DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4882

Application
- [ ] Denied
- [x] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

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

November 15, 1957

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Applications from Jay Joseph Miller, et al(mica)

Enclosed are 3 copies of each of the following applications:

Garrett Mine, Macon County, N. C.
Tilley Mine, Jackson County, N. C.
Revere Mine, Jackson County, N.C.
Roaring Hole Mine, Jackson County, N.C.

Each is accompanied by a copy of the deed, and a copy of the Applicant's transmittal letter. We are keeping the fourth copy of each application for our use. No maps or sketches were submitted with the application.

It seems obvious, from a study of these applications, that the Applicants have no plan for exploration, but are asking for Government assistance to do the preliminary work normally done by an Applicant before an application is submitted. It is also obvious that the land descriptions, both in the deed and in item 1a of the applications, would not be satisfactory for purposes of a contract.

It would be a waste of time to have the Field Examiners visit these mines if, to quote one application, "old workings are full of water-requires cleaning out of old workings to put in operation. This cleaning would be necessary before other plans could be made." We suggest that the Applicants be requested to do the necessary preliminary work before we schedule a field examination.

Robert A. Laurence
Executive Officer, DMEA-Region V

W. J. Lynch, Member
Bureau of Mines

MARCELLUS BUCHANAN III
ATTORNEY AT LAW
SYLVA, NORTH CAROLINA

November 14, 1957

Mr. Robert A. Lawrence, Executive Officer
Defense Mineral Exploration Administration
Room 13, P. O. Building
Knoxville, Tennessee

Re: Jay Joseph Miller, et al
Partners, Application of
Bowers Mine

Dear Mr. Lawrence:

I am enclosing herewith, in quadruplicate, your form ME-103, together with accompanying documents. It is respectfully requested that any correspondence relative to this application be directed through my office.

The Bowers Mine is located on a large boundary of land on which the applicants own the mineral interests and all mining privileges.

Applicants stand ready and willing to furnish any additional information required in connection with this application. It was felt that because of the nature of the description of this Mine that no survey would be necessary, certainly before its inspection by your Department.

Thanking you for your attention to this matter, I remain,

Very truly yours,

Marcellus Buchanan III

MB:tl
encl.

RECEIVED
NOV 15 1957
U. S. Geological Survey
Geologic Division

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Mr. Jay Joseph Miller
General Delivery
Sylva, North Carolina

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4882

Date Received: 11/18/57

Government Participation %:

Region: V

Division Code: 600

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [ ]
- Partnership [X]
- Other (Specify) [ ]

State in which firm is organized: Pa.

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Jay Joseph Miller	Bedford, Pa.	Partner
Samuel Fickes	Bedford, Pa.	Partner
M. V. Brant	Shellsburg, Pa.	Partner
Walter H. Reese	Bedford, Pa.	Partner
Joseph Sanbor	Bedford, Pa.	Partner
Charles Lindeman	Rt.#3, Myersdale, Pa.	Partner
Simon Smith	Bedford, Pa.	Partner

Mineral(s) for which you wish to explore: Mica

Estimated Cost of Project: $ 5700.00

LOCATION OF PROPERTY

Name	County	State
Bowers Mine on Pressley Creek	Jackson	N. C.

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

11 November 1957
Dated

RECEIVED
NOV 15 1957
U. S. Geological Survey
Contract Section

Jay Joseph Miller
BY *(Signature)*

Partner
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be perfomed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

I[illegible] GOVT. PRINT. OFF., WASH., D.C. 25960

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 18 1957
DATE | INITIAL | CODE

EXHIBIT "A"

I. APPLICANTS PROPERTY RIGHTS:

(a) Bowers Mine located in Cullowhee Township, Jackson County, State of North Carolina on the waters of Pressley Creek running from the center of present old shaft in all directions so as to include exactly five (5) acres in a perfect circle.

(b) Only known as Bowers Mine.

(c) Partnership owns the mineral interest and all minning rights and privileges in the five acres hereinabove described.

(d) There are no liens, mortgages or other encumbrances on the land hereinabove described except for a purchase money deed of trust given by applicants to the seller.

