MF-200 (A)
(February 1952)

DOCKET No. DMEA-2092

COMMODITY Mica

Docket Copy

IDM-E 535

Department of the Interior
Defense Minerals Administration
RECEIVED
JUN 1 1953

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 29th day of May, 1953 between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Clyde H. Bowman and Fred G. Bowman, both of Granite Falls, North Carolina, doing business as Bowman Brothers, Partners

hereinafter called the "Operator," as follows: and as in Annexes I and II attached hereto and made a part hereof.

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of North Carolina, County of Caldwell, described as ~~follows~~[3] set forth in Annex II,

the Operator represents and undertakes:[4]

(*a*) That the Operator is the 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:

None

~~(b) That the Operator is in possession and entitled to possession and the Owner's Consent to Lien is attached.~~

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.

ARTICLE 3. *Exploration project.*—The Operator, within 60 days from the date of this contract shall commence work on a project of exploration for[5] Mica

in or upon the described land; and shall bring the project to completion within a period of four (4) months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. 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.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $2,790.00, which is 90 percent of $3,100.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[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, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, 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. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows: See Annex I, substituted for that part of C(a) preceding the colon:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *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 worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

_____

_____

_____

_____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

BOWMAN BROTHERS
(Operator)

By O. Mittendorf
Administrator, Defense Minerals Exploration Administration

By Clyde H Bowman (Partner)

By Fred G. Bowman (Partner)

I, _____, certify that I am the _____ secretary of the corporation named as Operator herein; that _____, who signed this contract on behalf of the Operator, was then _____ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

_____ [CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

ANNEX I

The following provisions are in lieu of all of paragraph (a) of Article 6 which precedes the colon:

If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account required by the exploration project contract, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development. The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land which is the subject of the exploration project contract, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

EXPLORATION PROJECT CONTRACT
BOWMAN BROTHERS
DOCKET NO. DMKA-2882

ANNEX II

The land referred to in Article 2 of the contract form is described as follows:

BEGINNING on a stone located on the Northeast side of a branch, formerly a red oak, Bowman's and Kahnlee's present corner, and runs with Bowman's and Kahnlee's line South 89° 30' East 8 poles and 5 links to a stone, Bowman's, Kahnlee's and Freeman's corner; thence with Bowman's and Freeman's line North 7° 30' East 38 poles to a hickory, Bowman's and Freeman's corner; thence still with Ed Freeman's and Bowman's line South 87° 30' East 15 poles to a stone, Bowman's and Elbert Freeman's corner in Ed Freeman's line; thence with Bowman's and Elbert Freeman's line North 2° East 50 poles to a stone on the South side of a branch, Bowman's and Freeman's corner in the Champion Fiber Company's line; thence with said company's line North 87° West crossing a branch at 6 poles,—in all 20 poles to a stake and pointers, said company's corner; thence still with said company's line North 85° West 17 poles to a black oak and stake, said company's corner; thence still with said line North 88° West 57 poles to an iron pin on the South edge of a branch, said company's corner, also Bowman's and John Clarke's corner; thence with Clarke's and Bowman's line present bearing South 1° West 71 poles to a holly tree located on the North bank of a branch, Clarke's and Bowman's corner; thence with center of said branch general bearing South 73° East 67½ poles to the point of beginning, containing 44.11 acres, more or less. Magnetic bearings and surface measurement, Survey and description by Thomas P. Isbell, County Surveyor, Lenoir, N. Car., March 16, 1953.

EXPLORATION PROJECT CONTRACT
BOWMAN BROTHERS
DOCKET NO. DMEA-2882

EXHIBIT "A"

Description of the Work

Exploration for concentrations of strategic mica is to be accomplished by the work shown, in part, on the attached map entitled "Sketch of Bowman Mine, Caldwell Co., N. C., DMEA-2882," and described below.

1. Construct toolhouse 10 feet by 15 feet in area.

2. Prepare shaft site with bulldozer.

3. Sink not more than 40 feet of inclined shaft on the pegmatite.

4. From the bottom of the shaft, drift not more than 40 feet.

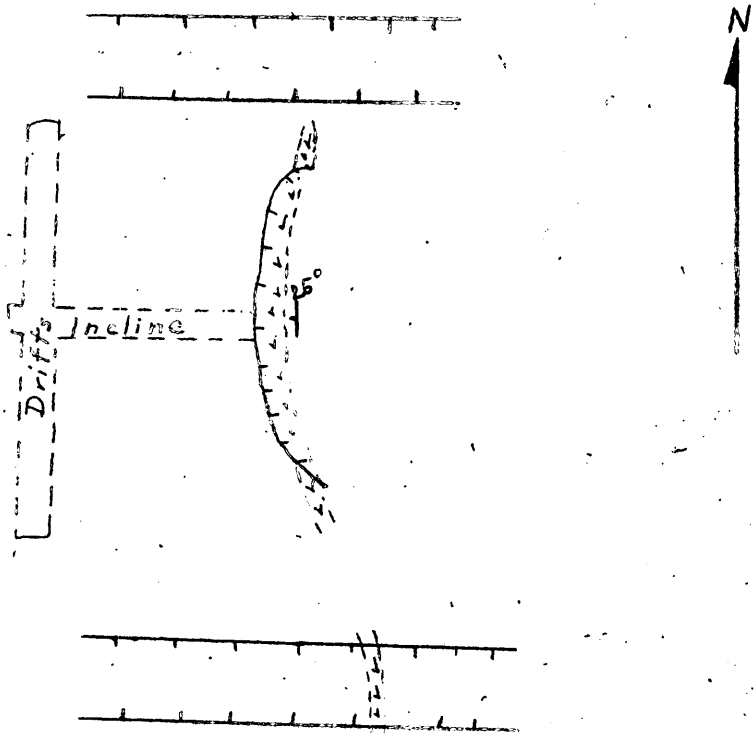
Both shaft and drift shall be 5 feet by 7 feet in cross section and shall be timbered as necessary.

The location, direction, and extent of all work shall have the prior approval of the Government.

Agreed Unit Costs

Construct toolhouse 1/	$200.00	
Bulldozer, 10 hours @ $10.00/hr.	100.00	
Sinking inclined shaft 40 feet, @ $40.00/ft.	1,600.00	
Drifting 40 feet @ $30.00/ft.	1,200.00	
Total Agreed Unit Costs		$3,100.00
Government Participation @ 90%		$2,790.00

1/ The unit is the completed structure.



Sketch of
Bowman Mine
Caldwell Co., N.C.

0 20' 40'
Scale

DMEA-2882 (mica)

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2882

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.
One copy to USBM., TO USGS. AND REGION VII
This document has been recorded as

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

Routing Slip

To:	Code 600, Room 4637	Date	2/11/53
To:	Fairfax	Date	2/12/53
To:	Oper Com	Date	3-6-53
To:	Oper Com	Date	5-29-53
To:	Oper Com	Date	1-11-54
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

File Copy
Surname:
Anderson
Houk
Orpin
Hollund
Chambers
Bowman

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

APR 21 1954

Mr. Clyde N. Bowman
Bowman Brothers
Route 1
Granite Falls, North Carolina

Re: Docket No. DMEA-2582 - Mica
Bowman Mine
Caldwell County, North Carolina
Contract No. Idm-X535

Dear Mr. Bowman:

We are pleased to advise you that your performance of Exploration work under the subject contract has been satisfactory to the Government, and the account relating thereto has been closed. The final audited and settled account shows:

Total claimed for units of work performed	$3,100.00
Total Government contribution at 90 percent	$2,790.00

Your attention is called to the provision of the contract which requires you to keep and preserve your records and accounts of this transaction for a period of three years for possible future reference.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the exploration contract. In the absence of such certification, the Government retains no claim or lien against the property subsequent to the date of this letter.

The Government is grateful for your participation in the exploration program of the Defense Minerals Exploration Administration.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WCAnderson:gad 4/14/54
Copy to: Admr. R. File
Docket File
Field Team, Reg. 7
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.S.

File Copy
Surname:
Anderson
Hyde
Chronlon

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

Project Summary Report

By: Walter C. Anderson March 5, 1954

1. DMEA Docket No. 2882 - Mica
   Contract No. Idm-E535
   Bowman Mine
   Caldwell County, North Carolina

   Operator: Bowman Brothers
   Granite Falls, North Carolina

   Operator's property rights: Owner

2. Contract - dated May 29, 1953.

   Work authorized:

Construct toolhouse	$200.00
Bulldozer, 10 hours @ $10/hr.	100.00
40 feet inclined shaft @ $40/ft.	1,600.00
40 feet drift @ $30/ft.	1,200.00
Total estimated costs	$3,100.00
Government participation @ 90%	$2,790.00

   Amendments: None

   Work completed: Same as authorized.
   Work began on June 22, 1953, and was completed September 9, 1953. Operators final report received 10/15/53.
   Mica produced during operation sold for- $376.40
   Government received 5% royalty - $ 18.82

3. Audit - certificate issued on January 19, 1954 (no exceptions).
   Accepted cost $3,100.00
   Government participation $2,790.00

4. Certification of Discovery - none issued.

5. Comments:

   How conducted
   1. Efficiently and on schedule according to contract.
   2. Operator cooperative at all times.
   Operation - overall progress very good.
   Engineering - reporting well done.

R.C.H.

Geological premises - The premise that a one foot thick mica rich zone on each side of a narrow quartz rib continued proved wrong. With depth the occurrence of mica became too sparse and spotty to initiate a mining operation.

Geological criteria upon which work was based:

1. Well zoned pegmatite, 3-5 feet thick exposed for 50 feet along strike.
2. Narrow central quartz rib bounded on each side by a mica rich zone up to one foot thick.
3. Immediately previous to time of examination, 104 pounds of good quality mica had been produced from a surface pit.

Criteria developed during project: None

Future possibilities: No additional work warranted.

Recommendation: Concur with field team that no certification be made.

