organized under the act of June 18, 1934 (48 Stat. 984), as royalties, the sums of money as follows, to-wit:*

~~See rider attached and by reference is made a part hereof.~~

RIDER: 3(a)

A royalty of 10% on the gross smelter, mill, mint, laboratory or processing returns on all minerals or materials extracted from, and shipped from said lands on the first $100,000 of gross returns, which royalty shall increase 1% on each additional $100,000 of gross returns to and including $500,000 gross ~~royalties~~ returns, and thereafter royalty payments shall be 15% on the said gross returns. It being the intention of the parties that said royalties shall be paid as follows:

On the first $100,000	10%
Between $100,000 and $200,000	11%
Between $200,000 and $300,000	12%
Between $300,000 and $400,000	13%
Between $400,000 and $500,000	14%
Over $500,000	15%

L. P.
B. S.

The term "gross returns" is hereby defined as being the amount received from any smelter, mill, mint, laboratory or processing plant, without deductions of any nature, kind or description; it being understood that the lessee shall pay and bear at its sole cost and expense all charges for mining, excavating, trucking, transportation, milling or processing.

All royalties accruing for any month shall be due and payable on or before the 25th day of the month succeeding.

(*b*) ANNUAL RENTAL.—To pay, or cause to be paid, to the Superintendent for the use and benefit of the lessor, or to the Treasurer of said Tribe where the tribe is organized under the act of June 18, 1934 (48 Stat. 984), in advance beginning with the date of approval of the lease, as annual rental, the following: 25 cents per acre for the first calendar year or fraction thereof, 50 cents per acre per annum for the second and third years, and $1 per acre per annum in advance for each and every calendar year thereafter during the continuance of the lease; it being understood and agreed that said sum so paid shall be a credit on the royalties accruing during the year for which the payment of annual rental is made, and that said annual rental when paid shall not be refunded to the lessee because of any subsequent surrender or cancelation hereof.

(*c*) DILIGENCE, PREVENTION OF WASTE.—To exercise diligence in the conduct of prospecting and mining operations; to carry on development and operations in a workmanlike manner and to the fullest possible extent; to commit no waste on the said land and to suffer none to be committed upon the portion in his occupancy or use; to comply with all the requirements of the laws of the State in which the land is located; to take appropriate steps for the preservation of the property and the health and safety of workmen; promptly to surrender and return the premises upon the termination of this lease to whomsoever shall be lawfully entitled thereto, in as good condition as received, excepting for the ordinary wear and tear and unavoidable accidents in their proper use; not to remove therefrom any buildings or permanent improvements erected thereon during the said term by the said lessee, but said buildings and improvements shall remain a part of said land and become the property of lessor, excepting the office fixtures and records, personal property, tools, pumping and drilling outfits, boilers, engines, and mining machinery, which shall remain the property of the lessee and may be removed at any time prior to 60 days after the termination of the lease by forfeiture or otherwise, provided the payments agreed upon by this lease have been made and the lease terms and regulations applicable thereto have been fully complied with, but not otherwise; not to permit any nuisance to be maintained on the premises under lessee's control, nor allow any intoxicating liquors to be sold or given away for any purpose on such premises; and not to use such premises for any other purposes than those authorized in this lease.

(*d*) DEVELOPMENT.—The land described herein shall not be held by the lessee for speculative purposes, but in good faith for mining the minerals specified; and the failure by the lessee in the diligent development and continued operation of the mine or mines, except when operations may be interrupted by strikes, the elements, or casualties not attributable to the lessee, shall be held as a want of compliance with the purposes of this lease and shall render it subject to cancelation: *Provided*, That whenever the Secretary of the Interior shall consider the marketing facilities inadequate or the economic conditions unsatisfactory, he may authorize the suspension of operations for such time as he may deem advisable, but such action will not release the lessee from the payment of the advance annual rental.

(*e*) MONTHLY STATEMENTS.—To keep an accurate account of all mining operations, showing the sales, prices, dates, purchasers, and the whole amount of minerals mined, the amount removed, and the gross receipts derived therefrom, and to furnish the Superintendent or the Treasurer of said Tribe if payments are made to him, sworn

* Here insert the royalties agreed upon in accordance with applicable regulations.

monthly reports thereon not later than the 25th of the succeeding month; and all sums due as royalty and advance rental shall be a lien on all implements, tools, movable machinery, and all other personal chattels used in operation upon said property, and upon all of the unsold minerals obtained from the land herein leased, as security for payment of said sums. An audit of the lessee's accounts and books shall be made annually or at such times as may be directed by the Superintendent by certified public accountants approved by the Secretary of the Interior and at the expense of the lessee. The lessee shall furnish free of cost a copy of such audits to the Secretary of the Interior through the Superintendent within 30 days after the completion of each auditing.

(*f*) REGULATIONS.—To abide by and conform to any and all regulations of the Secretary of the Interior now or hereafter in force relative to such leases: *Provided*, That no regulations hereafter approved shall effect a change in rate of royalty, the annual rental herein specified, or the term of this lease, without the written consent of the parties to this lease.

(*g*) ASSIGNMENT OF LEASE.—Not to assign this lease or any interest therein by an operating agreement or otherwise nor to sublet any portion of the leased premises, except with the approval of the Secretary of the Interior. If this lease is divided by the assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease.

(*h*) BOND.—To furnish such bond as may be required by the regulations of the Secretary of the Interior conditioned upon compliance with the terms of this lease.

4. MILLING.—All ores or minerals mined on said land shall be cleaned and prepared for market thereon, and no ore or crushed material shall be removed therefrom to be cleaned or prepared for market without the written consent of the Secretary of the Interior.

5. INSPECTION.—The leased premises and producing operations, improvements, machinery, and fixtures thereon and connected therewith and all books and accounts of the lessee shall be open at all times for inspection by agents of the lessor or any duly authorized representative of the Secretary of the Interior.

6. DISPOSITION OF SURFACE.—The lessor expressly reserves the right to lease, sell, or otherwise dispose of the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such disposition to be subject at all times to the right of the lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the minerals from the land herein described in accordance with this lease.

7. SURRENDER AND TERMINATION.—The lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of all rentals, royalties, and other obligations due and payable to the lessor, and the further sum of $1, upon a showing satisfactory to the Secretary of the Interior that full provision has been made for the conservation and protection of the property, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded lessee shall file a recorded release with his application to the Superintendent for termination of this lease.

8. CANCELATION AND FORFEITURE.—When, in the opinion of the Secretary of the Interior, there has been a violation of any of the terms and conditions of this lease before restrictions are removed, the Secretary of the Interior shall have the right at any time after 30 days' notice to the lessee, specifying the terms and conditions violated, and after a hearing, if the lessee shall so request within 30 days of receipt of notice, to declare this lease null and void, and the lessor shall then be entitled and authorized to take immediate possession of the land.

9. HEIRS AND SUCCESSORS IN INTEREST.—It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

10. GOVERNMENT EMPLOYEES CANNOT ACQUIRE LEASE.—No lease, assignment thereof, or interest therein will be approved to any employee or employees of the United States Government whether connected with the Indian Service or otherwise, and no employee of the Interior Department shall be permitted to acquire any interest in such leases by ownership of stock in corporations having leases or in any other manner.

IN WITNESS WHEREOF, the said parties have hereunto subscribed their names and affixed their seals on the day and year first above mentioned.

Two witnesses to execution by lessor:

Bob Steele

P. O. Ibapah Utah

J. M. Fiske

P. O. Pasadena Calif

Two witnesses to execution by lessee:

John L. Bloem

P. O. Idaho Falls, Idaho

Geo L. Barnard

P. O. Idaho Falls, Idaho

Confederated Tribes of the Goshute Reservation
Utah.

By: Leo Pete [SEAL]

Leo Pete, Chairman, Goshute Business Council

[SEAL]

THE RARITE CORPORATION

By: Ralph Gesso [SEAL]

Ralph Gesso, President.
THE RARITE CORPORATION.

Attest: By E. A. Chauvin

E. A. Chauvin, Assistant Secretary

ACKNOWLEDGMENT OF LESSOR

STATE OF Utah
COUNTY OF Tooele } ss:

Before me, a notary public, on this 14th day of September, 1950, personally appeared Leo Pete, Chairman Goshute Business Council, to me known to be the identical person, who executed the within and foregoing lease, and acknowledged to me that he executed the same in his official capacity as Chairman, Goshute Business Council as free and voluntary act and deed for the uses and purposes therein set forth.

Mary S. Nicholas
Notary Public.

My commission expires May 27, 1952

UNITED STATES DEPARTMENT OF THE INTERIOR

Washington, D. C., ..., 19....

The within lease is hereby ..... approved.

Assistant Secretary of the Interior.

Filed for record this ..... day of ....., 19....

at ..... o'clock ..... m.

By .....

Rental received, $.....

16—15629 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
MAY 16 1952
BUREAU OF MINES
Denver, Colorado

May 14, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 2046, The Barite Corp., quartz crystal deposits, Juab County, Utah. Your memorandum of April 16, 1952.

Enclosed are 9 prints of figure 3 prepared by the Geological Survey. The print shows the relation between the leased property and present surface and underground mine workings. The information is sketchy, but is the best obtainable without an actual survey of the property. The locations of the proposed trenches and pits will be determined at the time the work is started.

Stephen R. Wilson

Stephen R. Wilson

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd
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Stephen R. Wilson

Enclosure

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 5/16/52

REFERRED TO:

1. ~~King~~ Cont. K
2. Shaw
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Memo from Wilson enclosing 9 prints of figure 3, DMA 2046, Barite Corporation,

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

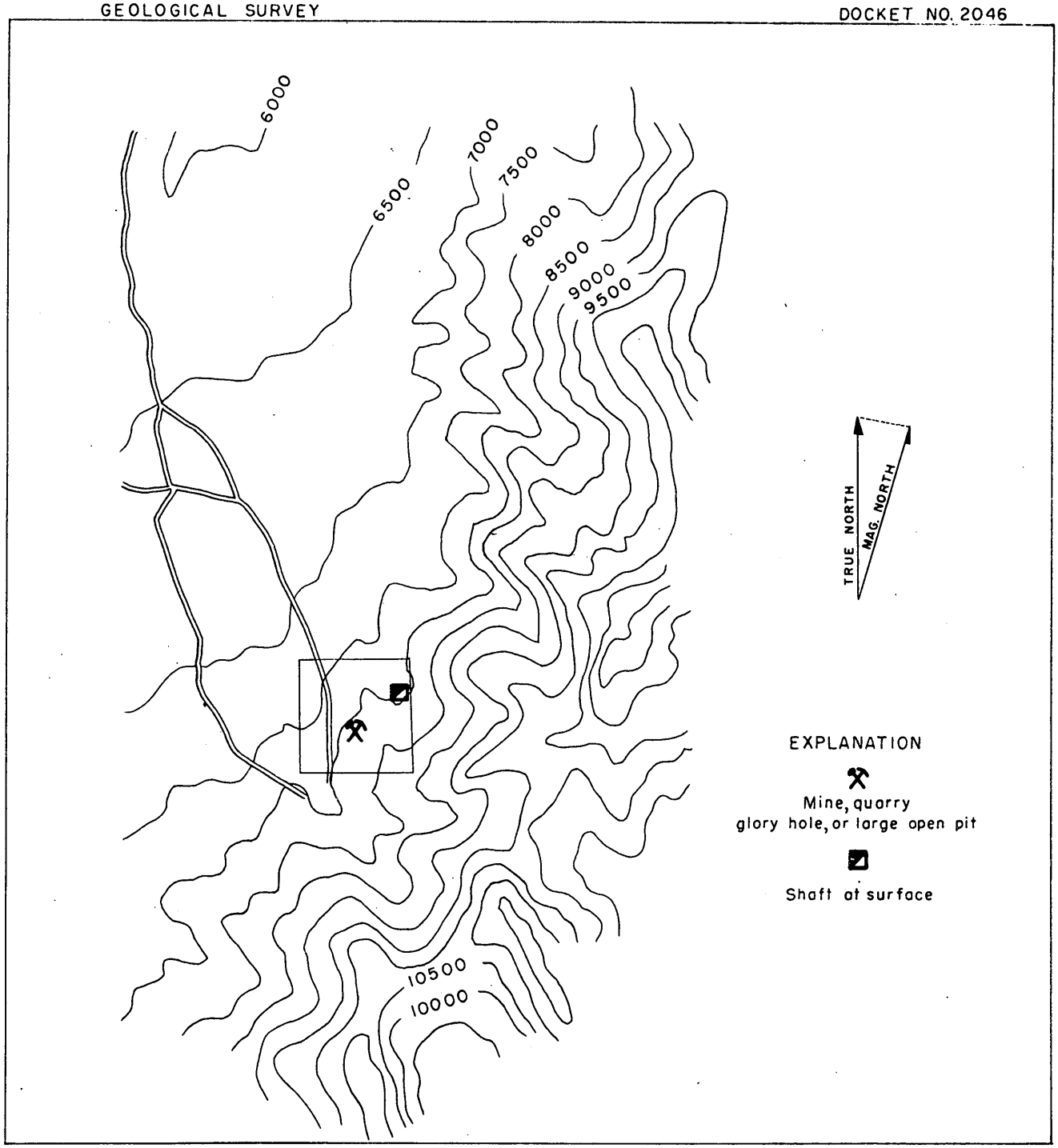
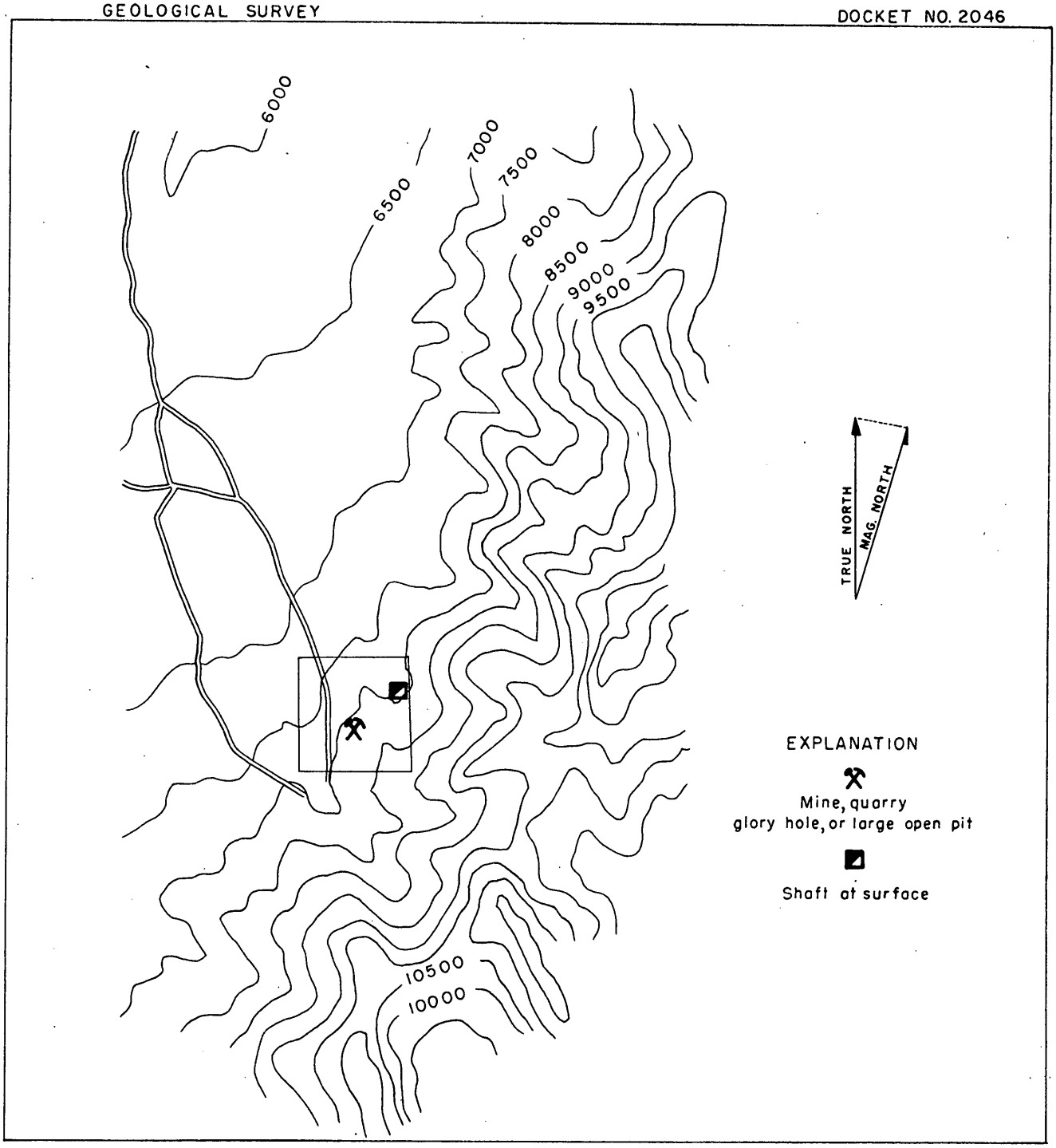