II. PHYSICAL DESCRIPTION:

(a) Portions of the property have been worked for more than fifty (50) years, but with no regularity.

(b) None

(c) Unknown

(d) Mica reserves

(e) The property is mountainous - mica is in rock veins (quartz and Jeldspar), and vein is approximately 8 - 9 feet in width.

(f) We have sampled the mine carefully by walking down incline into tunnel.

(g) Information on file with Bureau of Mines, Washington, D. C.

III. ACCESSIBILITY OF PROJECT:

(a) Take Pressley Creek Road from Cullowhee, and turn right off Pressley Creek Road at house of O'Dell Pressley and follow gravelled road to dump at lower edge of mine.

(b) Sylva, North Carolina - 11 miles from site of mine. Both rail and truck shipping available. Mine supplies available in Sylva.

IV. (a) Old workings are full of water- requires cleaning out of old workings to put in operation. This cleaning would be necessary before other plans could be made - will then have to be re-timbered before operated.

(b) No access roads will be required.

(c) Work would be started within 30 days and will require approximately four months.

V. Jay Joseph Miller, who will be General Manager, has been mining for 35 years and has full knowledge of mining problems and procedures and practices.

VI. ESTIMATE OF COSTS

(a) No independent contracts will be let.

(b) Supervision: 1 man, $1.25 per hour - $50.00 per week - Total $800.00.

Labor: 5 laborers, $1.00 per hour - $200.00 per week - Total $3200.00.

(c) Dynamite, fuses, caps, steel, picks, and shovels Total $1000.00.

(d) Operating equipment to be purchased on installment plan - will consist of a compressor, pump, jack hammer, hoist and engine.

(e) Will have to construct tool house and mica house and dynamite house. Total cost of construction $300.00.

(f) See (e) above.

(g) Reserve fund of $400.00 for cost of repairs and maintenance.

VII. (a) Yes.

(b) By providing money and equipment.

NORTH CAROLINA
JACKSON COUNTY

THIS DEED, made, executed and delivered this the 8th day of November, 1957, by and between THE RUBIN MICA COMPANY, a corporation duly chartered, organized and existing under and by virtue of the laws of the StateofNorth Carolina, party of the first part and JAY J. MILLER and wife, OLIVE M. MILLER; SAMUEL FICKES and wife, VERA G. FICKES; SIMON E. SMITH; DR. M. V. BRANT and wife, IDA C. BRANT; WALTER H. REESE and wife, VIRGINIA REESE; JOSEPH SAMBOR; all of Bedford County, Pennsylvania, CHARLES LINDEMAN and wife, MARTHA LINDEMAN of Summerset County, Pennsylvania, parties of the second part;

W I T N E S S E T H:

THAT said party of the first part, for and in consideration of the sum of Ten ($10.00) Dollars to it in hand paid by said parties of the second part, the receipt of which is hereby acknowledged, has bargained and sold and by these presents does bargain, sell and convey, into seven equal parts, unto the said parties of the second part, and their successors and assigns, as follows: One part to Jay J. Miller and wife, Olive M. Miller; one part to Samuel Fickes and wife, Vera G. Fickes; one part to Simon E. Smith; one part to Walter H. Reese and wife, Virginia Reese; one part to Joseph Sambor; all of Bedford County, Pennsylvania, and one part to Charles Lindeman and wife, Martha Lindeman of Summerset County, Pennsylvania; the following described tracts or parcels of land located in Savannah and Cullowhee Townships, Jackson County, North Carolina, and Millshoal Township, Macon County, North Carolina, and more particularly described as follows:

> Being the lands described in a deed from E. P. Stillwell, Trustee, to The Rubin Mica Company, a North Carolina Corporation, recorded in the Office of the Register of Deeds of Jackson County, in Book 12 at Page 533 and recorded in the Office of the Register of Deeds for Macon County, in Book T-4 at Page 310.
>
> FIRST TRACT: All the mica interest, with full mining rights and privileges in and to that tract of land,

situate lying and being on the waters of Cullowhee Creek in Jackson County, and beginning at a hickory, the Southwest corner of State Grant #833, granted to Andrew Presley, and runs thence North with the line of said State Grant #844 sixty poles to a small hickory in said line; thence South 75 East 40 poles to a small hickory near the fence; thence a Southwest direction to the beginning, including what is known as Rock Cut Mine.