WCAnderson:gad 3/5/54

Copy to: Admr. R. File
Docket File
Mr. Houk

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

Project Summary Report

By: Walter C. Anderson March 5, 1954

1. DMEA Docket No. 2882 - Mica
Contract No. Idm-E535
Bowman Mine
Caldwell County, North Carolina

Operator: Bowman Brothers
Granite Falls, North Carolina

Operator's property rights: Owner

2. Contract - dated May 29, 1953.

Work authorized:

Construct toolhouse	$200.00
Bulldozer, 10 hours @ $10/hr.	100.00
40 feet inclined shaft @ $40/ft.	1,600.00
40 feet drift @ $30/ft.	1,200.00
Total estimated costs	$3,100.00
Government participation @ 90%	$2,790.00

Amendments: None

Report of Review

Work completed: Same as authorized.
Work began on June 22, 1953, and was completed September 9, 1953. Operators' final report received 10/15/53.
Mica produced during operation sold for- $376.40
Government received 5% royalty - $ 18.82

3. Audit - ~~certificate~~ issued on January 19, 1954 (no exceptions).
Accepted cost $3,100.00
Government participation $2,790.00

4. Certification of Discovery - none issued.

5. Comments:

How conducted
1. Efficiently and on schedule according to contract.
2. Operator cooperative at all times.
Operation - overall progress very good.
Engineering - reporting well done.

Geological premises - The premise that a one foot thick mica rich zone on each side of a narrow quartz rib continued proved wrong. With depth the occurrence of mica became too sparse and spotty to initiate a mining operation.

Geological criteria upon which work was based:

1. Well zoned pegmatite, 3-5 feet thick exposed for 50 feet along strike.
2. Narrow central quartz rib bounded on each side by a mica rich zone up to one foot thick.
3. Immediately previous to time of examination, 104 pounds of good quality mica had been produced from a surface pit.

Criteria developed during project: None

Future possibilities: No additional work warranted.

Recommendation: Concur with field team that no certification be made.

Mrs. Anderson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

February 4, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2882

Contract Number: Idm-E535

Applicant: Bowman Brothers

Name and Location of Property: Bowman Mine
Caldwell County, North Carolina

Date of Field Team Final Report: January 8, 1954

Date Rec'd by Ceramic & Fertilizer Mats. Branch: February 3, 1954

Field Team Recommendation:

1. No certification of discovery or development.

Comments:

1. All mica recovered was of excellent quality.

2. About 500 pounds of "run-of-mine" mica was obtained, as the results of this exploration project.

3. Expenditures:

Total approved	$3,100.00
Total cost	3,100.00
Government's share	2,790.00
Value	376.40
Government's royalty	18.82

4. Field team stated "Insufficient pegmatite was found by the project to permit a profitable operation. . . "

I concur in the field team's recommendation to deny certification of discovery or development. However, it is suggested the field team remain in close contact with any activity that might occur at this mine to make certain any future production will be repaid to the Government.

W. F. Dietrich

W. F. Dietrich

Anderson

IN REPLY REFER TO:

G-MD-CNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

January 20, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2882 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Clyde H. Bowman and Fred G. Bowman
Name of property: Bowman Mine.
Location of property: Near crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.
Date of field team report: January 3, 1954.
Authorship of field team report: K. H. Teague and L. E. Shirley.
Field team's recommendation:
No certification of discovery should be issued.
Comments:
Because no commercial mica was discovered, no further work is recommended.
ACTION RECOMMENDED:
Follow field team's recommendation.

D. M. Larrabee
D. M. Larrabee
per DMB

FILE COPY
SURNAME:

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

600

Anderson
Houk
Selfridge
Hedges
Thayer

JAN 2 1954

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Subject: Docket No. DMEA-2882 - Mica
Bowman Brothers
Bowman Mine
Caldwell County, North Carolina
Contract No. Idm-E535

Dear Mr. Laurence:

Reference is made to subject docket and contract.

Your memorandum of October 15, 1953, reported that subject project had been completed and Operator's final report received but is being held until the Field Team's final report is prepared. Report of Review in lieu of final audit has been prepared but release is being withheld pending receipt of the final Field Team report.

We will appreciate very much receiving the Field Team's final report as soon as possible.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JLB)

Approved:

J. H. Hedges (JLB)
Member, Bureau of Mines

T. P. Thayer (JLB)
Member, Geological Survey

WCAnderson:gad 1/8/54
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.G. 1-12-54

UNITED STATES
DEPARTMENT OF THE INTERIOR

COPY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D.C.

Room 13, Post Office Bldg.
Knoxville 2, Tenn.

January 8, 1954

Memorandum

To: Operating Committee, D M E A - Washington

From: Field Team, Region 7

Subject: Final Reports, DMEA-2833, Idm-E504, H. R. H., Inc. (mica)
DMEA-2882, Idm-E535, Bowman Bros. (mica)

Enclosed are four copies each of Field Team final reports and Operator's final geologic reports on the subject exploration contracts.

The Field Team agrees with the examiners' conclusions that certification should not be issued for either of these projects.

/s/ Robert A. Laurence, Executive Officer
DMEA Field Team, Region VII

/s/ Wm. A. Beck, for V. J. Lynch
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
1-18-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT
BY
Field Team

DMEA-2882, Idm-E 535, BOWMAN MINE (mica)
Caldwell County, N. C.
Operators: Clyde H. Bowman and Fred G. Bowman, Granite Falls, N. C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey

and

Lawrence E. Shirley, Mining Engineer
U. S. Bureau of Mines

January 3, 1954

Reviewed by
DMEA OPERATING COMMITTEE
1-18-54
(date)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Reviewed by
DMEA OPERATING COMMITTEE
1-18-54
(date)

FINAL REPORT

DMEA-2882, BOWMAN MINE (Mica)
Contract Idm-E 535

The Bowman mica mine is near the crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.

Results obtained from this project failed to show a worthwhile deposit of mica. No additional exploration is warranted, nor should a certification of discovery be issued.

This project began on June 22, 1953 and was completed September 9, 1953. Work accomplished consisted of sinking a 5' x 7' inclined shaft in a due west direction on a - 20° incline to a depth of 40 feet. From a point 20 feet from the portal, laterals were driven from the incline to the north and south. Each lateral was 20 feet in length. In addition to the above openings, the Operator drilled jackhammer holes in the floor of the incline and laterals at 10-foot intervals with negative results.

Openings at this place expose sillimanite-mica schist which has been re-crystalized and coarsened and throughout the openings muscovite up to one-half inch in diameter is abundant. Pegmatite is present in the upper 20 feet of the incline and in the south drift; however, contacts are gradational and numerous inclusions of wall rock are present. In the upper portion of the incline and south drift, the zone containing mica is composed mostly of pegmatite and is from 1 to 5 feet thick. The pegmatite is composed of kaolinized feldspar, quartz, and muscovite. Muscovite concentrations were mostly in association with the more quartzose pegmatite.

All mica recovered was of excellent quality. It was clear, hard, flat, deep ruby colored and splits well. Many of the books exhibited crystal outline. All that was obtained was in small sizes. During the project approximately 500 pounds of "run-of-mine" book mica was obtained. Insufficient pegmatite was found by the project to permit a profitable operation, thus no certification of discovery is warranted.

Expenditures:

(a)	Total approved	$3,100.00
(b)	Total cost of project	3,100.00
(c)	Government's share of cost	2,790.00
(d)	Government's share unexpended -None	
(e)	Value of production	376.40
	Government's royalty	18.82

This operation was conducted in an efficient and satisfactory manner. No equipment was purchased for the project.

January 3, 1954

Kefton H. Teague, Geologist
U. S. Geological Survey

L. E. Shirley, Mining Eng. U. S.B. M.

Z

FILE COPY
SURNAME:

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

OCT 8 1953

Mr. Robert A. Lawrence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Dear Mr. Lawrence:

We wish to call your attention to the following dockets the completion dates of which may require extension by amendment. In those cases where this will be necessary and you approve, will you please furnish us copies of such amendments:

Docket	Contract	Completion date
DMEA-2379	Idm-R364	October 1, 1953
DMEA-2467	Idm-R469	September 22, 1953
DMEA-2579	Idm-R639	October 11, 1953
DMEA-2582	Idm-R535	September 29, 1953

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JB)

Approved:

J. H. Hedges (JB)

Member, Bureau of Mines

T. P. Thayer (JB)

Member, Geological Survey

LCHouk:gad 10/8/53

Copy to: Admr. R. File
Docket File
Mr. Houk
Operating Committee
Mr. Dietrich, Rm. 3526
Mr. Larrabee, Rm. G-232, GSA

P. S. Amendment No. 1, Docket No. DMEA-2379, Contract No. Idm-R364 was received in this office October 7, 1953.

R.C.L. 10-13-53

9B

INTERIM REPORT

DMEA-2882 Idm-E535 (mica) BOWMAN MINE

OPERATOR: Bowman Brothers, Granite Falls, North Carolina.

LOCATION: Near the crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.

This contract has been completed, and consisted of sinking an inclined shaft to 40 feet and two 20 ft. laterals to the north and south respectively from the shaft. The "north" drift was principally in sillimanitic schist with an occasional pegmatite stringer containing mica. The south drift intercepted a 5 ft. quartz-feldspar-mica zone, which produced some mica of excellent quality, but only in small sizes. It was suggested that any additional work by the operators be accomplished from this part of the mine. Kaolinized feldspar and scattered mica was observed at intervals along the left wall and in the present face. The sillimanitic schist is highly weathered and iron stained.

Overall progress on this contract was very good and the operators were cooperative at all times.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

K. H. Teague

K. H. Teague, Geologist
U. S. Geological Survey

September 9, 1953

9B

Operators Final Overall Progress Report
Bowman Bros Mine
Granite Falls N.C.

DMEA-2882
IDM-E 535

Exploration Project Contract. (Dated May 29 1953)
" " Completed Sept 9 1953

Month of June, Preparation of Shaft Site Useing Bulldozer 10 hrs Completed new tool house 10'x15' set up Compressor Built A frame Useing Cable and Block Tracking set for Muck Moveing.