FIG. 3 PORTION OF T. 11 S. R. 19 W. S.L.B. AND M. SHOWING MINING LEASE AND WORKINGS ON GOSHUTE INDIAN RESERVATION JUAB COUNTY, UTAH BY THE BARITE CORP. (GOSHUTE QUARTZ MINE)

0 1 2 MILES
SCALE



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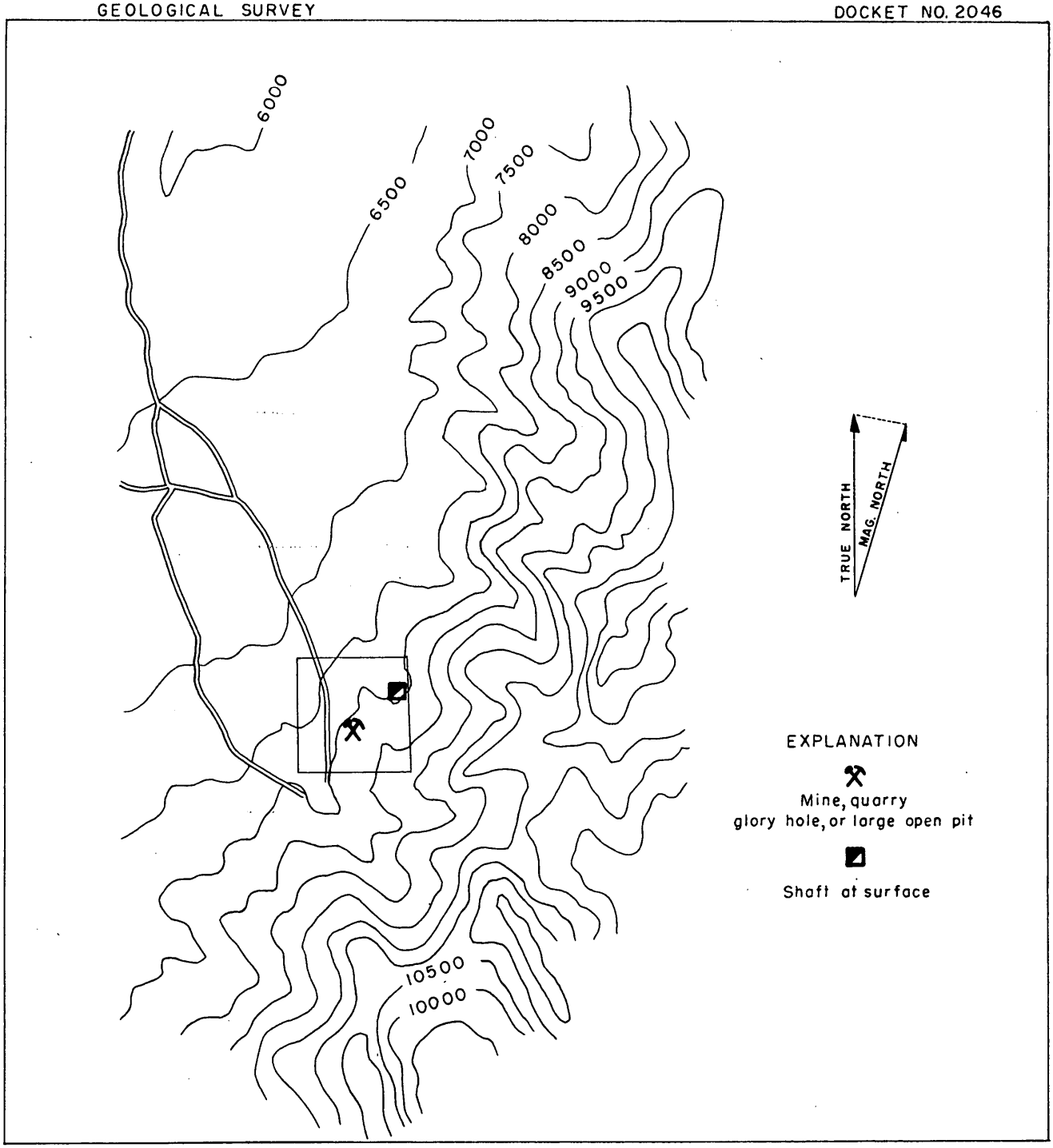

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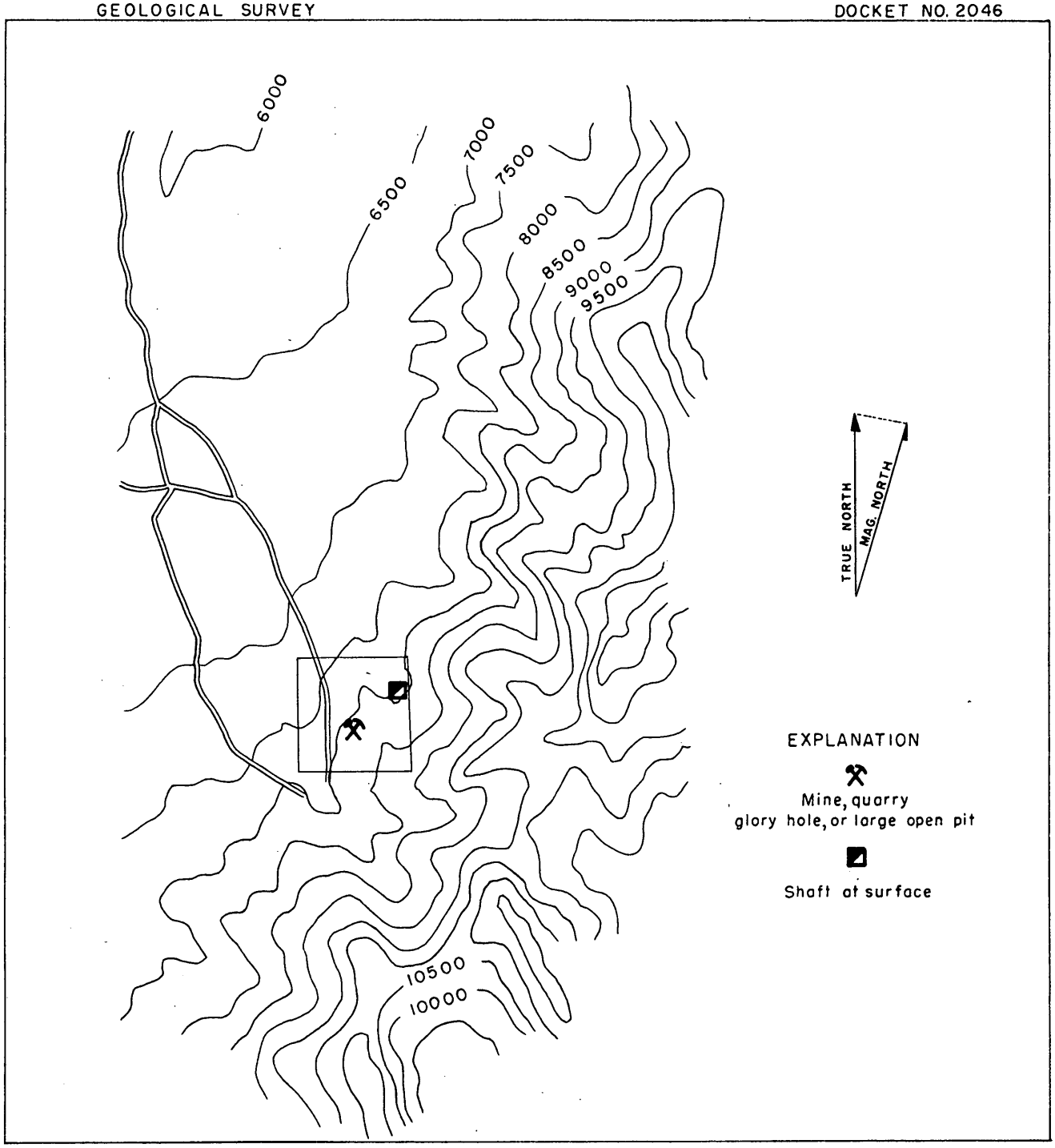
SCALE



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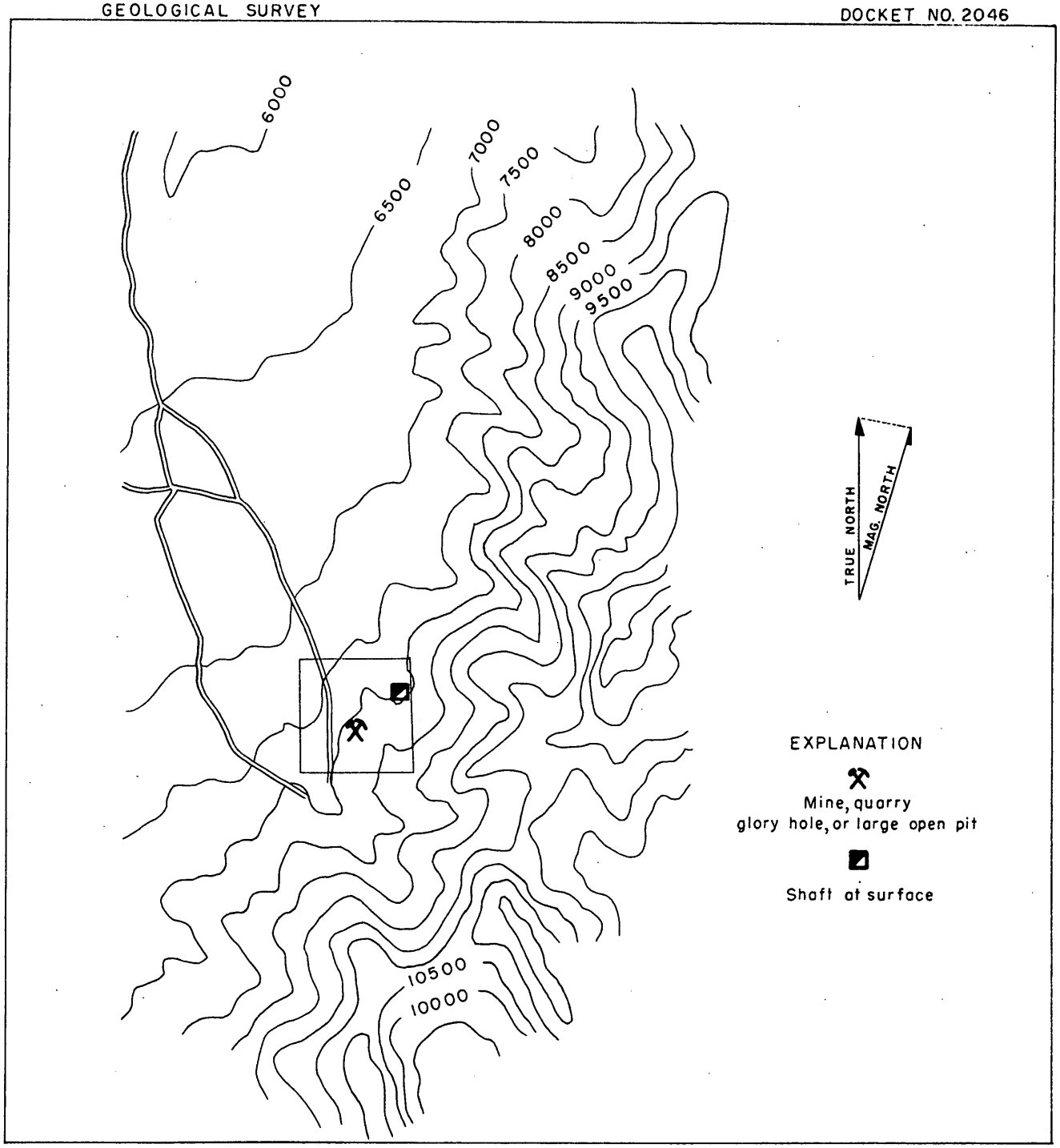
SCALE