SECOND TRACT: Being all the rights, titles, interests, lands, tenements and hereditaments, claims, privileges and easements formerly owned by F. F. Palms, deceased, and described in a deed from H. G. Robertson and James K. Watkins, Commissioners, to R. U. Garrett, situate, lying and being on the waters of Cullowhee Creek and Savannah Creek in the County of Jackson and in Millshoal Township, Macon County, North Carolina, said deed dated the 18th day of May, 1928, it being the intention herein to convey all the right, title and interest in all tracts and parcels of land in Macon and Jackson Counties, North Carolina, of which Francis F. Palms died seized and possessed.

THIRD TRACT: All the rights, titles and interests of the heirs at law of F. F. Palms conveyed by H. G. Robertson and James K. Watkins, Commissioners, to R. U. Garrett, by deed dated the 18th day of May, 1928, as described in a deed from W. A. H. Schreiber to F. F. Palms, Trustee, dated July 2nd. 1891, recorded in Jackson County in Book "P" page 175 and in a deed from H. H. Bennett and wife, to F. F. Palms, Trustee, dated June 13, 1892, and recorded in Jackson County in Book "Q" page 121 and in another deed from W. A. H. Schreiber to F. F. Palms, Trustee, dated 19th day of Sept., 1891, and recorded in Book "P" page 316 of Jackson County and in a certain other deed from W. A. H. Schreiber to F. F. Palms, Trustee, dated 13 day of July, 1891, and recorded in Book"P" page 177 and also in a certain deed from W. H. Hasket and wife to F. F. Palms, Trustee, dated 1 day of May, 1893, and recorded in Book "CC" page 95 of the records of deeds for Macon County, and being also fully described in a deed from J. E. McLain, Sheriff of Jackson County, to F. F. Palms, dated 1 day of July, 1895, and recorded in the Office of the Register of Deeds for Jackson County, in Book "T" page 281 and 282 and in a deed of sme date from C. T. Roans, Sheriff, of Deeds for Macon County, in Book of deeds "EE" pages 56, 57 and 58, to all of which instruments reference is hereby made for more full particulars.

TO HAVE AND TO HOLD unto them the said parties of the second part and their successors and assigns, the aforesaid lands and premises and all privileges and appurtenances thereunto belonging absolutely in fee simple, forever.

And the said party of the first part for itself and its successors and assigns, covenants to and with said parties of the second part their successors and assigns, that it is seized

of said lands and premises in fee and has the right to convey the same in fee simple; that the same are free from encumbrances and that it will warrant and defend the said title to the same against the claims of all persons whomsoever.

IN TESTIMONY WHEREOF, the said part of the first part has caused this deed to be signed in its corporate name by its _____ President, and attested by its _____ Secretary and sealed with its common corporate seal, all by authority of its Board of Directors first duly given, on this the day and year first above written.

THE RUBIN MICA COMPANY

BY _____ (SEAL)
President

ATTEST:

_____
Secretary

STATE OF FLORIDA
COUNTY OF _____

THIS is to certify that on the _____day of _____, 1957, before me, _____, a Notary Public in and for the County of _____, State of Florida, personally came _____with whom I am personally acquainted, who being by me duly sworn, says that _____is _____President, and that he, the said _____, is the _____Secretary of THE RUBIN MICA CORPORATION, the Corporation described in and which executed this foregoing instrument; that he knows the common seal of the said Corporation; that the seal affixed to the foregoing instrument is said common seal, and that the name of the Corporation was subscribed thereto by said _____President, and that said _____President and said _____Secretary subscribed their names thereto, and said common seal was affixed, all by order of the Board of Directors of said Corporation, and said instrument is the act and deed of the said Corporation.

WITNESS my hand and Notarial Seal, this the _____day of _____, 1957.