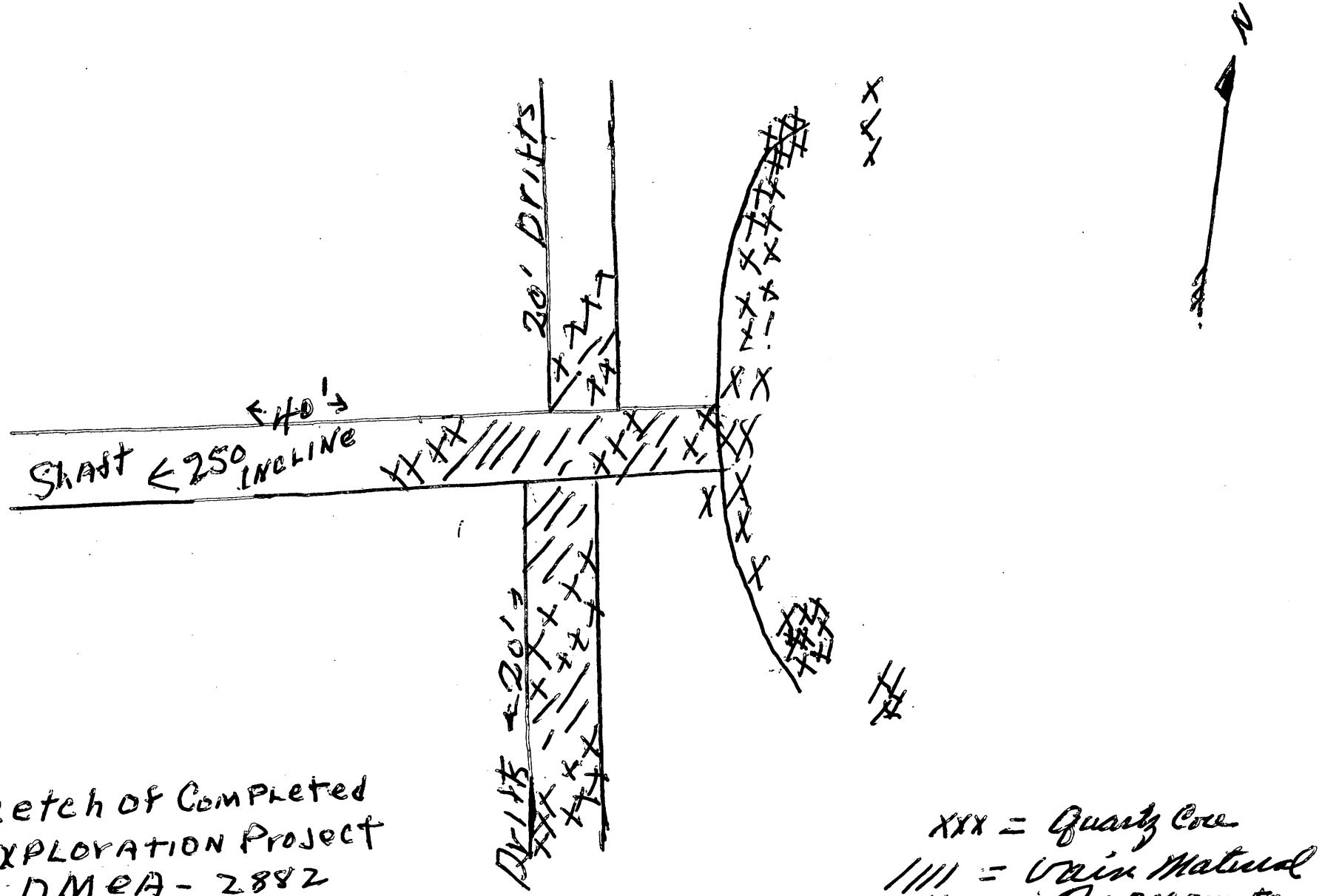
Month of July, Started Shaft following Pegmentite 25° incline. Hired 5 workmen. recovered some Mica from bottom of Shaft. hired 2 workers hand cobb & trim Mica. Alle. + all Changework 20- completed 28 ft incline shaft

Month of Aug. Completed 140 ft incline shaft and 20 ft Drifting shaft. No Mica see in bottom half of incline shaft (Map enclosed) see enough Mica from Drifting shaft to Market full time 33.86 lb Field Team visited twice discussed completion of Contract

Month of Sept.
Completed 20 ft Drifting shaft, thereby completing Contract. Some small Mica showing N W shaft

See MAP INCLOSED

Bowman Bros Mine By Clyde H Bowman



Sketch of Completed
Exploration Project
DMEA - 2882
IDM - E535

BOWMAN Bros MINE
CALDWELL Co GRANITE FALLS N.C.

Operators Final Overall Progress Report
Bowman Bros Mine
Granite Falls N.C.

DMEA-2882
I&M-E 535

Exploration Project Contract. (Dated May 29 1953)
" " Completed Sept 9 1953

Month of June, Preparation of Shaft Site Using Bulldozer 10 hrs Completed new tool house 10'x15' set up Compressor Built A frame Using Cable and Block Jacking ect for Muck Moveing.

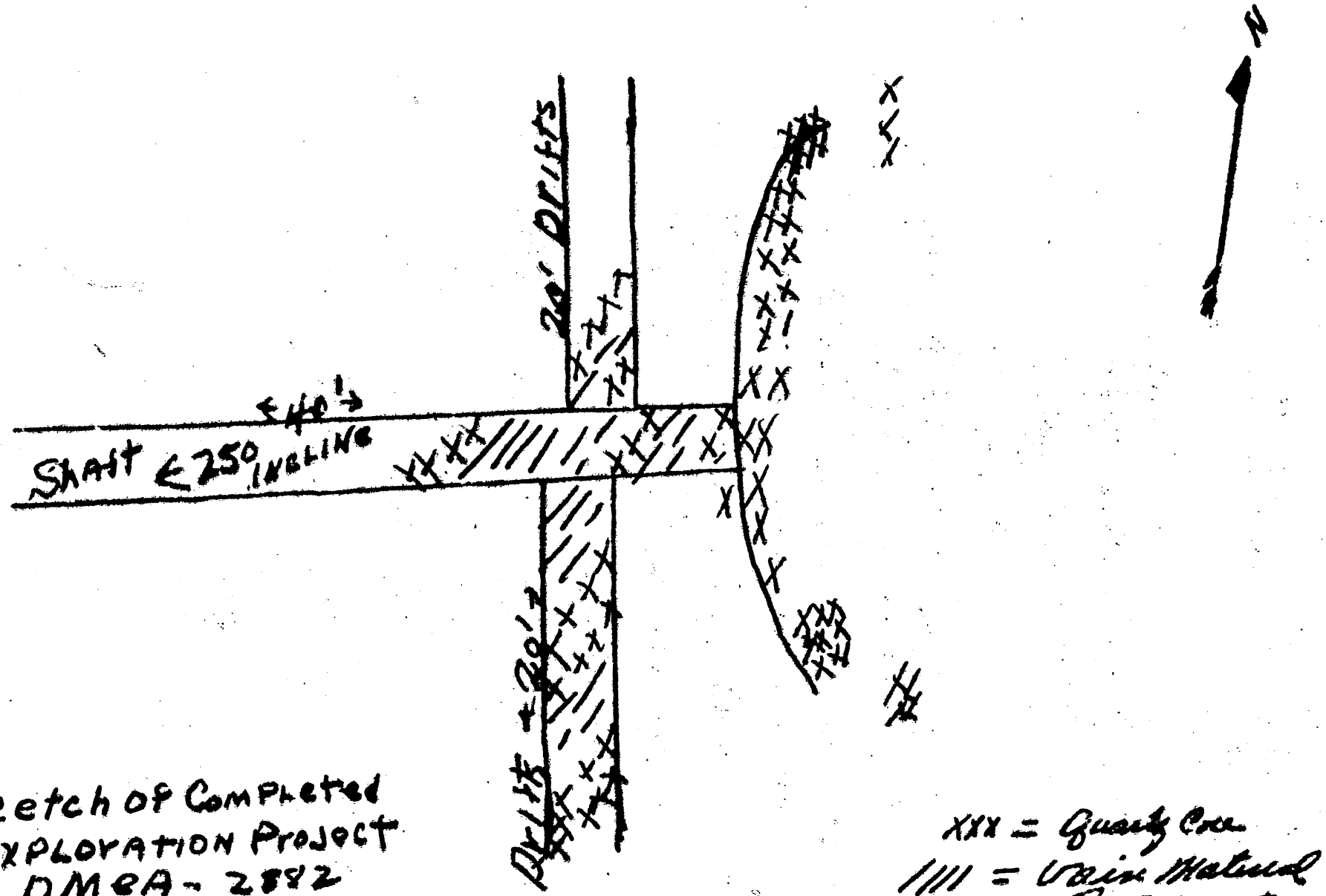
Month of July, Started Shaft following Pegmatite 25° incline. Hired 5 workmen recovered some Mica from bottom of Shaft. Hired 2 workmen hand cobb + trim Mica. Due + full charge work 20- completed 28 ft incline shaft

Month of Aug. Completed 40 ft incline shaft and 20 ft Drifting shaft. No Mica see in bottom half of incline shaft (Map inclosed) see enough Mica from Drifting shaft to Market full Terms 33.86 lb Field Team visited twice discussed completion of contract

Month of Sept. Completed 20 ft Drifting shaft, thereby completing Contract. Some small Mica showing NW shaft

See MAP INCLOSED

Bowman Bros Mine By Clyde H Bowman



Sketch of Completed
Exploration Project
DMEA - 2882
IDM - E 535

BOWMAN Bros MINE
CALDWELL Co GRANITE FALLS N.C.

Operators Final Overall Progress Report
Bowman Bros Mine
Granite Falls N.C.

DMEA-2882
ILM-E 535

Exploration Project Contract (Entered May 29 1953)
" " Completed Sept 9 1953

Month of June, Preparation of Shaft Site Using Bulldozer 10 hrs Completed new tool house 10'x15' set up Compressor Built A frame Using Cable and Block Jacking set for Muck Moving.