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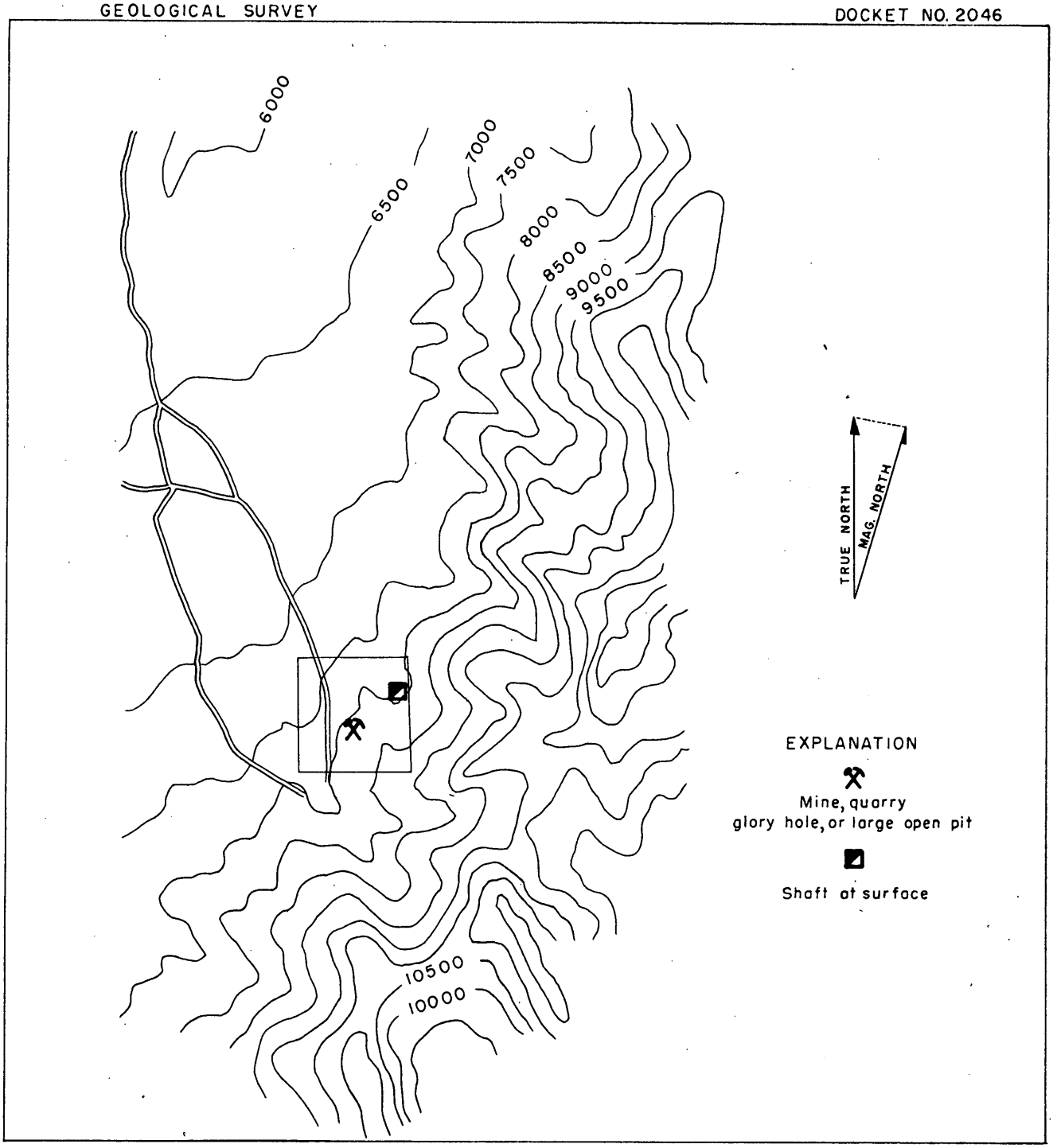
SCALE



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0 1 2 MILES
SCALE

MF-200
(June 1951)

Docket No. DMA 2046

Commodity Quartz crystal

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] The Barite Corporation
P.O. Box 74
Idaho Falls, Idaho

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 Utah, County of Juab described as follows: [3] SE¼ of SE¼ Sec. 27, E½ of NE¼ and NE¼ of SE¼ of Sec. 34. Also the following portions of unsurveyed Sec. 26 and Sec. 35: SW¼ of SE¼ and S½ of SW¼ Sec. 26, W½ of NE¼, NW¼, W½ of SW¼, and NW¼ of SE¼ Sec. 35, all in T. 11 S., R. 19W. SL B & M

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] Quartz crystal; 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] five (5) 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 90 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 7917.30, which is 90 percent of the agreed estimated total cost of this project, $ 8797.00.

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

By _____
Regional Director, Region IV
U. S. Bureau of Mines

_____
(Operator)

By _____

U. S. GOVERNMENT PRINTING OFFICE 16—61066-2

Exhibit A

Exploration Project

The proposed project consists of three parts. Part 1 consists of exploring the favorable area by stripping with a bulldozer. The location of the proposed trenches is shown on the attached map. Part 2 consists of sinking test pits at favorable locations disclosed by the stripping. The locations of the test pits will be selected after part or all of the stripping is completed, and must be acceptable to the USMA representative. Part 3 consists of timbering the existing shaft and sinking the shaft an additional 20 feet. The location of the proposed work in relation to the property lines is shown on the attached map.

The estimated working time is three months

The following costs are estimated.

	Part 1.	Part 2.	Part 3.
Rental of Equipment	1740.00	219.00	888.00
Labor, Supervising Engineer		2100.00	1600.00
Supplies		650.00	1100.00
Printing & expenses	500.00		
Total	$2240.00	$2969.00	$3588.00

Total

2847.00

3700.00

1750.00

500.00

$8797.00

Part 1 (20) 2046

Fixtures and Improvements

Three tents ~~[illegible]~~
with wooden floors and walls $5-00.00

Part 1

Operating Equipment

To be rented:

Rental of bulldozer D-7 Caterpillar or equivalent, with operator and supplies. 120 hours @ $12.00 per hour $1440.00
Mobilization " 300.00
$1740.00

Part 2

Operating Equipment

To be rented:

~~Rental of~~ Compressor 210 c.f.m. $164 per mo. $164.00
~~Rental of~~ Jackhammer 55 per mo. 55.00
Pick-up Truck $300 per month 300.00
Total estimated rental $519.00

Labor and Supervision

2 miners at ~~$12.00~~ $13.00 per day
2 muckers at $13.50 per day
1 Supervisor at $500.00 per month
1 Geologist at $50.00 per day (part time)
Compensation, insurance, payroll taxes 250.00
Total estimated labor and supervision 1850.00

The daily wage for miners and muckers is based on an 8-hour day, 5-day

week. Time and one-half is allowable for overtime.

Supplies

Explosives	150.00
Drill steel, bits	150.00
Misc. small tools	150.00
Gasoline, Oil	200.00
Estimated cost of supplies	$650.00

Part 3

Operating Equipment

To be rented:

Pick-up truck $300.00 per month	300.00
Compressor, 210 c.f.m. $164 per month	$328.00
Jackhammer $55 " "	110.00
Air hoist $50.00 per month	100.00
Air-driven pump at $50.00 per month	50.00
Estimated rental	$888.00

Labor and Supervision

2 miners at $15.00 per day
2 muckers at 13.50 per day
1 supervisor at $500.00 per month
1 geologist at $50.00 per day (prorated)
Compensation, insurance, payroll taxes 200.00

Total estimated labor and supervision 1400.00
The daily wage for miners and ~~200.00~~ muckers is based on an 8-hour day, 5-day week with time and one-half for overtime.

Supplies

Explosives	$160.00
Gasoline, oil	140.00
Timber	500.00
Pipe	50.00
Drill steel and bits	100.00
Small tools	150.00

Estimated cost of supplies $1100.00

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-2046

Date received 9-7-51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 7 - 1951

The Barite Corporation
P. O. Box 74
Idaho Falls, Idaho

Name and address of applicant

Date August 30, 1951

FILL IN THIS BLOCK

Date of application August 30, 1951

Estimated cost $25,000.00

Mineral or metal Quartz crystal

Percentage of Government participation 90%

Location of mine On Goshute Indian Reservation, Juab County, Utah.

Date of filing MF-100

DMA Docket Number, if available 2046

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

THE BARITE CORPORATION
(Name of company)

By Ralph Gesar
(Signature of authorized official)

September 5, 1951
(Date)

President
(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

LOAN APPLICATION OF THE BARITE CORPORATION

THE APPLICANT

1. Applicant is a corporation incorporated in the State of Nevada and qualified to do business in Utah.

2. --

3. Ralph Gesas, President, P. O. Box 74, Idaho Falls, Idaho. E. A. Clawson, Vice-president, c/o Bank of Eastern Idaho, Idaho Falls, Idaho. Ralph L. Albaugh, Secretary and Treasurer, P. O. Box 428, Idaho Falls, Idaho. Ralph M. Parsons, Director, 617 S. Olive Street, Los Angeles, California. I. M. Riles, Director, 1340 North Lincoln, Burbank, California.

4. (a) Applicant was incorporated in Nevada on July 17, 1950, and since that time has mined approximately 8,000 pounds of crude quartz crystals on the Goshute Indian Reservation at Ibapah, Utah.

(b) Ralph Gesas, President of this corporation, is Vice-president of the Reliance Oil Company, Idaho Falls, Idaho, and has had 30 years of executive experience in the oil industry. Ralph L. Albaugh, the secretary and treasurer, is a lawyer practicing in Idaho Falls, Idaho, and owns and operates several ranches. E. A. Clawson, the vice-president of this corporation, is vice-president of the Bank of Eastern Idaho, Idaho Falls, Idaho, and has had many years experience in banking, stock ranching, and mining. Director Ralph M. Parsons is a contractor and engineer and president of the Ralph M. Parsons Company, with its principle offices at 617 S. Olive Street, Los Angeles, California, and branches in Washington, D. C., and other cities. Director I. M. Riles is an engineer, and has been in the employ of several large construction companies.

5. The Barite Corporation is the lessee of the property under an Indian lease from the Goshute Indian Tribe dated September 14, 1950, approved by the Bureau of Indian Affairs, Department of Interior, and by the Bureau of Mines.

6. No claims, liens, or encumbrances are against the property.

7. Lease is in good standing, and copy thereof is attached hereto. Lessors' only interest is the royalty which is payable from the proceeds of quartz crystals mined and sold, and from the nature of this lease, we suggest that no additional waiver or agreement from the lessors should be required.

8. Financial statement attached hereto.

THE BARITE CORPORATION

By Ralph Gesas

LOAN APPLICATION OF THE BARITE CORPORATION

9. Applicant is prepared to invest $6500.00 in proposed project. We believe this is sufficient to pay our part of the cost of the project.

THE PROPERTY

10. (a) 640 acres of land in the Goshute Indian Reservation near Ibapah, Utah.

(b) Legal description of land is as follows:

The Southeast Quarter of the Southeast Quarter (SE¼SE¼) of Section Twenty-seven (27), the East Half of the Northeast Quarter (E½NE¼) and the Northeast Quarter of the Southeast Quarter (NE¼SE¼) and Southeast Quarter (SE¼) of Section Thirty-four (34). Also, the following portions of unsurveyed sections Twenty-six (26) and Thirty-five (35), Southwest Quarter of the Southeast Quarter (SW¼SE¼) and South Half of the Southwest Quarter (S½SW¼), Section Twenty-six (26), West Half of the Northeast Quarter (W½NE¼), the Northwest Quarter (NW¼), the North Half of the Southwest Quarter (N½SW¼) and the Northwest Quarter of the Southeast Quarter (NW¼SE¼) of Section Thirty-five (35), all in Township Eleven (11) South, Range Nineteen (19) West SLB & M Meridian, in Juab County, Utah.

delete? Bragson

Exploration will be made on the entire tract of land, as there are numerous occurrences, indications, and outcroppings of quartz crystal on the tract. We have excavated a pit approximately 25 feet deep and approximately 14 feet in diameter from which we extracted approximately 8,000 pounds of crude quartz crystal.

11. No name.

12. This property is situate about 77 miles South of Wendover, Utah, a station on the Western Pacific Railroad, and the quartz crystal will be shipped from Wendover, Utah. Ely, Nevada, lies approximately 90 miles Southwest of this property, and this is also a railroad shipping point. A graded, graveled road runs from Wendover to Ibapah, Utah, and Ibapah, Utah, is approximately 12 miles from the property.

13. No water will be required for the operation, but there is a small creek running the year around through the property, which is sufficient for all requirements. No power will be used, excepting man power, tractors, and gasoline motors.

14. There are no existing useable facilities on the property, but storage space is available on the Indian Reservation within about 7 miles of the property.

THE BARITE CORPORATION

By Ralph Gesas

LOAN APPLICATION OF THE BARITE CORPORATION

15. The Quartz crystals will be shipped by truck from the mine to the railroad shipping point at Wendover, Utah, and will then be shipped to United States Testing Company, Inc., 1415 Park Avenue, Hoboken, New Jersey, or as instructed by General Services Administration, Emergency Procurement Service.

16. (a) The applicant commenced exploration work in September, 1950, and suspended work during the winter months because of snow conditions, as the property is situate at an elevation of approximately 7,000 feet. In April, 1951, the applicant excavated the pit above described and obtained therefrom the quartz crystals above stated. As there were no available testing facilities on the property, the crystals were shipped by truck to Idaho Falls, Idaho, and in August, 1951, these crystals were processed by Russell Rupert, of the Quartz Crystal Division, General Services Administration, Washington, D. C., and approximately 700 pounds of marketable quartz crystals were obtained from the whole lot. The applicant suspended work the latter part of June, 1951, due to a faulting condition in the pit, and decided that other pits should be opened, and further investigation and exploration made. Since that time, the property has been examined by U. S. Geological Survey and the U. S. Signal Corps and by Mr. Rupert, of the Quartz Crystal Division, General Services Administration.

(b) The known history and production is nil, except as above stated.

(c) For reports and examinations, the applicant refers you to Mr. Rupert, of the Quartz Crystal Division; Mr. Phelps, of the U. S. Bureau of Standards, Washington, D. C.; Mr. Waesche, of the U. S. Signal Corps, Fort Monmouth, New Jersey; Mr. R. V. Lewis, General Electric Company, Syracuse, New York, and Mr. Bywater, of the U. S. Geological Survey, Salt Lake City Office.

17. It is impossible to answer this question, as most of the work done has been exploratory in nature. The crystals above mentioned will be shipped in a few days to U. S. Testing Company, Hoboken, New Jersey, and until they are finally graded and processed, we have no returns thereon and cannot state the value thereof.