_____
Notary Public

My Commission Expires:

_____

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/9	Houk	600
"	Johnson	110
"	Mittendorf	100
		220

600

JUN 5 1958

Mr. R. U. Garrett, Jr.
Shawnee Mica Mines
Box 631
Sylva, North Carolina

Re: Docket No. DMEA-4882-Mica
Jay Joseph Miller, et al.
Bowers Mine
Jackson County, North Carolina

Dear Mr. Garrett:

This is with reference to our letters of March 31 and May 6, 1958, requesting additional information needed to process the subject application.

As we have not received any reply to our letters, we are considering your application as having been withdrawn and are placing it in our inactive files.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

LGHouk:gad 6/6/58
Copy to: Admr. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

600

June 6, 1958

Memorandum

To: Mr. Allen S. Dakan, Director
Operations Control and Statistics Division

From: Lawrence G. Houk, Director
Division of Nonmetallic Minerals

Subject: Withdrawal of application - Docket No. DMEA-4882-Mica
Jay Joseph Miller, et al.
Bowers Mine
Jackson County, North Carolina

We are notifying the Applicants that since the data needed to continue processing the subject application had not been received by June 6, 1958, we are considering the matter closed.

The subject application may be withdrawn from the pending category and placed in the inactive file.

LGHouk:gad 6/6/58
Copy to: Admr. R. File
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/6	Anderson	600
5/6	Work	600
"	Johnson	110
"	Mittendorf	100
5/7	C	220
		600

600

Mr. R. U. Garrett, Jr.
Shawnee Mica Mines
Box 631
Sylva, North Carolina

MAY 6 1958

Re: Docket No. DMEA-4882-Mica
Jay Joseph Miller, et al.
Bowers Mine
Jackson County, North Carolina

Dear Mr. Garrett:

Reference is made to our letter of March 31, 1958, a copy of which is enclosed, requesting additional information concerning the subject application, for exploration assistance.

We wish to cooperate with you fully in allowing ample time to supply the requested information; however, we cannot indefinitely postpone action on an application. Therefore, if we do not receive the requested information within 30 days from the date of this letter, we will assume that you are no longer interested in proceeding with your application, and we will consider it as having been withdrawn.

Sincerely yours,

S

Lawrence G. Houk, Director
Division of Nonmetallic Minerals

Enclosure

WCAnderson:rsi 5/6/58
Copy to: Admr. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

File Copy
DMEA
RECEIVED MAR 31 1958
CODE
3/31

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

March 31, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4882 (mica)

Applicant: Jay Joseph Miller, et al.

Name and Location of Property: Bowers Mine, Jackson County, N. C.

Date of Field Team Report: 3/17/58

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 3/24/58

Field Team Recommendation: Recommend approval of a short term contract

Comments:

1. Applicant requested assistance in exploration wrok on an old mine.

2. Field Examiners state there is large-size, good quality muscovite visible in old workings.

3. Field Team recommends exploration on possible downward extensions of successfully mined mica rich rolls and discovery of new ones.

Recommendation:

I concur with the recommendation of the field team that exploration assistance be granted.

W. F. Dietrich

W. F. Dietrich

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/27	Anderson	600
3/31	Houk	600
"	Johnson	110
"	Whitehead	100
		220

600

MAR 31 1958

Mr. Jay Joseph Miller
c/o Mr. Marcellus Buchanan III
Attorney at Law
Sylva, North Carolina

Re: Docket No. DMEA-4,882-Mica
Jay Joseph Miller, et al.
Bowers Mine
Jackson County, North Carolina

Dear Mr. Miller:

On December 6, 1957, we advised you that we will defer the requirement that you provide an acceptable land description until after the field examination is made.

The field examination has been made and in order to continue with the processing of your application we require the following:

1. Instead of the circular land description of a five acre tract submitted with your application, for an exploration project we require at least a five acre tract bounded by straight lines that form a quadrilateral or polygon.

2. A metes and bounds description of the property, that is, the bearing and lengths of each side of the property.

3. The relationship of the proposed work to the boundary lines of the subordinated land and a tie-in to the nearest identifiable corner.

4. The acreage of the land you own from which the subordinated tract is carved.

As soon as we receive the above requested information we will continue the processing of your application.