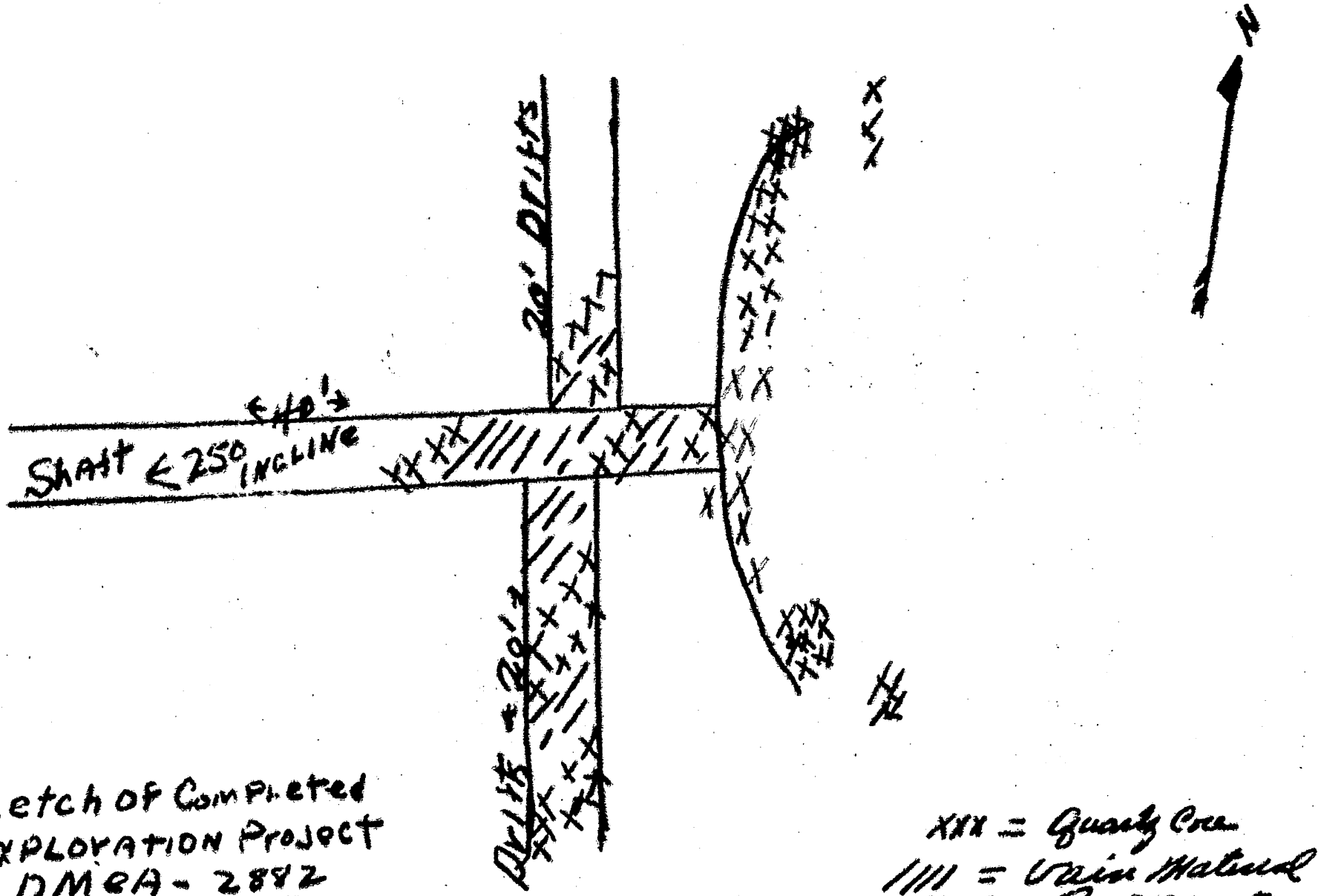
Month of July, Started Shaft following Pegmatite 25° incline. hired 5 workmen. recovered some Mica from bottom of Shaft. hired 2 workers hand cobs + trim Mica. Due Full Charge work 20- completed 28 ft incline shaft

Month of Aug. Completed 40 ft incline shaft and 20 ft Drifting shaft. No Mica see in bottom half of incline shaft (Map enclosed) see enough Mica from Drifting shaft to Market full Turned 3386 lb Field Team visited twice discussed completion of Contract

Month of Sept.
Completed 20 ft Drifting shaft, thereby completing Contract. Some small Mica showing in W shaft

See MAP INCLOSED

Bowman Bros Mine By Clyde H Bowman



Sketch of Completed
Exploration Project
DMEA - 2882
IDM - E535

XXX = Quartz Core
//// = Vein Material
//// = Pegmatite.

BOWMAN Bros MINE
CALDWELL Co GRANITE FALLS N.C.

INTERIM REPORT

DMEA-2882 Idm-E535 (mica) BOWMAN MINE

OPERATOR: Bowman Brothers, Granite Falls, North Carolina

LOCATION: Near the crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina

Inclined shaft sinking has been completed on this contract for a depth of 40 feet on a 20° incline, ~~dipping~~ to the west. The last 21 ft. was driven in country rock, a sillimanite schist, and occasional pegmatite stringers. Most of the mica recovered from sinking came from the first 19 feet of work and it is within this section that additional work will be concentrated. Drifting will begin shortly to the north at a point 12 feet from the portal, in an effort to pick up a mica-bearing zone. Progress on this contract has been good.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

K. H. Teague

K. H. Teague, Geologist
U. S. Geological Survey

August 12, 1953

RECEIVED

INTERIM REPORT

DMEA-2882 Idm-E535 (mica) BOWMAN MINE

OPERATOR: Bowman Brothers, Granite Falls, North Carolina

LOCATION: Near the crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.

Inclined shaft sinking continues on this contract and is now at 25½ feet. A lofting has been erected at the portal and loaded sufficiently with fill to prevent overhang material from falling on the workers. Supporting stulls have been set on 5-8' centers and appears to be satisfactory for supporting the roof adequately.

Material encountered recently is the same as discussed in last report. Mica recovered from this entire operation is reported to be 250 lbs., which sheeted out 10%. Progress on this contract is satisfactory.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

K. H. Teague

K. H. Teague, Geologist
U. S. Geological Survey

July 29, 1953

Department of the Interior
Defense Minerals Administration
RECEIVED
JUL 27 1953

INTERIM REPORT

DMEA-2882 Idm-E535 (mica) BOWMAN MINE

OPERATOR: Bowman Brothers, Granite Falls, North Carolina

LOCATION: Near the crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.

Inclined shaft sinking has begun and is now down to 16 feet. Material encountered consists of a mixture of sillimanitic schist and gradational pegmatite material, the latter consisting of quartz, feldspar and small, hard, flat mica of good ruby color.

Equipment on the job consists of a 105 c.f.m. air compressor and hoisting equipment; a hoisting frame and inclined bucket slides have been constructed. Suggestions made during this visit included the need for construction of powder and detonator magazines. Progress on this project has been good.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

K. H. Teague

K. H. Teague, Geologist
U. S. Geological Survey

July 15, 1953

INTERIM REPORT

DMEA-2882 Idm-E535 (mica) BOWMAN MINE

OPERATOR: Bowman Brothers, Granite Falls, North Carolina

LOCATION: Near the crest of a low ridge about 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.

This project was started on June 22, 1953 and work accomplished consists of preparing the shaft site with bulldozer and construction of a tool house. It was necessary to drill and shoot dangerous over hand material, from the hanging wall, at the shaft site and recent work consists of moving muck from the open cut.

Shaft sinking will begin shortly.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

K. H. Teague

K. H. Teague, Geologist
U. S. Geological Survey

June 30, 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13, POST OFFICE BLDG.
WASHINGTON 25, D.C.
KNOXVILLE 2, TENN.

June 9, 1953

Memorandum

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region 7

Subject: DMEA-2882, Idm-E535. Bowman Brothers. Signed Contract.

Transmitted herewith are three signed copies of the above subject contract. One copy was retained by this office, one by the Operator and one sent to the Finance office.

Robert A. Laurence

Robert A. Laurence

FILE COPY
SURNAME:

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

MAY 29 1953

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Subject: Docket No. DMEA-2882 - M
Bowman Brothers
Bowman Mine
Caldwell County, North Ca

Dear Mr. Laurence:

Please find herewith the original and five copies of a contract covering the subject exploration project which have been signed by the Government with register number and effective date as shown.

If the contract meets with your approval, insert the time for starting and completing the work in Article 3 of the contract and present it to the Operator for its approval and signature. Please explain to the Operator that the contract, when executed, is a firm commitment under the terms of which it is obligated to complete the work outlined at the agreed unit cost. If any part of this contract does not have either your approval or that of the Operator and cannot be amended within your delegated authority, then the original and all copies of the contract are to be returned to this office, together with the proposed changes for consideration.

After execution of the contract, the copies are to be distributed in the usual manner.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Enclosures 6

SAFeitler:gad 5/29/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

S.N. 5-29-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 21 1953

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2882, Mica, Bowman Mine, Caldwell County
North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $3,100.

W. F. Dietrich

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2882, Mica, Bowman Mine, Caldwell County
North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $3,100.

Signed

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2882, Mica, Bowman Mine, Caldwell County
North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $3,100.

Signed

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2882, Mica, Bowman Mine, Caldwell County
North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $3,100.