18. The applicant has found quartz crystal of commercial value in pegmetite dykes. No maps are available, and it is impossible to give an extimate of tonnage or grade.

19. Applicant has signed contract with General Services Administration, Emergency Procurement Service, to purchase applicant's production.

THE BARITE CORPORATION

By Ralph Gesas

LOAN APPLICATION OF THE BARITE CORPORATION

THE EXPLORATION

20. Exploration will be conducted for quartz crystals.

21. The estimated time to complete this exploration will be two years, as no work can be done during the winter months. Removing the topsoil and excavating pits where ever there is a showing of quartz crystals.

22. Applicant refers you to No. 16 above.

THE REQUIREMENTS AND COSTS

23. See Schedule 23 hereto attached.

24. See Schedule 23 hereto attached.

THE BARITE CORPORATION

By Ralph Gesar

SCHEDULE 23 -- Supplement to Form MF 103

	1951 Nov.	1952 May	1952 June	1952 July	1952 Aug.	1952 Sept.	1952 Oct.	1952 Nov.	TOTAL
(a) Seven men (miners or muckers) at 40 hours per week @ $1.50 per hour	$1680	$1680	$1680	$1680	$1680	$1680	$1680	$1680	$13,440.00
(b) Supervisor's Salary @ $500.00 per month	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 4,000.00
(c) Repairs to heating, plumbing and roof on housing facilities now near location for men and superintendent	$ 500								$ 500.00
(d) Construction of hoist house over project mine	$ 200								$ 200.00
(e) Cook tent, sleeping tent, cook stove and lumber	$ 300								$ 300.00
(f) Rental of crawler tractor with dozer attached @ $10.00 per hour for 100 hours, making roads and some exploratory work	$1000								$ 1,000.00
Rental of small air compressor and hoist @ $200.00 per month	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 1,600.00
Rental of four-wheel drive pickup truck	$ 400	$ 400	$ 150	$ 150	$ 150	$ 150	$ 150	$ 150	$ 1,700.00
(g) None - All equipment to be donated at no cost to project.									
(h) Miner's picks & shovels $48.00, Hand Steel $25.00, Used Blacksmith Forge $20.00	$ 138								$ 138.00
(i) Dynamite for road work, etc. $100.00, Pipe $100.00, Lumber $150.00, Timber $500.00, Gasoline, oil, etc. $1272.00	$ 990	$ 250	$ 150	$ 150	$ 147	$ 145	$ 145	$ 145	$ 2,122.00
	$5908	$3030	$2680	$2680	$2677	$2675	$2675	$2675	$25,000.00

THE BARITE CORPORATION

By Ralph Gesas

Form 5-157 b
(April 1940)

CONTRACT NO. I..... IND. .....

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS

MINING LEASE—TRIBAL INDIAN LANDS

(FOR MINERALS OTHER THAN OIL AND GAS)

Goshute Indian Tribe, State of Utah

THIS INDENTURE OF LEASE, made and entered into in quintuplicate this 26th day of September, 1950, by and between Confederated Tribes of the Goshute Reservation Utah

of Ibapah, State of Utah

for and on behalf of the Confederated Goshute Tribe of Indians, designated herein as lessor, and The Barite Corporation

of Idaho Falls, State of Idaho

herein designated as lessee:

WITNESSETH

1. That the lessor , for and in consideration of $1, receipt whereof is hereby acknowledged, and of the royalties, covenants, stipulations, and conditions hereinafter contained and hereby agreed to be paid and observed by the lessee, doth hereby demise, grant, and lease unto the said lessee, the following-described tract of land lying and being within the Goshute Indian Reservation, County of Juab and State of Utah, to wit: SE¼ of SE¼ Section Twenty-seven (27), E½ of NE¼ and NE¼ of SE¼ of Section Thirty-four (34). Also the following portions of unsurveyed sections Twenty-six (26) and Thirty-five (35), SW¼ of SE¼ and S½ of SW¼ Section Twenty-six (26), W½ of NE¼, NW¼, N½ of SW¼ and NW¼ of SE¼ of Section Thirty-five (35)

of section all in , township 11 South, range 19 W SLB & M. meridian, and containing 640 acres, more or less, for the full term of 10 years from the date of approval hereof, for the sole purpose of prospecting for and mining minerals, as follows: Quartz and other minerals found in quantity and quality sufficient to warrant their exploitation.

16—15629

the lessee to occupy so much only of the surface of said land as may be reasonably necessary to carry on the work of prospecting for, mining, milling, storing, and removing such minerals.

2. The term "Superintendent" as used herein shall refer to the superintendent or other official in charge of the Indian Agency having jurisdiction over the lands leased.

3. In consideration of the foregoing, the lessee hereby agrees:

(*a*) ROYALTY.—To pay, or cause to be paid, to the Superintendent, for the use and benefit of the lessor, or to the Treasurer of said Tribe where the tribe is organized under the act of June 18, 1934 (48 Stat. 984), as royalties, the sums of money as follows, to-wit:*

~~See rider attached and by reference is made a part hereof:~~

RIDER: 3(a)

A royalty of 10% on the gross smelter, mill, mint, laboratory or processing returns on all minerals or materials extracted from, and shipped from said lands on the first $100,000 of gross returns, which royalty shall increase 1% on each additional $100,000 of gross returns to and including $500,000 gross ~~royalties~~ returns, and thereafter royalty payments shall be 15% on the said gross returns. It being the intention of the parties that said royalties shall be paid as follows:

On the first $100,000	10%
Between $100,000 and $200,000	11%
Between $200,000 and $300,000	12%
Between $300,000 and $400,000	13%
Between $400,000 and $500,000	14%
Over $500,000	15%

L. P.
B. S.

The term "gross returns" is hereby defined as being the amount received from any smelter, mill, mint, laboratory or processing plant, without deductions of any nature, kind or description; it being understood that the lessee shall pay and bear at its sole cost and expense all charges for mining, excavating, trucking, transportation, milling or processing.

All royalties accruing for any month shall be due and payable on or before the 25th day of the month succeeding.

(*b*) ANNUAL RENTAL.—To pay, or cause to be paid, to the Superintendent for the use and benefit of the lessor, or to the Treasurer of said Tribe where the tribe is organized under the act of June 18, 1934 (48 Stat. 984), in advance beginning with the date of approval of the lease, as annual rental, the following: 25 cents per acre for the first calendar year or fraction thereof, 50 cents per acre per annum for the second and third years, and $1 per acre per annum in advance for each and every calendar year thereafter during the continuance of the lease; it being understood and agreed that said sum so paid shall be a credit on the royalties accruing during the year for which the payment of annual rental is made, and that said annual rental when paid shall not be refunded to the lessee because of any subsequent surrender or cancelation hereof.

(*c*) DILIGENCE, PREVENTION OF WASTE.—To exercise diligence in the conduct of prospecting and mining operations; to carry on development and operations in a workmanlike manner and to the fullest possible extent; to commit no waste on the said land and to suffer none to be committed upon the portion in his occupancy or use; to comply with all the requirements of the laws of the State in which the land is located; to take appropriate steps for the preservation of the property and the health and safety of workmen; promptly to surrender and return the premises upon the termination of this lease to whomsoever shall be lawfully entitled thereto, in as good condition as received, excepting for the ordinary wear and tear and unavoidable accidents in their proper use; not to remove therefrom any buildings or permanent improvements erected thereon during the said term by the said lessee, but said buildings and improvements shall remain a part of said land and become the property of lessor, excepting the office fixtures and records, personal property, tools, pumping and drilling outfits, boilers, engines, and mining machinery, which shall remain the property of the lessee and may be removed at any time prior to 60 days after the termination of the lease by forfeiture or otherwise, provided the payments agreed upon by this lease have been made and the lease terms and regulations applicable thereto have been fully complied with, but not otherwise; not to permit any nuisance to be maintained on the premises under lessee's control, nor allow any intoxicating liquors to be sold or given away for any purpose on such premises; and not to use such premises for any other purposes than those authorized in this lease.

(*d*) DEVELOPMENT.—The land described herein shall not be held by the lessee for speculative purposes, but in good faith for mining the minerals specified; and the failure by the lessee in the diligent development and continued operation of the mine or mines, except when operations may be interrupted by strikes, the elements, or casualties not attributable to the lessee, shall be held as a want of compliance with the purposes of this lease and shall render it subject to cancelation: *Provided*, That whenever the Secretary of the Interior shall consider the marketing facilities inadequate or the economic conditions unsatisfactory, he may authorize the suspension of operations for such time as he may deem advisable, but such action will not release the lessee from the payment of the advance annual rental.

(*e*) MONTHLY STATEMENTS.—To keep an accurate account of all mining operations, showing the sales, prices, dates, purchasers, and the whole amount of minerals mined, the amount removed, and the gross receipts derived therefrom, and to furnish the Superintendent or the Treasurer of said Tribe if payments are made to him, sworn

*Here insert the royalties agreed upon in accordance with applicable regulations.

monthly reports thereon not later than the 25th of the succeeding month; and all sums due as royalty and advance rental shall be a lien on all implements, tools, movable machinery, and all other personal chattels used in operation upon said property, and upon all of the unsold minerals obtained from the land herein leased, as security for payment of said sums. An audit of the lessee's accounts and books shall be made annually or at such times as may be directed by the Superintendent by certified public accountants approved by the Secretary of the Interior and at the expense of the lessee. The lessee shall furnish free of cost a copy of such audits to the Secretary of the Interior through the Superintendent within 30 days after the completion of each auditing.

(*f*) REGULATIONS.—To abide by and conform to any and all regulations of the Secretary of the Interior now or hereafter in force relative to such leases: *Provided*, That no regulations hereafter approved shall effect a change in rate of royalty, the annual rental herein specified, or the term of this lease, without the written consent of the parties to this lease.

(*g*) ASSIGNMENT OF LEASE.—Not to assign this lease or any interest therein by an operating agreement or otherwise nor to sublet any portion of the leased premises, except with the approval of the Secretary of the Interior. If this lease is divided by the assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease.

(*h*) BOND.—To furnish such bond as may be required by the regulations of the Secretary of the Interior conditioned upon compliance with the terms of this lease.

4. MILLING.—All ores or minerals mined on said land shall be cleaned and prepared for market thereon, and no ore or crushed material shall be removed therefrom to be cleaned or prepared for market without the written consent of the Secretary of the Interior.

5. INSPECTION.—The leased premises and producing operations, improvements, machinery, and fixtures thereon and connected therewith and all books and accounts of the lessee shall be open at all times for inspection by agents of the lessor or any duly authorized representative of the Secretary of the Interior.

6. DISPOSITION OF SURFACE.—The lessor expressly reserves the right to lease, sell, or otherwise dispose of the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such disposition to be subject at all times to the right of the lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the minerals from the land herein described in accordance with this lease.

7. SURRENDER AND TERMINATION.—The lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of all rentals, royalties, and other obligations due and payable to the lessor, and the further sum of $1, upon a showing satisfactory to the Secretary of the Interior that full provision has been made for the conservation and protection of the property, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded lessee shall file a recorded release with his application to the Superintendent for termination of this lease.

8. CANCELATION AND FORFEITURE.—When, in the opinion of the Secretary of the Interior, there has been a violation of any of the terms and conditions of this lease before restrictions are removed, the Secretary of the Interior shall have the right at any time after 30 days' notice to the lessee, specifying the terms and conditions violated, and after a hearing, if the lessee shall so request within 30 days of receipt of notice, to declare this lease null and void, and the lessor shall then be entitled and authorized to take immediate possession of the land.

9. HEIRS AND SUCCESSORS IN INTEREST.—It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

10. GOVERNMENT EMPLOYEES CANNOT ACQUIRE LEASE.—No lease, assignment thereof, or interest therein will be approved to any employee or employees of the United States Government whether connected with the Indian Service or otherwise, and no employee of the Interior Department shall be permitted to acquire any interest in such leases by ownership of stock in corporations having leases or in any other manner.

IN WITNESS WHEREOF, the said parties have hereunto subscribed their names and affixed their seals on the day and year first above mentioned.

Two witnesses to execution by lessor:

Bob Steele

P. O. Tooele, Utah

[illegible]

P. O. Pasadena Calif

Two witnesses to execution by lessee:

John L. Bloem

P. O. Idaho Falls, Idaho

Geo L. Barnard

P. O. Idaho Falls, Idaho

Confederated Tribes of the Goshute Reservation
Utah.

By: Leo Pete [SEAL]

Leo Pete, Chairman, Goshute Business Council

[SEAL]

THE RARITE CORPORATION

By: Ralph Geno [SEAL]

Ralph Geno, President.
THE RARITE CORPORATION.

Attest: By [illegible]

E. A. Clemson, Assistant Secretary

ACKNOWLEDGMENT OF LESSOR

STATE OF Utah
COUNTY OF Tooele } ss:

Before me, a notary public, on this 14th day of September, 1950, personally appeared Leo Pete, Chairman Goshute Business Council, to me known to be the identical person, who executed the within and foregoing lease, and acknowledged to me that he executed the same in his official capacity as Chairman Goshute Business Council as free and voluntary act and deed for the uses and purposes therein set forth.

Mary S. Nicholas
Notary Public.

My commission expires May 27, 1952

UNITED STATES DEPARTMENT OF THE INTERIOR

Washington, D. C., ..., 19.....

The within lease is hereby ..... approved.

Assistant Secretary of the Interior.

Filed for record this ..... day of ....., 19.....

at ..... o'clock ..... m.

By .....

Rental received, $.....

16—15629 U. S. GOVERNMENT PRINTING OFFICE

224 New Customhouse
Denver 2, Colorado

December 16, 1952

Memorandum

To: C. O. Mittendorf

From: Executive Officer, Field Team, Region IV

Subject: DMEA Docket 2046, The Barite Corporation

Application No. DMEA 2046 was approved in February, 1952. At that time it was considered necessary for the operator to obtain additional ground in his lease from the Goshute Indian tribe. An engineer contacted the applicant and made a reexamination in May, 1952 to determine the relation of the quartz deposit to the boundary of the property held under lease. At this time, Mr. Ralph Gesas of the Barite Corporation agreed to ask the Washington office of the Indian Affairs for a lease on a larger block of ground. Our Salt Lake office has contacted the applicant from time to time, regarding the status of the new lease.

We are enclosing a copy of a letter dated September 17, 1952 from the applicant which states that their lease on an additional 800 acres of land has been forwarded to the Bureau of Indian Affairs in Washington, D. C. for approval.