Signed

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 13, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 14 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2882 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Bowman Brothers, Route 1, Granite Falls, North Carolina.
Name of property: Bowman mine.
Location of property: 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.
Date of field team report: March 31, 1953.
Authorship of field team report: Teague, Beck, and Shirley.
Field team's recommendation:
40'x5'x7' incline
40' drifts
Tool house
Preparation of incline site
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

D. M. Larrabee

IN REPLY REFER TO:

G-MD-CNH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 13, 1953

Memorandum

SUBJECT: OF FIELD TEAM REPORT ON APPLICATION DMEA-2882 (mica)

To: L. V. Roud, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Bowman Brothers, Route 1, Granite Falls, North Carolina.
Name of property: Bowman mine.
Location of property: 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.
Date of field team report: March 31, 1953.
Authorship of field team report: Teague, Beck, and Shirley.
Field team's recommendation:
40'x5'x7' incline
40' drifts
Tool house
Preparation of incline site
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee;jeh
G-4/13/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee G-230

IN REPLY REFER TO:
G-MD-CNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 13, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2882 (mica)

To: L. G. Hook, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Bowman Brothers, Route 1, Granite Falls, North Carolina.
Name of property: Bowman mine.
Location of property: 4.5 miles northeast of Ludley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.
Date of field team report: March 31, 1953.
Authorship of field team report: Teague, Beck, and Shirley.
Field team's recommendation:
40'x5'x7' incline
40' drifts
Tool house
Preparation of incline site
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee;jeh
G-4/13/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee G-230

IN REPLY REFER TO:
G-NC-CNY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 13, 1953

Memorandum

REVIEW OF FIELD REPORT ON APPLICATION DMSA-2882 (mica)

To: L. G. Hoyt, Defense Minerals Exploration Administration
From: D. K. Larrabee, U. S. Geological Survey
Applicant: Bowman Brothers, Route 1, Granite Falls, North Carolina.
Name of property: Bowman Mine.
Location of property: 4.5 miles northeast of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, North Carolina.
Date of field team report: March 31, 1953.
Authorship of field team report: Tengue, Beck, and Shirley.
Field team's recommendation:
40'x5'x7' incline
40' drifts
Tool house
Preparation of incline site
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. K. Larrabee

Larrabee;jeh
G-4/13/53
cc: Director's reading 4212
Branch reading 4212
DMSA 3
Larrabee G-230

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

Room 13, Post Office Building
Knoxville 2, Tennessee

April 1, 1953

Memorandum

To: Operating Committee, D M E A - Washington

From: Field Team, D M E A - Region 7

Subject: Field Team Examination Reports.

Transmitted herewith are four copies of the reports, and six extra copies of the map, for the following examination reports:

DMEA-2882, Bowman Mine (Mica)

DMEA-2892, Horn-Clay Mining Co. (Mica)

DMEA-2909, Old Sheep Mountain Mine, (Mica)

DMEA-2910, Davis Property, (Mica)

DMEA-2917, Allman Cove, (Mica)

The Field Team is in agreement with the recommendations set forth in the above reports.

/s/ Robert A. Laurence
Robert A. Laurence, Executive Officer
DMEA Field Team, Region 7

/s/ Wm. A. Beck,
Wm. A. Beck, for V. J. Lynch
U. S. Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
WASHINGTON
APR 3 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2882, BOWMAN MINE (mica)
Caldwell County, N.C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

Lawrence L. Shirley, Mining Engineer
U. S. Bureau of Mines

March 31, 1953

Reviewed by
DMEA OPERATING COMMITTEE
4-10-53
(date)

Field Examination Report on -

DMEA-2882, BOWMAN MINE, (Mica)

Applicant: Bowman Brothers, c/o Clyde H. Bowman
Route 1, Granite Falls, N. C.

The Bowman Brothers have sold 104 lbs. of mica to the Spruce Pine Mica Depot in recent months. This production has been from a surface pit about 40 feet long and 8 feet deep. Very good quality mica has been obtained. With the proper approach the deposit appears to have excellent possibilities for the production of considerable amounts of strategic mica. It appears to justify exploration assistance.

This deposit was examined on March 26, 1953. Both Clyde H. Bowman and Fred G. Bowman were present on the examination which required two hours.

The Bowman Mine is near the crest of a low ridge about 4.5 miles northwest of Dudley Shoals and 9.5 miles northeast of Granite Falls, Caldwell County, N. C. Access to the mine is good.

Both applicants are competent to conduct the proposed exploration.

There are no surface facilities on the property. To date work has been carried on entirely by hand, supplimented by a pan attached to a farm tractor used in moving muck. The applicants have had part of the surface stripped and two shallow bulldozer trenches cut normal to the trend of the pegmatite. Openings now consist of an open cut about 30 feet long and 8 feet deep inclined slightly to the west. The hanging wall has a slight overhang.

The pegmatite has been exposed along the strike over a length of 50 feet. It ranges between 3 and 5 feet in thickness, strikes N-S and dips 25-40° W. The foliation of the sillimanite schist wall rock strike N. 65° W., dipping 65° SW. It appears that the pegmatite is emplaced in a joint. The pegmatite is well zoned, with a narrow central quartz rib bounded on each side by a mica rich zone up to one foot thick. The feldspathic portion is completely weathered.

The mica is deep ruby in color, hard, flat, and splits well. Some of the books contain a few small scattered biotite spots. In general the books are rather small in size, but books up to 6" across are common and one book 12" across has been recovered. The applicants estimate that they have obtained about 1500 pounds of book mica, resulting in 104 pounds of pattern (7%). Most of that sold to date has ranged in size between No. 3 1/2 to 6.

This deposit was prospected slightly by F. L. German in 1942. His production is not known. The applicants began work in the fall of 1952.

The examiners believe that to best explore this deposit an incline should be sunk following the pegmatite down the dip. After the incline is bottomed, drifts should be driven on the pegmatite.

Estimated Costs:

Preparation of incline site--

Bulldozer, 10 hours @ $10.00 per hour	$ 100.00	
40-foot 5' x 7' incline @ $40/ft.	1600.00	
40 feet of drifts @ $30/ft.	1200.00	
10' x 15' Tool House	200.00	
Estimated Total cost.....		$3,100.00

Estimated time required - 50 shifts

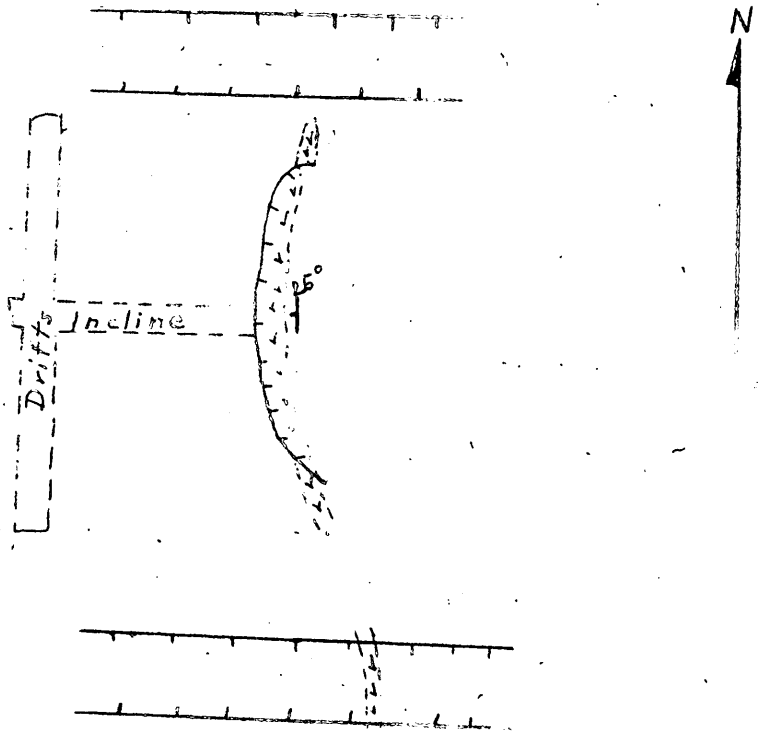
March 31, 1953

K. H. Teague, USGS

L. E. Shirley, USBM

Wm. A. Beck, USBM

zm



Sketch of
Bowman Mine
Caldwell Co., N.C.

0 20' 40'
Scale

DMEA-2882 (mica)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1953

Granite Falls,N.C.
Mar. 19,1953

U.S.Department of the Interior
Defense Minerals Exploration Adm.
Washington 25,D.C.

RE: Docket No. DMEA-2882- Mica
Bowman Mine
Caldwell County,N.C.

Gentlemen:

Enclosed herewith as requested is accurate and true descriptinn and blue print,of the land in question.

Respectfully,
Bowman Brothers.