We hesitate to write the applicant again regarding this application inasmuch as he claims it is being delayed in the Washington office of another agency.

We would appreciate it if you would contact the Bureau of Indian Affairs to determine the status of this lease.

John F. Shaw
John F. Shaw for
W. H. King

Enclosure

JFS:oc
cc: SRWilson
~~Ennkx~~ Subject
Chron.
Koschmann

Mining Division
Date Rec'd.
SEP 24 1952
BUREAU OF MINES
Denver, Colorado

C O P Y

THE BARITE CORPORATION

P. O. Box 74 - Idaho Falls, Idaho

September 17, 1952

United States Department of Interior
Bureau of Mines
1600 East 1st South Street
Salt Lake City 1, Utah

Attention: Mr. Stephen R. Wilson Re: DMEA docket 2046

Gentlemen:

Mr. Ralph Gesas has asked me to reply to your letter dated September 12, 1952, concerning this loan application.

On June 28, 1952 we obtained a lease from the Goshute Indian Tribe to 800 acres more land on the Goshute Indian Reservation. We then forwarded this lease to Indian Agency at Stewart, Nevada, and we are informed that they have in turn forwarded the same to the Bureau of Indian Affairs at Washington, D. C., where it will probably be approved, but we have not yet received notice of approval by the Bureau of Indian Affairs.

As soon as we hear from the Bureau, we will advise you.

Very truly yours,

THE BARITE CORPORATION

/S/ Ralph L. Albaugh
Secretary

RLA:jb

Ack
Copy sent W.O.
12-16-52
R.W.B.

W.H.K.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

September 12, 1952

Mr. Ralph Gesas
The Barite Corporation
Box 74
Idaho Falls, Idaho

Dear Mr. Gesas:

Reference is made to our telephone conversation of May 29, 1952, and my letter of June 2, 1952, concerning DMEA docket 2046 and possible inclusion of additional acreage to a lease held by the Barite Corporation, covering parts of the Goshute Indian Reservation, Juab County, Utah.

This office has had no recent information concerning the present status of your lease or your company's desire to maintain the DMEA loan application in active status.

Please provide information to enable us to determine disposition of your application.

Sincerely,

Stephen R. Wilson

Stephen R. Wilson, Chief
Utah-Wyoming Branch
Mining Division

cc: W. H. King

file

df

224 New Customhouse
Denver 2, Colorado

May 15, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2046, The Barite Corporation, Coshute Quartz Crystal Deposits, Coshute Indian Reservation, Juab County, Utah

Exploration assistance in the amount of $10,176 has been approved for the Barite Corporation and the contract will be prepared by this office.

Four copies of the report will be forwarded you when the contract is signed.

The original and one copy of Form 3b is attached.

J. H. East, Jr.

A. H. Koschmann

HMC:oc

cc: SRWilson w/copy of final report
R.Roberts w/copy of final report
A.H. Koschmann w/copy of final report
DMA Final Report

Subject, Chron.
Koschmann (2)

DMA Form 3b.

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMA Docket No. 2046

Change: From		To	
I 1	☐	I 1	☐
I 2	☐	I 2	☐
I 3	☒	I 3	☒
I 4	☐	I 4	☐
I 5	☐	I 5	☐
I 6	☐	I 6	☐
III 1	☐	III 1	☒ 5-14-52
III 2	☐	III 2	☐
III 3	☐	III 3	☐
III 4	☒	III 4	☐

Add:

II 7 $ 25,000.00

II 8 $ 10,176.00

II 8a % 90

Initials of person preparing sheet H.M.C.

Date sheet prepared 5-14-52

224 New Customhouse
Denver 2, Colorado

March 21, 1952

Mr. E. A. Clawson
Vice-President
The Barite Corporation
P. O. Box 74,
Idaho Falls, Idaho

Dear Mr. Clawson:

Your letter of March 19 to Mr. J. H. East, Jr., concerning DMA Docket 2046, has been referred to this office for consideration.

The report prepared in connection with the above application is in this office and a contract will be prepared. We will probably submit the contract to you for approval in about two weeks. This matter will be handled through Mr. S. R. Wilson, Chief, Utah-Wyoming Branch, Bureau of Mines, 1600 East First South St., Salt Lake City 1, Utah.

Very truly yours,

W. H. King

W. H. King, for
J. H. East, Jr.
Executive Officer
Field Team, Region IV

cc: S. R. Wilson
(w/copy of incoming letter)

Sub
Chron

WHK:bh

J. Z.

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 3/20/52

REFERRED TO:

1. King
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Letter from E.A.Clawson, V. P., Barite Corp., DMA 2046, requesting info re status of application.

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

LOS ANGELES ELKO, NEVADA

THE BARITE CORPORATION

P. O. BOX 74 • IDAHO FALLS, IDAHO

REGIONAL DIRECTOR'S
OFFICE
REGION IV
MAR 20 1952
BUREAU OF MINES
DENVER, COLORADO

March 19, 1952

Mr. Jack East, Regional Director
U. S. Bureau of Mines
200 New Customhouse Building
Denver, Colorado

Re: DMA-Docket 2046
Barite Corporation
Goshute quartz

Dear Mr. East:

Mr. William Hassler, of the U. S. Geological Survey, Defense Minerals Office, at Salt Lake City, Utah, has advised us that on February 29, 1952, he forwarded to your office a loan application (number shown above), in the amount of $8,187.24 for the development of quartz crystal on the Goshute Indian Reservation at Ibapah, Utah, by the Barite Corporation.

This Corporation held a meeting yesterday, with the idea that we must necessarily make previous arrangements to secure personnel and equipment to carry on this project, which we wish to start by not later than May 1st. It may take us a month to find the necessary personnel and rental equipment, and therefore, are writing this letter to you in an endeavor to see if you can give us some determination as to when we may expect a final action by your office upon this loan.

Due to the altitude, snow conditions and inaccessibility of the property, we have but a very short season to operate in during the summer, and are, therefore, writing this letter to try and expedite all details thereto.

It would be very much appreciated if you could favor us with an early reply.

Very truly yours,

E. A. Clawson,
Vice-President

EAC:njm

224 New Customhouse
Denver 2, Colorado

April 23, 1952

Memorandum

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

From: Executive Officer, Field Team, Region IV

Subject: Contract for Barite Corporation, Docket DMA 2046, Quartz Crystals

A contract is being prepared for the Barite Corporation under Docket DMA 2046. The property is on the Goshute Indian Reservation, Juab County, Utah. Our understanding is that the Washington Office of DMEA will arrange with the Washington Office of Indian Affairs for Subordination Agreements.

It is not the policy of Region IV to allow all copies of contracts which have been signed by a representative of the Government out of the possession of a representative of DMEA. We believe the proper procedure in this case would be to send the contract to Washington so that the Subordination Agreement can be obtained and have all six copies of the unsigned contract returned to the Region IV office for transmittal to the applicant for signature, the reason being that the operator is in Idaho Falls, Idaho and if the contract were signed by a representative of the Government, it would be necessary for one of our field engineers to go to Idaho Falls, Idaho, or for the applicant to come from Idaho to the Salt Lake office. This might work a hardship on the parties concerned and it could be eliminated by having the operator sign the contracts first.

If the contract number were assigned and the money allocated at the time the Subordination Agreement was obtained, it would eliminate returning the contract to the Washington office.

W. H. King

W. H. King, for
J. H. East, Jr.

JFS:ld

cc: Contract, chron.
Koschmann
Wilson

224 New Customhouse
Denver 2, Colorado

April 24, 1952

Mr. E. A. Clawson
Box 1061
Idaho Falls, Idaho

Dear Mr. Clawson:

This is in further reference to our telephone conversation of April 23 concerning Docket DMA 2046, Barite Corporation, Juab County, Utah.

As you were advised, we have requested certain information from Mr. Wilson before the contract can be completed. Mr. Wilson may have written you in regard to this matter by this time.

Very truly yours,

W. H. King

W. H. King, for
J. H. Rast, Jr.
Executive Officer
Field Team, Region IV

cc: S. R. Wilson
A. H. Koechmann
Sub
Chron

WHK:bh

Mining Division
Region IV

April 16, 1952

Memorandum

To: S. R. Wilson

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 2046, The Barite Corporation, Quartz crystal deposits, Juab County, Utah

Enclosed are copies of Form MF-103 and MF-100 submitted by the Barite Corporation, Docket DMA-2046, a copy of the final Geologic Report on this application by R. J. Roberts, J. W. Hasler, and R. J. Sharp. Also enclosed is a rough draft of a proposed contract. The Field Team has approved of the project on the strength of the enclosed Geologic Report, however, additional information is necessary before the contract can be completed. We need nine copies of a map showing the location of the proposed work in relationship to the property lines.

A properly executed lease accompanied the application. Arrangements will be made for the Subordination Agreements to be obtained from the Office of Indian Affairs in Washington.

Some items necessary for the preparation of a contract were omitted from the Geologic Report and others need clarification. No allowance was made for a geologist and laborer in Part I. It seems that the trenching would require work on the part of a supervising geologist and a mucker in order to properly expose the formations. No allowance is made for rental of a compressor and jackhammer in Part II. Explosives, drill steel, bits, gasoline and oil were not included. It is our understanding that Part II consists of sinking test pits and that these items of equipment and supplies would be necessary. The Geologic Report lists transportation. Is this necessary when living quarters are provided on the property? An allowance was not made for compensation, insurance or payroll taxes. The Geologic Report listed the rental of a gasoline driven compressor and hoist at $500.00 per month. This appears to be high. The Denver office of the Western Machinery Company rents 210 cu. ft. compressors for $165 per month. A small air hoist would probably be rented for $60.00 per month. The Western Machinery Company also rents jackhammers for $55.00 per month. The rental in the Geologic Report for a jackhammer, air hose and pressure tank is given at $150.00 per month.

[illegible]

The Geologic Report lists miners at $15.00 per day and a Supervisor at $540.00 per month. The application gives the wage rate for miners in the application as $1.50 per hour and the Supervisor's salary is given at $500.00 per month. Why was this amount increased? The rough draft of the contract was drawn up with miners' wages at $15.00 per day and the Supervisor's salary at $500.00 per month.

Kindly review the rough draft of the proposed contract and submit to this office any changes which you think would be more beneficial to the contract. Kindly return all the enclosed data when it has served your purpose.

W. H. King

W. H. King

Enclosures

JFS:oc

cc: DMA Subject, Chron.
AHKoschmann (2)

224 New Customhouse
Denver 2, Colorado

October 12, 1951

Mr. Ralph L. Albaugh, Secretary
The Barite Corporation
P. O. Box 74
Idaho Falls, Idaho

Dear Mr. Albaugh:

Referring to your letter dated October 11, regarding your application for an exploration loan, DMA Docket 2046, the brochure has been received from Washington and we will process your application as soon as possible.

We have limited personnel and have many applications. However, your property will be examined in the near future.

Yours very truly,

J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV

JHE:ld

cc: DMA docket, chron.
Koschmann
Wilson

February 14, 1952

Memorandum

To: A. H. Koschmann

From: Executive Officer, Region IV

Subject: DMEA Dockets

Will you please ascertain the status of the following dockets which our reports indicate are pending reports by the Survey:

DMEA 1294, Albert A. and Francis T. Leach, Grant County, New Mexico

DMEA 1957, Ellihill Mining Company, San Juan County, Utah

DMEA 2046, The Barite Corporation, Juab County, Utah

DMEA 2165, Silver Bell Mines Company, San Miguel County, Colorado

DMEA 2304, Larson and Plummer (Vasco Mines), Boulder County, Colorado

/s/ J. H. East, Jr.

J. H. East, Jr.

JHE:ftm.

COPY

LOS ANGELES ELKO, NEVADA

THE BARITE CORPORATION

P. O. BOX 74 • IDAHO FALLS, IDAHO

REGIONAL DIRECTOR'S OFFICE REGION IV OCT 12 1951 BUREAU OF MINES DENVER, COLORADO

October 11, 1951

Mr. J. H. East, Jr.
Defense Minerals Administration
New Custom House Building
Denver 2, Colorado

Subject: DMA-2046 - Exploration Loan

Dear Mr. East:

We recently received a letter from the Defense Minerals Administration, Washington, D. C., that our application for a loan has been referred to you for further processing.

This deposit of quartz crystal is situate at an altitude of approximately 7,000 feet, and it is impossible to work this property during the winter months.

We are very anxious to do more exploratory work before winter if it is possible to have our loan application processed in time. We are informed that this is the first deposit of quartz crystal ever discovered in the United States, and we are informed by the Emergency Procurement Service that they are anxious to obtain all of these crystals we can furnish to them.

Anything you can do to expedite the processing of this loan will be very much appreciated.

Very truly yours,

THE BARITE CORPORATION

By Ralph L. Albaugh
Ralph L. Albaugh
Secretary.

RLA/dnh

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-2046

Date received 9-7-51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 7 - 1951

The Barite Corporation
P. O. Box 74
Idaho Falls, Idaho

Name and address of applicant

Date August 30, 1951

FILL IN THIS BLOCK

Date of application August 30, 1951

Estimated cost $25,000.00

Mineral or metal Quartz crystal

Percentage of Government participation 90%

Location of mine On Goshute Indian Reservation, Juab County, Utah.

Date of filing MF-100

DMA Docket Number, if available 2046

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

The Barite Corporation
(Name of company)

By Ralph Gesas
(Signature of authorized official)

September 5, 1951
(Date)

President
(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

LOAN APPLICATION OF THE BARITE CORPORATION

THE APPLICANT

1. Applicant is a corporation incorporated in the State of Nevada and qualified to do business in Utah.

2. --

3. Ralph Gesas, President, P. O. Box 74, Idaho Falls, Idaho. E. A. Clawson, Vice-president, c/o Bank of Eastern Idaho, Idaho Falls, Idaho. Ralph L. Albaugh, Secretary and Treasurer, P. O. Box 428, Idaho Falls, Idaho. Ralph M. Parsons, Director, 617 S. Olive Street, Los Angeles, California. I. M. Riles, Director, 1340 North Lincoln, Burbank, California.

4. (a) Applicant was incorporated in Nevada on July 17, 1950, and since that time has mined approximately 8,000 pounds of crude quartz crystals on the Goshute Indian Reservation at Ibapah, Utah.