Clyde H. Bowman

Fred G. Bowman

PHONE 4-9309

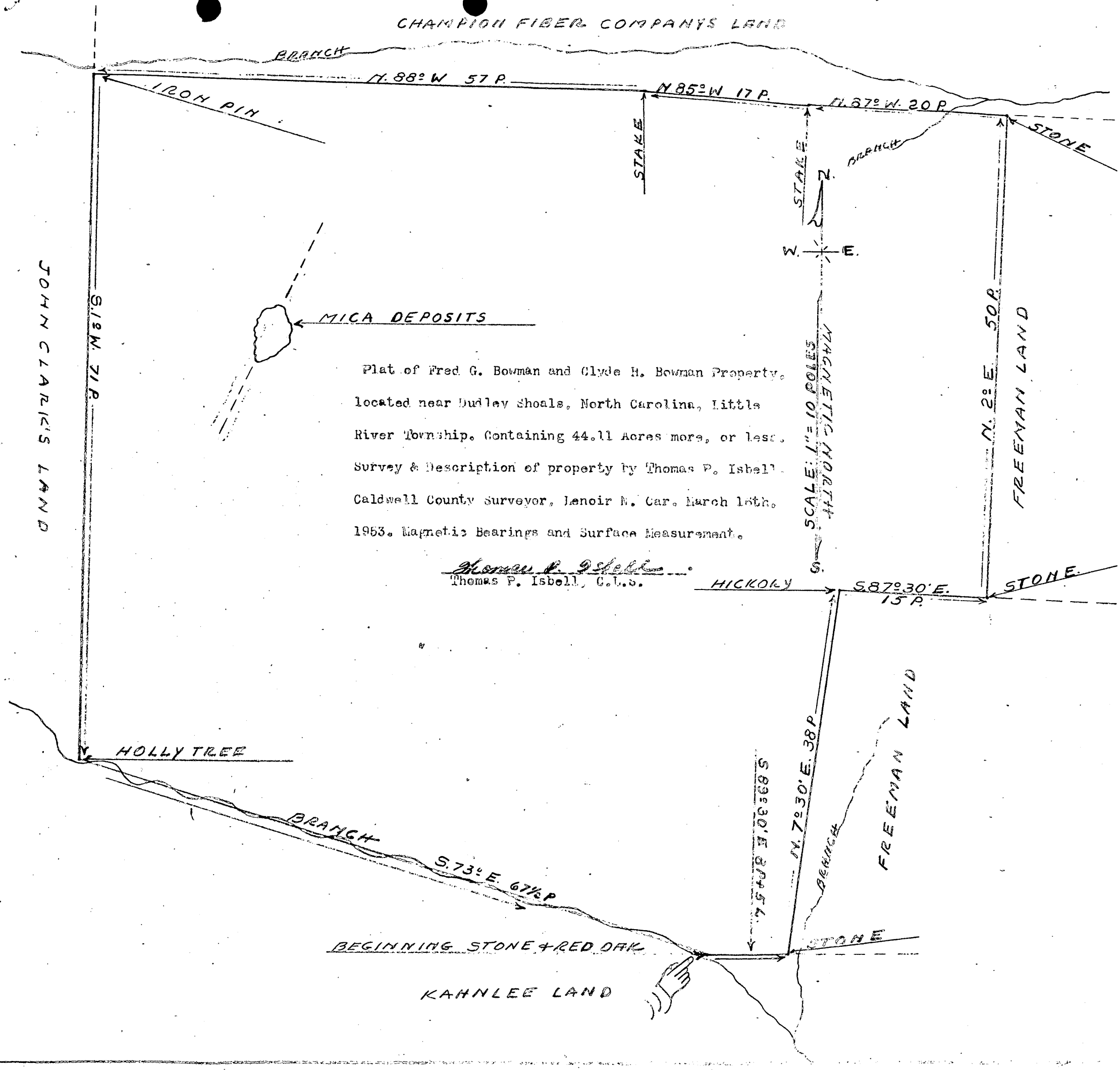
THOMAS P. ISBELL
COUNTY SURVEYOR
204 VANCE ST.
LENOIR, NO. CAR.

March 16th, 1953

New Description of Fred G. Bowman and Clyde H. Bowman Property:

BEGINNING on a stone located on the Northeast side of a branch, formerly a red oak, Bowman's and Kahnlee's present corner, and runs with Bowman's and Kahnlee's line South 89°30' East 8 poles and 5 links to a stone, Bowman's, Kahnlee's and Freeman's corner; thence with Bowman's and Freeman's line North 7°30' East 38 poles to a hickory Bowman's and Freeman's corner; thence still with Ed Freeman's and Bowman's line South 87°30' East 15 poles to a stone, Bowman's and Elbert Freeman's corner in Ed Freeman's line; thence with Bowman's and Elbert Freeman's line North 2° East 50 poles to a stone on the South side of a branch, Bowman's and Freeman's corner in the Champion Fiber Com--pany's line; thence with said company's line North 87° West crossing a branch at 6 poles, in all 20 poles to a stake and pointers, said company's corner; thence still with said company's line North 85° West 17 poles to a black oak and stake, said company's corner; thence still with said line North 88° West 57 poles to an iron pin on the South edge of a branch, said Company's corner, also Bowman's and John Clarke's corner; thence with Clarke's and Bowman's line present bearing South 1° West 71 poles to a holly tree lo--cated on the North bank of a branch, Clarke's and Bowman's corner; thence with center of said branch general bearing South 73° East 67½ poles to the point of beginning, con--taining 44.11 acres more, or less. Magnetic bearings and surface measurement, Survey and description by Thomas P. Isbell, County Surveyor, Lenoir, N. Car. March 16th, 1953.

Near Dudley Shoals, Little River Twp.,
Caldwell Co., N.C.



Plat of Fred G. Bowman and Clyde H. Bowman Property, located near Dudley Shoals, North Carolina, Little River Township. Containing 44.11 Acres more, or less. Survey & Description of property by Thomas P. Isbell, Caldwell County Surveyor, Lenoir N. Car. March 16th, 1953. Magnetic Bearings and Surface Measurement.

Thomas P. Isbell

Thomas P. Isbell, C.L.S.

FILE COPY
SURNAME:

Feitler
Hawk
Lemmon
Olson
Selfridge

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

630

MAR 6 1953

Mr. Clyde R. Bowman
Bowman Brothers
Route 1
Granite Falls, North Carolina

RE: Docket No. [illegible]-232 - Mica
Bowman Mine
Caldwell County, North Carolina

Dear Mr. Bowman:

Your application for assistance in exploring the subject mine has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert L. Laurence, Executive Officer, GSA Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you may give the members of the field team in the examination will be appreciated.

Enclosed herewith is the executed copy of the deed submitted with the application. The metes and bounds description of the land is apparently incorrectly stated as it does not describe a closed traverse. Please have this defect corrected and submit a copy of the corrected deed. It is not necessary to send the original.

Sincerely yours,

C. O. Mittendorf (for) J.H. 3/6/53

Administrator

enclosure

AFeitler:gad 3/5/53
Copy to: Admr. R. Fils
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

600

Feitler
Hugh
Selfridge

MAR 6 1953

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Subject: Docket No. DMEA-2982 - Mica
Bowman Brothers
Bowman Mine
Caldwell County, North Carolina

Dear Mr. Laurence:

Please arrange for a field examination of the subject property and submit a report with your recommendations for the disposition of this application.

Two copies each of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your information.

Sincerely yours,

George C. Selfridge (HB)

Chairman, Operating Committee

Approved:

C. H. Johnson (HB)

Member, Bureau of Mines

[illegible] (HB)

Member, Geological Survey

S.H.
3/6/53

Enclosures 4

SAFeitler:gad 3/5/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

COPY

THIS INDENTURE, Made this eighteenth day of August in the year of our Lord one thousand nine hundred and fifty one BETWEEN Stewart C. Whitener and Joan Whitener, his wife parties of the first part, and Fred G. Bowman and Clyde H. Bowman, Granite Falls, North Carolina Parties of the second part, WITNESSETH, That the said parties of the first part, for and in consideration of the sum of One and more Dollars, to them in hand paid by the said parties of the second part, the receipt whereof is hereby confessed and acknowledged, do by these presents grant, bargain, sell, remise, release, alien and confirm unto the said parties of the second part, and their heirs and assigns, FOREVER, all that certain piece or parcell of land situate and being in the Township of Little River County of Caldwell and State of North Carolina, and described as follows, to-wit: Beginning on a red oak on the North side of a small branch, R. B. Smith's corner, and runs East about 7 poles to a stone, John Mays' corner; thence, North 30° East, 38 poles to a hickory, Burton Hollar's corner; thence, South 87° East, 15 poles to a stone; thence, West about 55 poles to a stone on the bank of branch; thence, South 87° West about 20 poles to the fork of the branch; thence, South 78° West about 72 poles to a stake in the Reid line about 2 poles North of said branch; thence, South 3° West about 70 poles to a holly bush on the bank of the branch in R. B. Smith's line; thence, about East with the branch to the beginning, containing fifty (50) acres, more or less.

The above described lands were conveyed to grantor by Turner Kees and Willie N. Kees, his wife, Book 275 of Deeds, on page 74.

copy of part of executed lease returned to applic. 3/5/53

Mr. Feitler

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

February 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2882, Bowman Brothers' Project, Caldwell County, North Carolina

No data are available in this office on subject property. It is suggested that the field team visit this property when they are in that vicinity to ascertain if an exploration program is justified.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1953

February 16, 1953

Memorandum

REVIEW OF APPLICATION DMEA-2882 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: Bowman Brothers, Route 1, Granite Falls, North Carolina.
Name of property: Bowman Mine.
Location of property: 8 miles east of Granite Falls in the Dudley Shoals section of Caldwell County, North Carolina.
Estimated cost of project: $3,936.00.
Summary of applicant's proposal:
Extend tunnel along the direction of the strike and/or sink inclined shaft, depending upon advice of field team.
Sources of information on applicant's property:
No information on this property; general geologic information on area is found in:
Hash, L. J., and Van Horn, E. C., 1951, Sillimanite deposits in North Carolina: North Carolina Dept. of Conservation and Development, Bull. 61, pp. 12-16.
Comments: Applicant claims that this prospect produced 75 pounds of full-trimmed strategic mica, of which 58.74 pounds was sold to Emergency Procurement Service. The invoice is said to be attached but is not present with copy of application reviewed.
RECOMMENDATION: Locate invoice and verify sale of strategic mica from this property; if favorable, then field examination.

R. E. Van Alstine

R. E. Van Alstine

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 10 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. dmea 2882
Metal or Mineral
Date Received 2-10-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Bowman Brothers R-1 Granite Falls, N.C.

Clyde H. Bowman R-1 Granite Falls, N.C (partner)
Fred G. Bowman R-1 Granite Falls, N.C. (partner)

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

Statement of ownership inclosed

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

Owners in partnership

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(a) State the mineral or minerals for which you [illegible] to explore Mica

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 60 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? YES

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Feb 9, 1953

Bowman Bros
(Applicant)

By Clyde H Bowman
Fred G. Bowman

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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Bowman Mine:

Bowman Brothers
R-1
Granite Falls,N.C.

Answers for MF-103

3.(a) Certification of ownership attached.
(b) Bowman Mine
(c) Owners In partnership

4.(a) During the early 1940,s a small exploration operation was carried out on this property.The party who owned the property at that time states that alarge quantity of high grade block Mica was found. During the last 3 months we have followed the strike (N-10 E) with a tunnel fromthe old shaft.From this tunnel (4ft.wide,8 ft.long and 8 ft. deep see map.)we have produced 75 lbs of full trimmed Mica,having sold 58.74 lbs.(invoice attached).This has been a small hand operation by,We Bowman Brothers,sole owners and operators.The site of this operation is readily accessible by dry weather road.

(b) Current production,75 lbs full trimmed Mica of strategic grade. Other ores include Sillimanitic schist in the country rock.

(c) This property is located 8 miles East (10 N) from Granite Falls in the Dudley Shoals section of Caldwell County,N.C. Further Geologic and Mineralization information in Bulletin Number 61, "Sillimanite Deposits in N.C." by Hash and Van Horn,edited by Kefton H.Teague.(1951) (Inclosed). This property is in the Sillimanite belt in N.C. The Strike on our property Strikes N-10 E with a dip S-65 W showing a Pegmatite type vein consisting of Quartz,Granular Quartz,Feldspar and Mica of strategic grade.We wish to explore further for Mica at this site.(Sketch inclosed)

(d) Readily accessible by dry weather road,shipping and supply points nearby.

(e) Items under E readily available,water within 300 yards, electric power 1000 yards.

5.(a) Mica

(b) We propose to extend tunnel along the direction of the strike and/or sink shaft on the incline of the dip. (sketch inclosed)
(c) Expect to start work within 60 days and finish within 6 Mo's.

(d) We have partisipated in the Mica Procurement Program under E.P.S. no.4-491 A to the extent of one sale of 58.74 lbs.(invoice incl.) We have studdied the Mica Procurement Program from several viewpoints to get as much overall information as possible.We have visited the Mica Procurement Depot at Spruce Pine,N.C.several times as wellas Mica trimming houses and other installations to gain as much information as possible about Mica and other minerals.We have also visited mining operations at every opportunity and feel that,having observed these operations,with the experience we have had in construction work, grading, and use of explosives we could carry on this exploration operation.We also plan to hire an experienced Mica miner.

Bowman Mine.

Bowman Brothers
R-1
Granite Falls, N.C.

6.(a) Preliminary bulldozer work -30 hrs @$10.00 per hr.--------$300.00

(b) Common labor
.90¢ per hr. 40hour week, 16 weeks ---------- $576.00
Supervisor
$1.50 per hr. 40 hour week 16 weeks ---------- $960.00
Mining Engineer
$2.50 Per hr. 8 shifts (64 hrs) ---------- $160.00

(c) Operating materials and supplies

2 cases explosives, caps and fuse -----	$48.00	
4 picks @ $3.50 ----	$14.00	
4 shovels @$2.50 -----	$10.00	
Fuel for operating tractor 160 gal.	$48.00	
	----------	$120.00

(d) Operating Equipment

Rental on 1 air compressor complete with hammer and drills.--- 8 weeks @ $10.00 per day	$400.00	
1 tractor with automatic scoop and dump attachment 8 weeks @$4.00 per day.--	$160.00	
1 power hoist complete with cable 8 weeks @$4.00 per day --	$160.00	
	----------	$720.00

(e) None

(f) New Buildings and installations.

1 new building 14 ft by 20ft. storage for equipment and anticipated Mica.---	$200.00	
1 water pump and pipe ---	$200.00	
Electric power installation ---	$400.00	
	----------	$800.00

(g) Miscellaneous .

Employers liability Insurance
4 persons 6 months @$50.00 each ------- $200.00

(h) Contingencies ---------- $100.00

Total $3936.00

Bowman Mine

Bowman Brothers
R1
Granite Falls,N.C.

Statement in Summary:

We wish to follow this strike with depth depending on the extent of contact and the advise of your field men.There is an abundance of outcroppings of Mica bearing quartz and "vein material" in this section for several miles radius.Severalo old hand operated mines in this section have produced a quanity of high grade Mica. However, none of these mines including ours has ever been explored deeper than 10 ft.We seem to be the only people in this section interested in operating or wishing to participate in the program

We would appreciate your thorough consideration of this application.If there is need for moreinformation,please let us know.

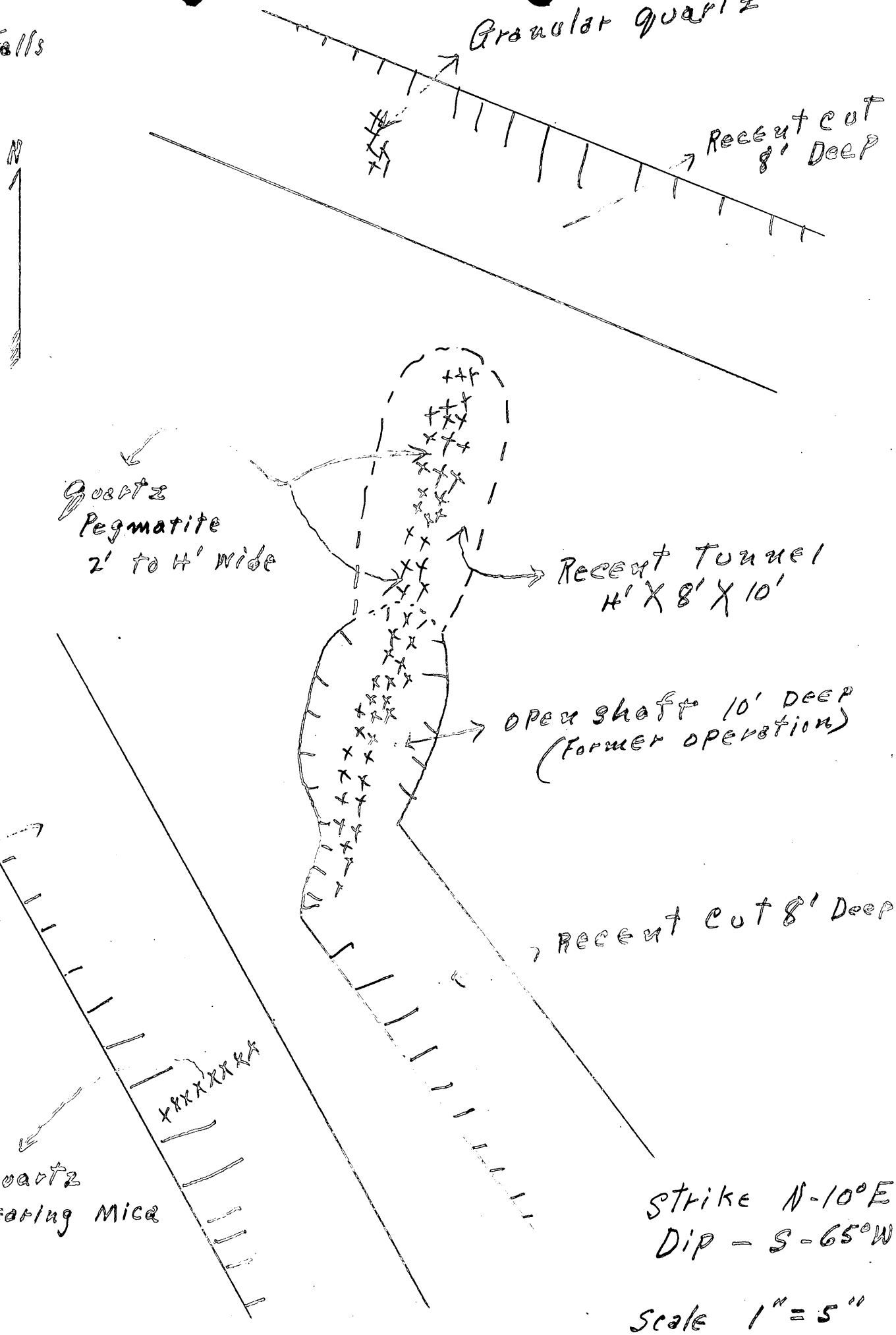
Thanks,

Bowman Brothers

Bowman Bro's
R-1
Granite Falls
N.C.

Bowman Mine

dmcu 2880



Strike N-10°E
Dip - S-65°W

Scale 1" = 5"

February 11, 1953

Mr. Clyde H. Bowman
Route 1
Granite Falls, North Carolina

Subject: DMEA-2882
Re: Exploration Assistance
Bowman Mine

My dear Mr. Bowman:

The receipt of your application dated February 9, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2882 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-2882 in any future correspondence relating to your application.

Sincerely yours,

R. E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

25451

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 01 1953

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. dmea 2882
Metal or Mineral
Date Received 2-10-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Bowman Brothers R-1 Granite Falls, N.C.

Clyde H. Bowman R-1 Granite Falls, N.C.
Fred G. Bowman R1 Granite Falls, N.C.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

Statement of ownership inclosed

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

Owners in partnership

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) [redacted]e the mineral or minerals for which you wis[redacted] explore Mica

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 60 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? YES

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Feb 9, 1953

Bowman Bros
(Applicant)

By Clyde H Bowman
Fred G. Bowman

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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Bowman Mine:

Bowman Brothers
R-1
Granite Falls,N.C.

Answers for MF-103

3.(a) Certification of ownership attached.
(b) Bowman Mine
(c) Owners In partnership

4.(a) During the early 1940,s a small exploration operation was carried out on this property.The party who owned the property at that time states that alarge quantity of high grade block Mica was fOund. During the last 3 months we have followed the strike (N-10 E) with a tunnel fromthe old shaft.From this tunnel (4ft.wide,8 ft.long and 8 ft. deep see map.)we have produced 75 lbs of full trimmed Mica,having sold 58.74 lbs.(invoice attached).This has been a small hand operation by,We Bowman Brothers,sole owners and operators.The site of this operation is readily accessible by dry weather road.

(b) Current production,75 lbs full trimmed Mica of strategic grade. Other ores include Sillimanitic schist in the country rock.

(c) This property is located 8 miles East (10 N) from Granite Falls in the Dudley Shoals section of Caldwell County,N.C. Further Geologic and Mineralization information in Bulletin Number 61, "Sillimanite Deposits in N.C." by Hash and Van Horn,edited by Kefton H.Teague.(1951) (Inclosed). This property is in the Sillimanite belt in N.C. The Strike on our property Strikes N-10 E with a dip S-65 W showing a Pegmatite type vein consisting of Quartz,Granular Quartz,Feldspar and Mica of strategic grade.We wish to explore further for Mica at this site.(Sketch inclosed)

(d) Readily accessible by dry weather road,shipping and supply points nearby.