(b) Ralph Gesas, President of this corporation, is Vice-president of the Reliance Oil Company, Idaho Falls, Idaho, and has had 30 years of executive experience in the oil industry. Ralph L. Albaugh, the secretary and treasurer, is a lawyer practicing in Idaho Falls, Idaho, and owns and operates several ranches. E. A. Clawson, the vice-president of this corporation, is vice-president of the Bank of Eastern Idaho, Idaho Falls, Idaho, and has had many years experience in banking, stock ranching, and mining. Director Ralph M. Parsons is a contractor and engineer and president of the Ralph M. Parsons Company, with its principle offices at 617 S. Olive Street, Los Angeles, California, and branches in Washington, D. C., and other cities. Director I. M. Riles is an engineer, and has been in the employ of several large construction companies.

5. The Barite Corporation is the lessee of the property under an Indian lease from the Goshute Indian Tribe dated September 14, 1950, approved by the Bureau of Indian Affairs, Department of Interior, and by the Bureau of Mines.

6. No claims, liens, or encumbrances are against the property.

7. Lease is in good standing, and copy thereof is attached hereto. Lessors' only interest is the royalty which is payable from the proceeds of quartz crystals mined and sold, and from the nature of this lease, we suggest that no additional waiver or agreement from the lessors should be required.

8. Financial statement attached hereto.

THE BARITE CORPORATION

By Ralph Gesas

LOAN APPLICATION OF THE BARITE CORPORATION

9. Applicant is prepared to invest $6500.00 in proposed project. We believe this is sufficient to pay our part of the cost of the project.

THE PROPERTY

10. (a) 640 acres of land in the Goshute Indian Reservation near Ibapah, Utah.

(b) Legal description of land is as follows:

The Southeast Quarter of the Southeast Quarter (SE¼SE¼) of Section Twenty-seven (27), the East Half of the Northeast Quarter (E½NE¼) and the Northeast Quarter of the Southeast Quarter (NE¼SE¼) and Southeast Quarter (SE¼) of Section Thirty-four (34). Also, the following portions of unsurveyed sections Twenty-six (26) and Thirty-five (35), Southwest Quarter of the Southeast Quarter (SW¼SE¼) and South Half of the Southwest Quarter (S½SW¼), Section Twenty-six (26), West Half of the Northeast Quarter (W½NE¼), the Northwest Quarter (NW¼), the North Half of the Southwest Quarter (N½SW¼) and the Northwest Quarter of the Southeast Quarter (NW¼SE¼) of Section Thirty-five (35), all in Township Eleven (11) South, Range Nineteen (19) West SLB & M Meridian, in Juab County, Utah.

Exploration will be made on the entire tract of land, as there are numerous occurrences, indications, and outcroppings of quartz crystal on the tract. We have excavated a pit approximately 25 feet deep and approximately 14 feet in diameter from which we extracted approximately 8,000 pounds of crude quartz crystal.

11. No name.

12. This property is situate about 77 miles South of Wendover, Utah, a station on the Western Pacific Railroad, and the quartz crystal will be shipped from Wendover, Utah. Ely, Nevada, lies approximately 90 miles Southwest of this property, and this is also a railroad shipping point. A graded, graveled road runs from Wendover to Ibapah, Utah, and Ibapah, Utah, is approximately 12 miles from the property.

13. No water will be required for the operation, but there is a small creek running the year around through the property, which is sufficient for all requirements. No power will be used, excepting man power, tractors, and gasoline motors.

14. There are no existing useable facilities on the property, but storage space is available on the Indian Reservation within about 7 miles of the property.

THE BARITE CORPORATION

By Ralph Gesar

LOAN APPLICATION OF THE BARITE CORPORATION

15. The Quartz crystals will be shipped by truck from the mine to the railroad shipping point at Wendover, Utah, and will then be shipped to United States Testing Company, Inc., 1415 Park Avenue, Hoboken, New Jersey, or as instructed by General Services Administration, Emergency Procurement Service.

16. (a) The applicant commenced exploration work in September, 1950, and suspended work during the winter months because of snow conditions, as the property is situate at an elevation of approximately 7,000 feet. In April, 1951, the applicant excavated the pit above described and obtained therefrom the quartz crystals above stated. As there were no available testing facilities on the property, the crystals were shipped by truck to Idaho Falls, Idaho, and in August, 1951, these crystals were processed by Russell Rupert, of the Quartz Crystal Division, General Services Administration, Washington, D. C., and approximately 700 pounds of marketable quartz crystals were obtained from the whole lot. The applicant suspended work the latter part of June, 1951, due to a faulting condition in the pit, and decided that other pits should be opened, and further investigation and exploration made. Since that time, the property has been examined by U. S. Geological Survey and the U. S. Signal Corps and by Mr. Rupert, of the Quartz Crystal Division, General Services Administration.

(b) The known history and production is nil, except as above stated.

(c) For reports and examinations, the applicant refers you to Mr. Rupert, of the Quartz Crystal Division; Mr. Phelps, of the U. S. Bureau of Standards, Washington, D. C.; Mr. Waesche, of the U. S. Signal Corps, Fort Monmouth, New Jersey; Mr. R. V. Lewis, General Electric Company, Syracuse, New York, and Mr. Bywater, of the U. S. Geological Survey, Salt Lake City Office.

17. It is impossible to answer this question, as most of the work done has been exploratory in nature. The crystals above mentioned will be shipped in a few days to U. S. Testing Company, Hoboken, New Jersey, and until they are finally graded and processed, we have no returns thereon and cannot state the value thereof.

18. The applicant has found quartz crystal of commercial value in pegmetite dykes. No maps are available, and it is impossible to give an extimate of tonnage or grade.

19. Applicant has signed contract with General Services Administration, Emergency Procurement Service, to purchase applicant's production.

THE BARITE CORPORATION

By Ralph Gesas

LOAN APPLICATION OF THE BARITE CORPORATION

THE EXPLORATION

20. Exploration will be conducted for quartz crystals.

21. The estimated time to complete this exploration will be two years, as no work can be done during the winter months. Removing the topsoil and excavating pits where ever there is a showing of quartz crystals.

22. Applicant refers you to No. 16 above.

THE REQUIREMENTS AND COSTS

23. See Schedule 23 hereto attached.

24. See Schedule 23 hereto attached.

COPY

THE BARITE CORPORATION

By Ralph Gesar

SCHEDULE 23 -- Supplement to Form MF 103

	1951 Nov.	1952 May	1952 June	1952 July	1952 Aug.	1952 Sept.	1952 Oct.	1952 Nov.	TOTAL
(a) Seven men (miners or muckers) at 40 hours per week @ $1.50 per hour	$1680	$1680	$1680	$1680	$1680	$1680	$1680	$1680	$13,440.
(b) Supervisor's Salary @ $500.00 per month	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 4,000.0
(c) Repairs to heating, plumbing and roof on housing facilities now near location for men and superintendent	$ 500								$ 500.00
(d) Construction of hoist house over project mine	$ 200								$ 200.00
(e) Cook tent, sleeping tent, cook stove and lumber	$ 300								$ 300.00
(f) Rental of crawler tractor with dozer attached @ $10.00 per hour for 100 hours, making roads and some exploratory work	$1000								$ 1,000.00
Rental of small air compressor and hoist @ $200.00 per month	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 1,600.00
Rental of four-wheel drive pickup truck	$ 400	$ 400	$ 150	$ 150	$ 150	$ 150	$ 150	$ 150	$ 1,700.00
(g) None - All equipment to be donated at no cost to project.									
(h) Miner's picks & shovels $48.00, Hand Steel $25.00, Used Blacksmith Forge $20.00	$ 138.00								$ 138.00
(i) Dynamite for road work, etc. $100.00, Pipe $100.00, Lumber $150.00, Timber $500.00, Gasoline, oil, etc. $1272.00	$ 990.00	$ 250	$ 150	$ 150	$ 147	$ 145	$ 145	$ 145	$ 2,122.
	$5908	$3030	$2680	$2680	$2677	$2675	$2675	$2675	$25,000

THE BARITE CORPORATION

By Ralph Gesas

Form 5-157 b
(April 1940)

CONTRACT NO. I..... IND. .....

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS

MINING LEASE—TRIBAL INDIAN LANDS

(FOR MINERALS OTHER THAN OIL AND GAS)

Goshute Indian Tribe, State of Utah

THIS INDENTURE OF LEASE, made and entered into in quintuplicate this [illegible] day of September, 1950, by and between Confederated Tribes of the Goshute Reservation Utah

of Ibapah, State of Utah

for and on behalf of the Confederated Goshute Tribe of Indians, designated herein as lessor, and The Barite Corporation

of Idaho Falls, State of Idaho

herein designated as lessee:

WITNESSETH

1. That the lessor , for and in consideration of $1, receipt whereof is hereby acknowledged, and of the royalties, covenants, stipulations, and conditions hereinafter contained and hereby agreed to be paid and observed by the lessee, doth hereby demise, grant, and lease unto the said lessee, the following-described tract of land lying and being within the Goshute Indian Reservation, County of Juab and State of Utah, to wit: SE¼ of SE¼ Section Twenty-seven (27), E½ of NE¼ and NE¼ of SE¼ of Section Thirty-four (34). Also the following portions of unsurveyed sections Twenty-six (26) and Thirty-five (35), SW¼ of SE¼ and S½ of SW¼ Section Twenty-six (26), W½ of NE¼, NW¼, N½ of SW¼ and NW¼ of SE¼ of Section Thirty-five (35)

~~of section~~ all in, township 11 South, range 19 W SLB & M. meridian, and containing 440 acres, more or less, for the full term of 10 years from the date of approval hereof, for the sole purpose of prospecting for and mining minerals, as follows: Barite and other minerals found in quantity and quality sufficient to warrant their exploitation.

16—15639

the lessee to occupy so much only of the surface of said land as may be reasonably necessary to carry on the work of prospecting for, mining, milling, storing, and removing such minerals.

2. The term "Superintendent" as used herein shall refer to the superintendent or other official in charge of the Indian Agency having jurisdiction over the lands leased.

3. In consideration of the foregoing, the lessee hereby agrees:

(*a*) ROYALTY.—To pay, or cause to be paid, to the Superintendent, for the use and benefit of the lessor, or to the Treasurer of said Tribe where the tribe is organized under the act of June 18, 1934 (48 Stat. 984), as royalties, the sums of money as follows, to-wit:*

~~See rider attached and by reference is made a part hereof:~~

RIDER: 3(a)

A royalty of 10% on the gross smelter, mill, mint, laboratory or processing returns on all minerals or materials extracted from, and shipped from said lands on the first $100,000 of gross returns, which royalty shall increase 1% on each additional $100,000 of gross returns to and including $500,000 gross ~~royalties~~ returns, and thereafter royalty payments shall be 15% on the said gross returns. It being the intention of the parties that said royalties shall be paid as follows:

On the first $100,000	10%
Between $100,000 and $200,000	11%
Between $200,000 and $300,000	12%
Between $300,000 and $400,000	13%
Between $400,000 and $500,000	14%
Over $500,000	15%

L. P.
B. S.

The term "gross returns" is hereby defined as being the amount received from any smelter, mill, mint, laboratory or processing plant, without deductions of any nature, kind or description; it being understood that the lessee shall pay and bear at its sole cost and expense all charges for mining, excavating, trucking, transportation, milling or processing.

All royalties accruing for any month shall be due and payable on or before the 25th day of the month succeeding.

(*b*) ANNUAL RENTAL.—To pay, or cause to be paid, to the Superintendent for the use and benefit of the lessor, or to the Treasurer of said Tribe where the tribe is organized under the act of June 18, 1934 (48 Stat. 984), in advance beginning with the date of approval of the lease, as annual rental, the following: 25 cents per acre for the first calendar year or fraction thereof, 50 cents per acre per annum for the second and third years, and $1 per acre per annum in advance for each and every calendar year thereafter during the continuance of the lease; it being understood and agreed that said sum so paid shall be a credit on the royalties accruing during the year for which the payment of annual rental is made, and that said annual rental when paid shall not be refunded to the lessee because of any subsequent surrender or cancelation hereof.

(*c*) DILIGENCE, PREVENTION OF WASTE.—To exercise diligence in the conduct of prospecting and mining operations; to carry on development and operations in a workmanlike manner and to the fullest possible extent; to commit no waste on the said land and to suffer none to be committed upon the portion in his occupancy or use; to comply with all the requirements of the laws of the State in which the land is located; to take appropriate steps for the preservation of the property and the health and safety of workmen; promptly to surrender and return the premises upon the termination of this lease to whomsoever shall be lawfully entitled thereto, in as good condition as received, excepting for the ordinary wear and tear and unavoidable accidents in their proper use; not to remove therefrom any buildings or permanent improvements erected thereon during the said term by the said lessee, but said buildings and improvements shall remain a part of said land and become the property of lessor, excepting the office fixtures and records, personal property, tools, pumping and drilling outfits, boilers, engines, and mining machinery, which shall remain the property of the lessee and may be removed at any time prior to 60 days after the termination of the lease by forfeiture or otherwise, provided the payments agreed upon by this lease have been made and the lease terms and regulations applicable thereto have been fully complied with, but not otherwise; not to permit any nuisance to be maintained on the premises under lessee's control, nor allow any intoxicating liquors to be sold or given away for any purpose on such premises; and not to use such premises for any other purposes than those authorized in this lease.

(*d*) DEVELOPMENT.—The land described herein shall not be held by the lessee for speculative purposes, but in good faith for mining the minerals specified; and the failure by the lessee in the diligent development and continued operation of the mine or mines, except when operations may be interrupted by strikes, the elements, or casualties not attributable to the lessee, shall be held as a want of compliance with the purposes of this lease and shall render it subject to cancelation: *Provided*, That whenever the Secretary of the Interior shall consider the marketing facilities inadequate or the economic conditions unsatisfactory, he may authorize the suspension of operations for such time as he may deem advisable, but such action will not release the lessee from the payment of the advance annual rental.

(*e*) MONTHLY STATEMENTS.—To keep an accurate account of all mining operations, showing the sales, prices, dates, purchasers, and the whole amount of minerals mined, the amount removed, and the gross receipts derived therefrom, and to furnish the Superintendent or the Treasurer of said Tribe if payments are made to him, sworn

*Here insert the royalties agreed upon in accordance with applicable regulations.

monthly reports thereon not later than the 25th of the succeeding month; and all sums due as royalty and advance rental shall be a lien on all implements, tools, movable machinery, and all other personal chattels used in operation upon said property, and upon all of the unsold minerals obtained from the land herein leased, as security for payment of said sums. An audit of the lessee's accounts and books shall be made annually or at such times as may be directed by the Superintendent by certified public accountants approved by the Secretary of the Interior and at the expense of the lessee. The lessee shall furnish free of cost a copy of such audits to the Secretary of the Interior through the Superintendent within 30 days after the completion of each auditing.

(*f*) REGULATIONS.—To abide by and conform to any and all regulations of the Secretary of the Interior now or hereafter in force relative to such leases: *Provided*, That no regulations hereafter approved shall effect a change in rate of royalty, the annual rental herein specified, or the term of this lease, without the written consent of the parties to this lease.

(*g*) ASSIGNMENT OF LEASE.—Not to assign this lease or any interest therein by an operating agreement or otherwise nor to sublet any portion of the leased premises, except with the approval of the Secretary of the Interior. If this lease is divided by the assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease.

(*h*) BOND.—To furnish such bond as may be required by the regulations of the Secretary of the Interior conditioned upon compliance with the terms of this lease.

4. MILLING.—All ores or minerals mined on said land shall be cleaned and prepared for market thereon, and no ore or crushed material shall be removed therefrom to be cleaned or prepared for market without the written consent of the Secretary of the Interior.

5. INSPECTION.—The leased premises and producing operations, improvements, machinery, and fixtures thereon and connected therewith and all books and accounts of the lessee shall be open at all times for inspection by agents of the lessor or any duly authorized representative of the Secretary of the Interior.

6. DISPOSITION OF SURFACE.—The lessor expressly reserves the right to lease, sell, or otherwise dispose of the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such disposition to be subject at all times to the right of the lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the minerals from the land herein described in accordance with this lease.

7. SURRENDER AND TERMINATION.—The lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of all rentals, royalties, and other obligations due and payable to the lessor, and the further sum of $1, upon a showing satisfactory to the Secretary of the Interior that full provision has been made for the conservation and protection of the property, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded lessee shall file a recorded release with his application to the Superintendent for termination of this lease.

8. CANCELATION AND FORFEITURE.—When, in the opinion of the Secretary of the Interior, there has been a violation of any of the terms and conditions of this lease before restrictions are removed, the Secretary of the Interior shall have the right at any time after 30 days' notice to the lessee, specifying the terms and conditions violated, and after a hearing, if the lessee shall so request within 30 days of receipt of notice, to declare this lease null and void, and the lessor shall then be entitled and authorized to take immediate possession of the land.

9. HEIRS AND SUCCESSORS IN INTEREST.—It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

10. GOVERNMENT EMPLOYEES CANNOT ACQUIRE LEASE.—No lease, assignment thereof, or interest therein will be approved to any employee or employees of the United States Government whether connected with the Indian Service or otherwise, and no employee of the Interior Department shall be permitted to acquire any interest in such leases by ownership of stock in corporations having leases or in any other manner.

IN WITNESS WHEREOF, the said parties have hereunto subscribed their names and affixed their seals on the day and year first above mentioned.

Two witnesses to execution by lessor:

Bob Steele

P. O. Ibapah Utah

Jim Peters

P. O. Pasadena Calif

Two witnesses to execution by lessee:

John L. Boen

P. O. Idaho Falls, Idaho

Geo L. Barnard

P. O. Idaho Falls, Idaho

Confederated Tribes of the Goshute Reservation Utah.

By: Leo Pete [SEAL]

Leo Pete, Chairman, Goshute Business Council

[SEAL]

THE RARITE CORPORATION

By: Ralph Geraci [SEAL]

Ralph Geraci, President.

THE RARITE CORPORATION.

Attest: By C. A. Clawson

C. A. Clawson, Assistant Secretary

ACKNOWLEDGMENT OF LESSOR

STATE OF Utah }
COUNTY OF Tooele } ss:

Before me, a notary public, on this 14th day of September, 1950, personally appeared Leo Pete, Chairman Goshute Business Council, to me known to be the identical person, who executed the within and foregoing lease, and acknowledged to me that he executed the same in his official capacity as Chairman, Goshute Business Council as free and voluntary act and deed for the uses and purposes therein set forth.

Mary S. Nicholas
Notary Public

My commission expires May 27, 1952

UNITED STATES DEPARTMENT OF THE INTERIOR

Washington, D. C., ..., 19....

The within lease is hereby ..... approved.

Assistant Secretary of the Interior.

Filed for record this ..... day of ....., 19....

at ..... o'clock ..... m.

By .....

Rental received, $.....

16—15629 U. S. GOVERNMENT PRINTING OFFICE

224 New Customhouse
Denver 2, Colorado

October 1, 1951

Memorandum

To: Stephen R. Wilson (with brochure)

(Through Chief, Mining Division, Region IV)

Ralph Roberts (with brochure)

From: DMA Field Team, Region IV

Subject: DMA Docket 2226, The Barite Corporation, applicant, Ko Mana Quartz Crystal Deposits, Ouimbete Indian Reservation, Juab County, Utah

We enclose herewith application for an exploration project of the subject docket with an estimated cost of $25,000.

A field investigation is required to determine whether or not there are quartz crystals of piezo-electric quality. If there do occur, a definite plan of exploration should be worked out with the applicant.

J. H. East, Jr.

for A. H. Koschmann

Enclosures

WDM:oj
cc: DMA Subject and Chron.
AHKoschmann

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

224 Customhouse
Denver 2, Colorado

May 15, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2066, The Barite Corporation, Goshute Quartz Crystal Deposits, Goshute Indian Reservation, Juab County, Utah

Exploration assistance in the amount of $10,176 has been approved for the Barite Corporation and the contract will be prepared by this office.

Four copies of the report will be forwarded you when the contract is signed.

The original and one copy of Form 3b is attached.

J. H. East, Jr.

A. H. Koschmann

cc: SRWilson w/copy of final report
R.Roberts w/copy of final report
A.H. Koschmann w/copy of final report
DMA Final Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

March 3, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 2046, The Barite Corporation, Goshute Quartz Crystal Deposits, Goshute Indian Reservation, Juab County, Utah

Enclosed are eight copies of the geologic report by R. J. Roberts, J. W. Hasler, and B. J. Sharp, of the U. S. Geological Survey covering the above docket. It has been recommended that the loan be approved.

The U. S. Bureau of Mines will not submit an engineering report.

The brochure is enclosed.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)
and brochure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
29 February 1952

Memorandum

To: A. H. Koschmann, Field Team, Region IV

Subject: DMA Docket 2046, The Barite Corporation, Goshute Quartz Crystal Deposits, Goshute Indian Reservation, Juab County, Utah.

Enclosed are eight copies of a geologic report of the Goshute Quartz Crystal deposit on the Goshute Indian Reservation, Juab County, Utah, under lease by the Barite Corporation, Idaho Falls, Idaho.

The piezoelectric quartz that has been mined is in a pegmatite dike that cuts quartz monzonite. The pegmatite has yielded considerable quartz that may meet Signal Corp specifications.

Several other quartz-bearing pegmatites and veins are known throughout the area, but so far no quartz of piezoelectric quality has been discovered from these other deposits.

A limited exploration program has been outlined with the applicant to obtain preliminary geologic data, and to thoroughly explore the area. Exploration will be by bulldozer trenching and by digging test pits on all locations favorable for the occurrence of quartz crystals of piezoelectric quality, and by extending the present shaft an additional 20 feet.

It is concluded that there is a fair chance of finding additional deposits of piezoelectric quartz in the Goshute Quartz mine property, and it is therefore recommended that the Defense Minerals Exploration Administration enter into a contract with the applicant to do the proposed work herein outlined. The total cost of the project is $8,187.24. On a 90-10 percent participation basis, the government's share will be $7,364.01.

There was no field team request for an engineering report by the U. S. Bureau of Mines, however, they aided materially in outlining the exploration costs.

I concur with the recommendations of the examining geologists.

J. William Hasler

J. William Hasler
For - Ralph J. Roberts

MAR 1952
RECEIVED
U.S. Geological Survey
Mineral Deposits Branch
Denver

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA 2046, The Barite Corporation

Goshute Quartz Crystal Deposits

Goshute Indian Reservation

Juab County, Utah

R. J. Roberts, J. W. Hasler, and B. J. Sharp
Geologists
U. S. Geological Survey

February 29, 1952

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LIST OF ILLUSTRATIONS

Figure 1. Index map of Western Utah.

Figure 2. Sketch map of workings, Goshute Quartz mine, Juab County, Utah.

Docket DMA 2046, The Barite Corporation

Goshute Quartz Crystal Deposits

Goshute Indian Reservation

Juab County, Utah

INTRODUCTION

The Goshute Quartz deposit was visited August 18 and 19 by George Rywater of the Conservation Branch, U. S. Geological Survey, Hugh Waesche, Signal Corps, and Ralph J. Roberts, Mineral Deposits Branch, U. S. Geological Survey, to evaluate the deposits as a possible source of piezoelectric quartz. The deposits were again visited October 30 - November 1 by J. William Hasler and Byron J. Sharp of the U. S. Geological Survey in response to a request for a field examination by the Field Team, Region IV, Defense Minerals Administration.

Location and Accessibility

The Goshute Quartz deposit is in Juab County, Utah, on the west flank of the Deep Creek Range (fig. 1) 76 miles by road south of Wendover, Utah. The property can be reached by travelling 27 miles south from Wendover, U. S. Highway 50, then turning southeastward for 32 miles to Ibapah, Utah, then continuing 15 miles southeastward to the property. The workings are at an altitude of about 7,700 feet on the north side of Dads Creek and on the long ridge east of the Queen of Sheba Mine, which is south of the quartz crystal property.

History and production

Quartz showings were first discovered by Frank Steele in 1940 when he noted quartz and beryl crystals in float. A pit three feet deep was dug on the discovery site and the crystals were piled nearby on the dump. From time to time crystals from the property were exhibited at fairs and made available to collectors, but none were sold. In 1950 the property was brought to the attention of Ralph Gesas and E. A. Glawson of Idaho Falls, Idaho, and they, together with their associates in the Barite Corporation, began negotiations to obtain a lease on the property.

A lease was signed on September 14, 1950, but mining operations were not begun until 1951. During April, 1951, 2,617 pounds of quartz was removed from the property, and during May, 1951, 4,116 pounds were removed. Of those shipments, one crystal weighing 35 pounds and 2 ounces was sold to the Applied Physics Company, Pasadena, California for $300.00. The remainder was sent to Idaho Falls and was there cobbed. Negotiations were being carried on during August, 1951 with the General Services Administration concerning the purchase of the cobbed material which is estimated to weigh about 500 pounds.

It is reported that much valuable crystal was removed from the workings and destroyed by unauthorized persons during April and May, 1951. Estimates of the value of the crystal that was destroyed are as much as $20,000, but this figure may be high.

No quartz was mined from the main workings during June or July, 1951, but some trenching was done on outlying prospects. A few quartz crystals were found, most of which were milky. Some fragments of clear quartz were observed in the float.

GEOLOGY

The area is underlain by quartz monzonite which is cut by pegmatite and quartz veins. A few miles to the south and north the quartz monzonite is in contact with sedimentary rocks presumed to be of Paleozoic age. Quaternary alluvium flanks the range on the west.

The quartz monzonite is a coarse grained, light, pinkish gray porphyritic rock. The phenocrysts are principally potash feldspar in a groundmass of quartz, plagioclase, biotite, and hornblende. The quartz monzonite is remarkably uniform throughout the area examined. It forms craggy outcrops and the west face of the range is extremely precipitous.

The pegmatite dikes are generally small, ranging from a few inches to 8 feet wide, and are a few tens of feet long. Potash feldspar, probably orthoclase, plagioclase, muscovite, and quartz are the principal minerals; accessory garnet, pyrite, and beryl are present locally.

The pegmatites are rudely zoned; commonly they are composed of a graphic granite outer zone and a quartz-potash feldspar-plagioclase-muscovite inner zone. The large radio quality quartz crystals are generally in the central part of the inner zone. Graphic granite forms the wall of the Goshute quartz-bearing pegmatite in places.

The quartz veins that locally cut the quartz monzonite appear to be related to the pegmatites in that they contain some feldspar, and the quartz is generally milky, similar to the quartz crystals in the pegmatites. Locally, however, the quartz shows comb structure, and some minute relatively clear crystals were noted.

Beryl is a notable accessory mineral reported from some of the pegmatite dikes in the Goshute Reservation area. The crystals of beryl are commonly

small, ranging from a fraction of an inch to 3 inches in diameter, and specimens as much as 8 inches long are reported.

QUARTZ DEPOSITS

The quartz deposit that has been explored is shown on figure 2 and plate 1. Another prospect pit was visited south of the main pit on the long ridge immediately north of the Queen of Sheba Mine.

The radio quality quartz that has been mined was found in a lenticular body of pegmatite about 35 feet long and as much as 8 feet wide (fig. 2). The quartz crystals were in the inner zone of the pegmatite in a matrix of potash feldspar, plagioclase, fine-grained quartz, and locally, muscovite. The quartz crystals are commonly milky and a few are smokey. Most of the crystals containing clear quartz have been removed or broken, but it is inferred that the clear parts were principally on the pyramidal termination. Some crystals are reported to have been nearly all clear quartz with only small imperfections such as veils, inclusions, and shadows. The crystals range from a fraction of an inch to 5 feet long and were as much as 3 feet in diameter. The largest crystal actually sold to date weighed 35 pounds 2 ounces.

Most of the crystals remaining in the pit are valueless because they are milky quartz or are broken. The pegmatite is said to have narrowed downward at the bottom of the pit, and may have pinched out. Quartz crystals are exposed on the northwest and southeast walls of the pit, but the pegmatite narrows in these directions beyond the pit and grades laterally into feldspar-quartz intergrowths. The quartz-bearing shoot may end in a few feet from the present pit.

The prospect pit to the south on the north side of a long ridge north of the Queen of Sheba mine was a shallow pit only 2 1/2 feet deep and 36 inches wide. The quartz exposed was in large crystals and most of them were milky. A lamprophyre dike trending northeast cuts through the prospect pit forming a footwall, with the quartz and pegmatite trending southeast. The pegmatite weathers easily and consequently forms very poor outcrops. The country rock around this pit is a coarse grained gray granite cut by small pegmatite dikes that trend south-southeast. The pegmatite dikes which are bordered by graphic granite, contain coarse grained orthoclase crystals, quartz and tourmaline and a very few beryl crystals. These pegmatite dikes range in size from 1 inch to as much as 18 inches wide and appear to be quite lenticular along their strike.

A considerable amount of quartz crystal float was found below the pit. Most of the quartz was milky, but several clear crystals were found. The abundance of good quartz crystal float seems to warrant further exploratory work on this ridge as well as on other reported occurrences along the west flank of the Deep Creek range.