(e) Items under E readily available,water within 300 yards, electric power 1000 yards.

5.(a) Mica

(b) We propose to extend tunnel along the direction of the strike and/or sink shaft on the incline of the dip. (sketch inclosed)
(c) Expect to start work within 60 days and finish within 6 Mo's.

(d) We have participated in the Mica Procurement Program under E.P.S. no.4-491 A to the extent of one sale of 58.74 lbs.(invoice incl.) We have studdied the Mica Procurement Program from several viewpoints to get as much overall information as possible.We have visited the Mica Procurement Depot at Spruce Pine,N.C.several times as wellas Mica trimming houses and other installations to gain as much information as possible about Mica and other minerals.We have also visited mining operations at every opportunity and feel that,having observed these operations,with the experience we have had in construction work, grading, and use of explosives we could carry on this exploration operation.We also plan to hire an experienced Mica miner.

Bowman Mine.

Bowman Brothers
R-1
Granite Falls,N.C.

6.(a) Preliminary bulldozer work -30 hrs @$10.00 per hr.--------$300.00

(b) Common labor
.90¢ per hr. 40hour week,16 weeks ---------- $576.00
Supervisor
$1.50 per hr.40 hour week 16 weeks ---------- $960.00
Mining Engineer
$2.50 Per hr. 8 shifts (64 hrs) ---------- $160.00

(c) Operating materials and supplies

2 cases explosives,caps and fuse -----	$48.00	
4 picks @ $3.50 ----	$14.00	
4 shovels @$2.50 -----	$10.00	
Fuel for operating tractor 160 gal.	$48.00	
	----------	$120.00

(d) Operating Equipment

Rental on 1 air compressor complete with hammer and drills.--- 8 weeks @ $10.00 per day	$400.00	
1 tractor with automatic scoop and dump attachment 8 weeks @$4.00 per day.--	$160.00	
1 power hoist complete with cable 8 weeks @$4.00 per day --	$160.00	
	----------	$720.00

(e) None

(f) New Buildings and installations.

1 new building 14 ft by 20ft.storage for equipment and anticipated Mica.---	$200.00	
1 water pump and pipe ---	$200.00	
Electric power installation ---	$400.00	
	----------	$800.00

(g) Miscellaneous .

Employers liability Insurance
4 persons 6 months @$50.00 each ------- $200.00

(h) Contingencies
--------- $100.00

Total $3936.00

Bowman Mine

Bowman Brothers
R-1
Granite Falls,N.C.

Statement In Summary:

We wish to follow this strike with depth depending on the extent of contact and the advise of your field men.There is an abundance ofoutcroppings of Mica bearing quartz and "vein material" in this section for several miles radius.Several old hand operated mines in this section have produced a quanity of high grade Mica. However, none of these mines including ours has ever been explored deeper than 10 ft.We seem to be the only people in this section interested in operating or wishing to participate in the program.

We would appreciate your thorough consideration of this application.If there is need for more information please let us know.

Thanks.

Bowman Brothers

dmea 2882

GENERAL SERVICES ADMINISTRATION
Mica Purchase Depot - [illegible]

WARRANTY, ACCEPTANCE AND INVOICE

DATE 1-20-53

ACCEPTANCE NUMBER [illegible]-39

ISSUED UNDER CERTIFICATE OF AUTHORIZATION NUMBER [illegible]-4-491 A

LOT NUMBER [illegible]-839

RECEIPT AND WEIGHT TICKET NUMBER

WARRANTY

The undersigned, a participant in the Mica Program, warrants that the mica included in this lot of mica is of domestic origin, is not material owned previously by the Government, was not purchased from others prior to December 14, 1951, and is owned by the person or firm whose name appears below (herein referred to as "Seller").

NAME AND ADDRESS OF SELLER *(Type or print)*	SELLER OR PERSON AUTHORIZED TO SIGN THIS WARRANTY FOR SELLER
NAME Lowman Brothers	SIGNATURE [illegible]
STREET ADDRESS Route 1	NAME *(Type or print)* Clyde L. Lowman
CITY, ZONE AND STATE Granite Falls, N. C.	TITLE *(Type or print)* Partner

EVALUATION AND SETTLEMENT DATA

PROGRAM A - BLOCK OR FILM MICA

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER				.08	$70.00	6.20
GRADES NO. 4 AND 5				9.76	$40.00	390.40
GRADES NO. 5½ AND 6				32.88	$15.00	492.75
STAINED						
GRADES NO. 3 AND LARGER		$12.00		.01	$18.00	0.09
GRADES NO. 4 AND 5		$ 5.00		9.86	$ 8.00	49.30
GRADES NO. 5½ AND 6		$ 3.00			$ 5.00	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		$ 8.00			$13.00	
GRADES NO. 4 AND 5		$ 4.00		2.60	$ 6.00	17.60
GRADES NO. 5½ AND 6		$ 2.00			$ 3.00	
TOTALS						
LOT TOTALS				53.74		957.93

PROGRAM B - HAND-COBBED MICA

TOTALS					$ 0.30	

ACCEPTANCE

Subject to the terms and conditions of the Mica Regulation dated March 12, 1952 (17 F.R. 2279), establishing the Government's Purchase Programs for Domestic Mica, the Government accepts the number of pounds of mica (as hereinabove identified), delivered by the Seller to the Government for which payment in the total amount set forth hereinabove will be made by the Government.

GENERAL SERVICES ADMINISTRATION

BY *(Type name)*	SIGNATURE	TITLE
Carl Luchman	[illegible]	Lead Buyer

INVOICE

TO General Services Administration, Region IV

FOR Mica delivered as indicated above — $ 957.93

I certify that the above bill is correct and just and that payment therefor has not been received.

SELLER *(Type name)*	DATE
Lowman Brothers (Lowman Bros)	1-20-53

BY *(Signature)*	NAME AND TITLE *(Type)*
[illegible]	Clyde L. Lowman, Partner

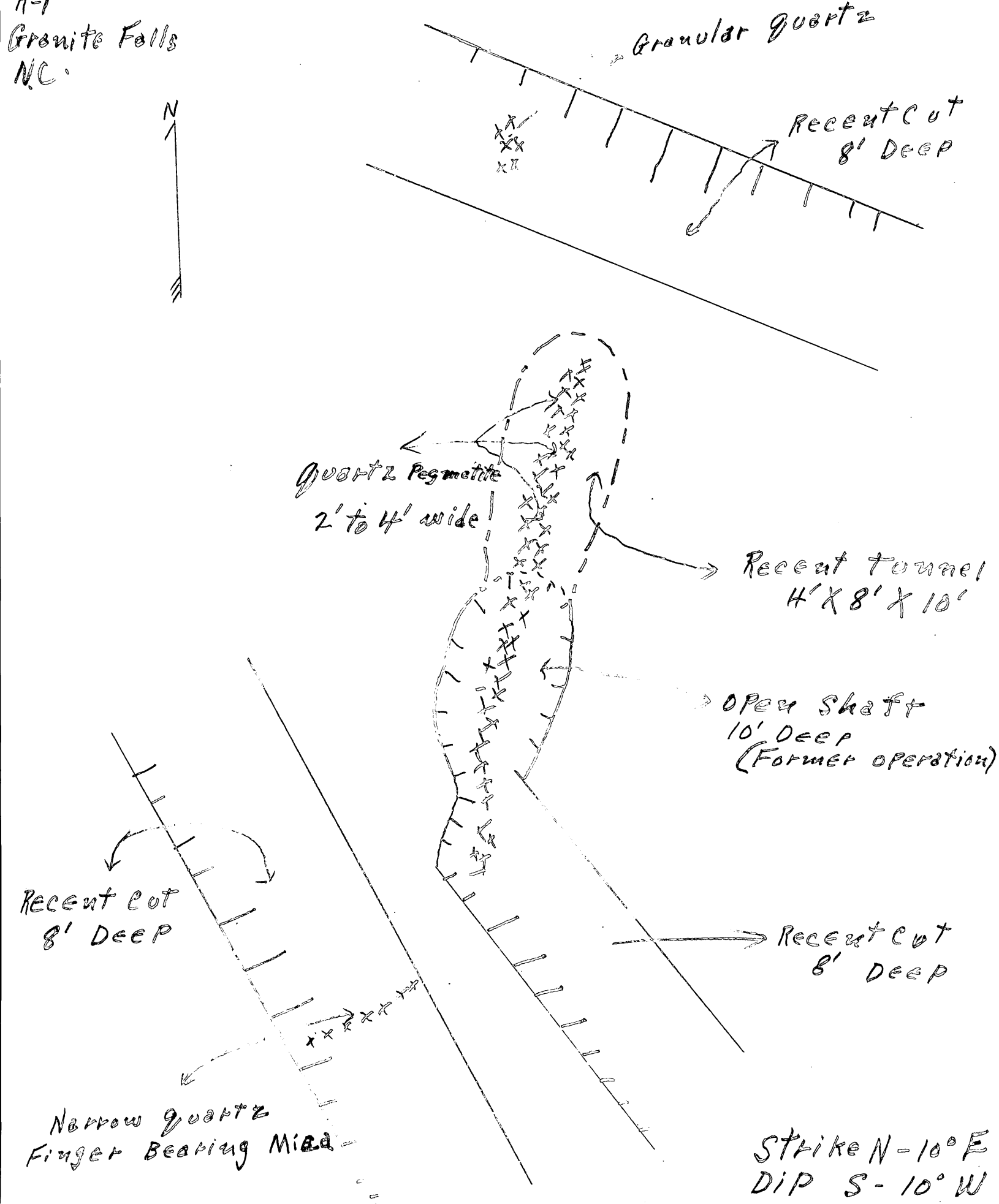
GSA-WASH DC 53-3094

GSA FORM 1013
September 1952

Bowman Bro's
R-1
Granite Falls
N.C.

Bowman Mine

dmu 2882



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

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

DMCA 2882

DMCA-2882