QUARTZ RESERVES

Although a few quartz crystals remain in the walls of the pit, there are no minable reserves of quartz. The remaining crystals are either milky or are fractured and are therefore valueless.

The outlook for the discovery of usable crystals in the vicinity of the main prospect pit is not too promising as the pegmatite pinches out at the surface. Crystals can be found at depth below the bottom of the pit and

along the strike of the pegmatite, but they are enclosed in extremely hard rock and the blasting necessary to explore the pegmatite would probably break most of the crystals.

No minable reserves of quartz crystal can be calculated from the present meager showings, but there is enough quartz crystal float and vein quartz throughout the various prospect pits to warrant some exploratory work.

PROPOSED EXPLORATION

The Barite Corporation officials have applied for an exploration loan of $25,000 to prospect various showings of quartz crystals on the Goshute Indian reservation, Juab County, Utah.

An exploration program to explore each occurrence of quartz crystal in the area covered by the mining lease has been outlined with the applicant.

The exploration program will be carried out under the supervision of a consulting geologist and mine supervisor provided for under the contract. They will supervise such shaft work on the original discovery as is deemed necessary to prove or disprove the occurrence of more quartz crystals beyond the bottom of the present shaft, and will also supervise bulldozer trenching and the sinking of test pits to thoroughly explore all the present occurrences of quartz crystal and any additional discoveries that might be made during the period of exploration.

A limited exploration program has been outlined with the applicant to obtain preliminary geologic data, and to thoroughly explore the area by bulldozer trenching and by digging test pits on all locations favorable for occurrence of quartz crystals of piezoelectric quality.

The proposed project for the Goshute Quartz property is divided into three parts: (1) bulldozing, (2) test pits at favorable stripped locations, and (3) timber 20 feet of existing shaft and extend the shaft an additional 20 feet. The exploration costs are as follows:

1. Bulldozing and stripping

Contract - 120 hours @ $12.00 per hour	$1,440.00
Drayage	300.00
	$1,740.00

2. Test pits

(12 pits. Two men can complete a pit in three shifts.) A total of 18 days to complete test pit work.

Labor per shift

2 miners @ $15.00 per 8-hr. shift including insurance, OAB, etc.	30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision - $540 per month, $20.00 per shift	20.00
Geologist $50.00 per day, prorated	25.00
Total	$ 102.00
Total labor to complete 12 pits - 18 x $102.00	$1,836.00

Supplies for test pits

Explosives (powder, fuse, caps)	150.00
Steel 10 sets - 1', 2', 3'	100.00
Miscellaneous hand and blacksmith tools	150.00
Transportation	175.00
	$ 575.00

Total cost of test pits

Labor, 18 shifts	$1,836.00
Supplies	575.00
	$2,411.00

3. **Timber shaft and extend shaft an additional 20 feet**

Labor per shift

2 miners @ $15.00 per 8-hr, shift including insurance, OAB, etc.	30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision - $540 per month, $20.00 per shift	20.00
	$ 77.00
10 shifts required to timber shaft - labor 10 x $77.00	770.00

Supplies for timbering shaft

4 M bd. feet of timber @ $100	400.00
Miscellaneous	75.00
Total	$ 475.00

Total cost of timbering first 20 feet of shaft

Labor	$ 770.00
Supplies	475.00
Total	$ 1,245.00

Extension of shaft 20 feet

It is estimated that a 4-man crew will be able to drill, blast, muck, and timber 3 feet in 2 shifts, or 20 feet in 14 shifts, therefore advance per shift will be 1 1/2 feet.

Cost per 1 1/2 feet of advance is estimated as follows:

2 miners @ $15.00 per 8-hr. shift including insurance, OAB, etc.	$ 30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision, $540 per month, $20.00 per shift	20.00
Geologist, $50.00 per day prorated	12.50
Explosives (powder, fuse, caps)	8.00
Power (gas and lub. for compressor and hoist)	10.00
Timber	5.00
Transportation	7.50
Pipe, 2" - 100' (2 lines - pump discharge and air line)	2.75
Steel and bits	6.75
Equipment rental	26.66
Miscellaneous	7.50
Cost per shift	$ 163.66
Cost of shaft sinking 14 x $162.16	$2,291.24

Supplies

Explosives (powder, fuse and caps)	$ 112.00
Power (gas and lubricants for compressor and hoist)	140.00
Timber	70.00
Pipe	38.50
Steel and bits	94.50
Miscellaneous	105.00
Total	$ 560.00

Equipment Rental

Gasoline driven compressor and hoist	$ 500.00 per mo.
Pickup truck	300.00 per mo.
Air driven water pump	50.00 per mo.
Jackhammer, air hose, pressure tank	150.00 per mo.
	$1,000.00

Labor

2 miners @ $15.00 per 8hr. shift including insurance, OAB, etc.	$ 30.00
2 muckers @ $13.50 per 8-hr. shift including insurance, OAB, etc.	27.00
Supervision, $540 per month, $20.00 per shift	20.00
Geologist $50.00 per day prorated	12.50
Total	$ 89.50

Facilities

Three tent covered wood platforms will be sufficient to accomodate the employees. Estimated cost of this facility is	$ 500.00

Summary of Project Costs

Project 1	$1,740.00
Project 2	2,411.00
Project 3	
Timber shaft	1,245.00
Extend shaft 20 feet	2,291.24
Facilities	500.00
	$8,187.24

Estimated total time - 2 months

CONCLUSIONS AND RECOMMENDATIONS

The piezoelectric quartz that has been mined is in a pegmatite dike that cuts quartz monzonite. The pegmatite has yielded considerable quartz that may meet Signal Corps specifications, but the easily obtained material has been mined out. The pegmatite may contain clear quartz at depth, but the enclosing rock is hard and it is unlikely that crystals can be mined without fracturing them.

Several other quartz-bearing pegmatites and veins are known throughout the area, but so far no quartz of piezoelectric quality has been discovered. A comprehensive prospecting program might well reveal piezoelectric quartz in some veins. Such a program may prove costly, but because of the present national demand for piezoelectric quartz, it is felt that at least the known quartz-bearing pegmatites in the area should be thoroughly explored.

The Barite Corporation officials have applied for an exploration loan of $25,000 to prospect the various showings of quartz crystals. A limited exploration program has been outlined with the applicant to obtain preliminary geologic data, and thoroughly explore the area by bulldozer trenching and by digging test pits on all locations favorable for the occurrence of quartz crystals of piezoelectric quality. It is concluded that there is a fair chance of finding additional deposits of piezoelectric quartz in the Goshute Quartz mine property, and it is therefore recommended that the Defense Minerals Exploration Administration enter into a contract with the applicant to do the proposed exploration work herein outlined. The total cost of the project is $8,182.24. On a 90-10 percent participation basis the government's share will be $7,364.01.

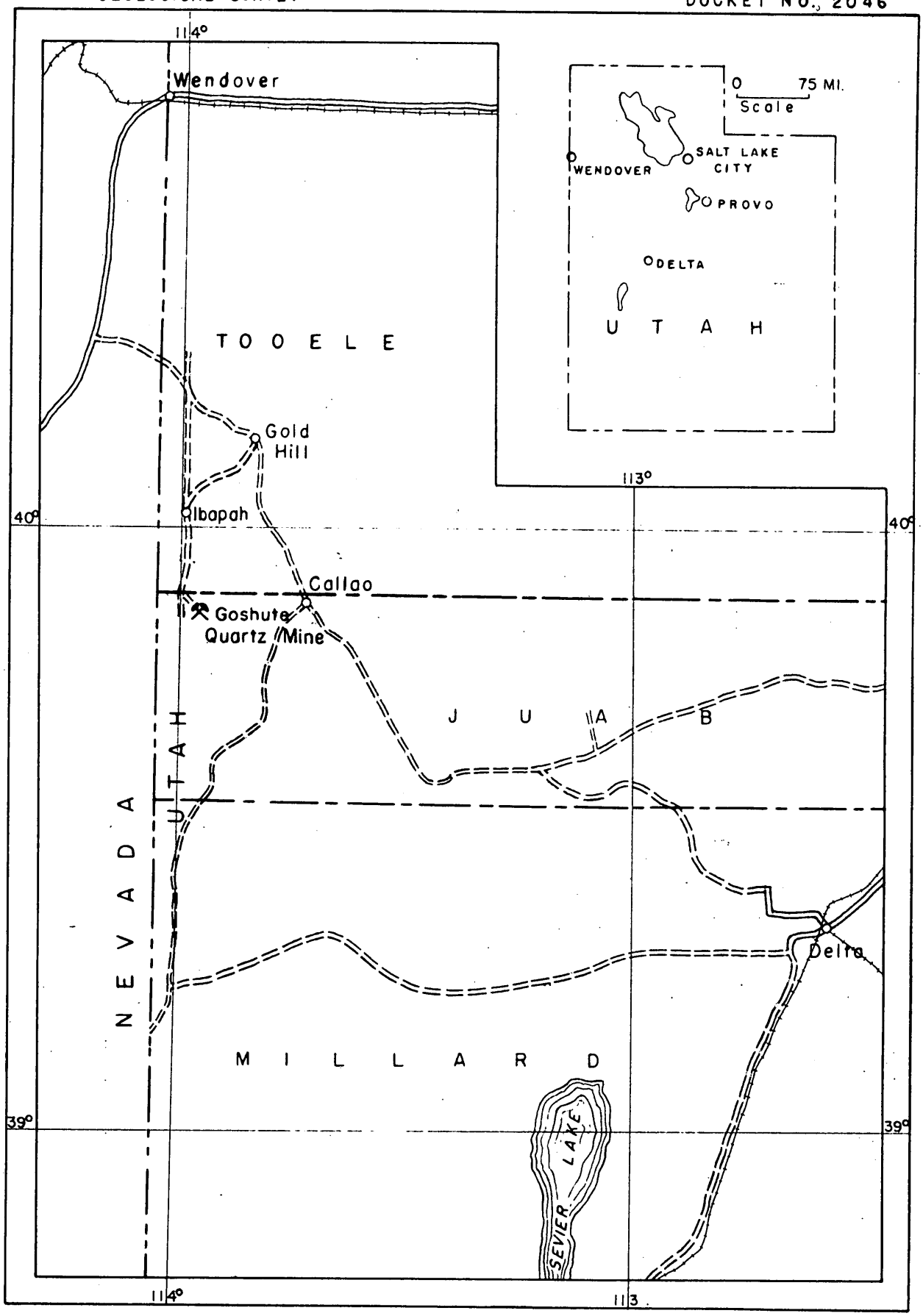

FIG. I INDEX MAP OF WESTERN UTAH

0 5 10 15 20 MILES
Scale

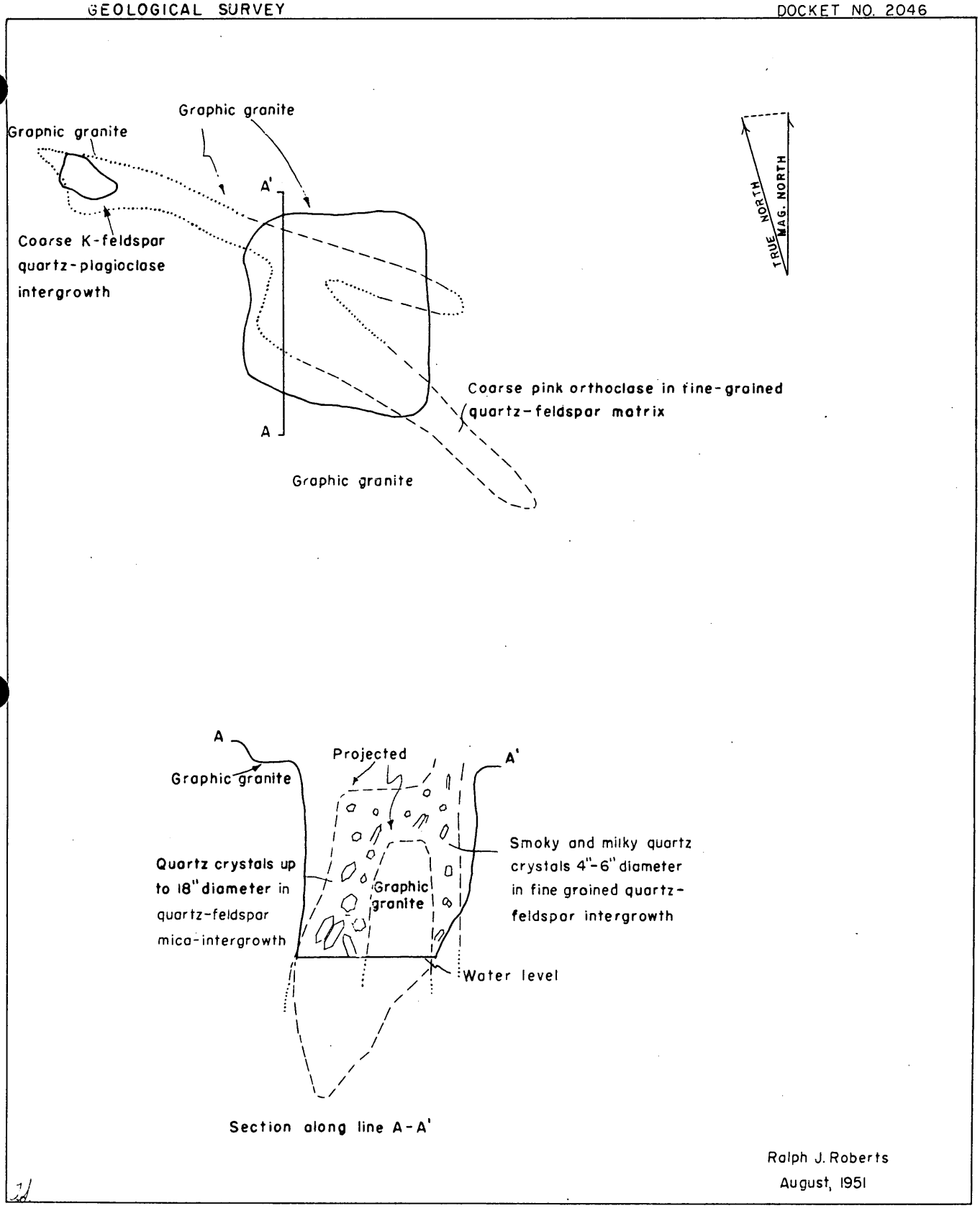

FIG. 2 SKETCH MAP OF THE WORKINGS, GOSHUTE QUARTZ MINE
JUAB COUNTY, UTAH

0 10 20 FEET
Scale