Sincerely yours,

Lawrence G. Houk, Director
Division of Nonmetallic Minerals

WCAnderson:i 3/27/58
Copy to: Admr. R. File
Field Team, Region V
Mr. Kilsgaard, 5222

Mr. Dietrich, 3061
Mr. Houk

8623

IN REPLY REFER TO:

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

RECEIVED MAR 26 1958

DATE	INITIALS	CODE
3/26	C	220
3/26	Hod	600

March 25, 1958
Re: DMEA 4882
J. J. Miller
Bowers Mine
Jackson County, N. C.
Rec'd Est. $7,855.25 - Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicant requested assistance in reopening an old mine. The proposed work program was indefinite and no description of the pegmatite was given.

The examiners found a large zoned pegmatite with a corrugated hanging wall. The corrugations more or less follow the dip of the pegmatite and mica "makes" in the crest of the corrugations. At least 5 of the rolls have been mined and 2 others are indicated.

The examiners recommend a 50-foot winze to be sunk down the crest of the most persistent corrugation and 150 feet of drifts and crosscuts at the bottom to explore the possible downward extensions of the other rolls on both foot and hanging walls.

I concur with the recommendation..

N. E. Nelson

N. E. Nelson

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

March 17, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 20 1958

DATE	INITIALS	CODE
3/20	C	220
3/24	JB	130
3/25	C	220

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Field Team Examination Report - DMEA-4882 (mica)
Bowers Mine, Jackson County, N.C.

Transmitted are three copies of the subject report and eight extra copies of the maps.

The Field Team concurs with the Field Examiners in recommending approval of a short form contract as set forth in the report.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA
Region V

V. J. Lynch
V. J. Lynch, Member
Bureau of Mines

Field referral sent Dec. 6, 1957.

Z

Reviewed by
DMEA OPERATING COMMITTEE
3-24-58
(date)

On-Site Exam Rpt

DEPARTMENT OF INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
RECEIVED MAR 20 1958

DATE	INITIALS	CODE
3/24	JHB	130
		220

FIELD EXAMINATION
REGION V

DMEA-4882 (mica) BOWERS MINE
Jackson County, N. C.

By

F. G. Lesure, Geologist
Geological Survey

and

S. A. Feitler, Mining Engineer
Bureau of Mines

March 17, 1958

Reviewed by
DMEA OPERATIONS DIVISION
3-24-58
(date)

FIELD EXAMINATION REPORT
DMEA

DMEA-4882 (mica) BOWERS MINE
Jackson County, N. C.

Applicant: Jay Joseph Miller, et al. General Delivery, Sylva, N.C.

SUMMARY

Mining at the Bowers Mine was carried on intermittently until April 1945 in two large stopes. The last work was done in the South Stope where three mica-rich rolls are present along the hanging wall of a zoned pegmatite. Examination indicates the probable extension of these three rolls and the possible presence of at least two more. Mica from the working face in the hanging wall zone and from muck in the bottom of the stope is of good quality. It is recommended that exploration assistance be granted in the form of a 50-foot inclined shaft, 100 feet of drift on the hanging wall and 50 feet of cross cut and drift on the footwall of the zoned pegmatite.

INTRODUCTION

Location: The Bowers Mine is at an elevation of 3200 feet on the steep eastern slope of Savannah Ridge, 3 1/2 miles S41°W of Cullowhee, Jackson County, North Carolina (Cullowhee, N.C., Quad. TVA, 1:24,000). The mine is about 2000 feet west of Pressley Creek and can be reached by 4-wheel drive vehicles on a steep mine road leading off the gravel Pressley Creek road from the O'Dell Pressley house.

Examination: The first examination of the Bowers mine was made on January 22 and lasted about 3 hours. Because of water in the lower workings a second examination lasting about one hour was made February 6 and a third lasting about 2 hours on March 6. Mr. R. U. Garrett, Jr., and Mr. J. B. Dalton, both of Sylva, accompanied the examiners on all the examinations.

History: The Bowers pegmatite was discovered in 1899, and the

mine was operated intermittently until 1945.(Larrabee and Heinrich in Olson, J.C. 1946, Mica Deposits of the Franklin-Sylva District, North Carolina, Bull.49, N.C. Dept. Conserv. Devel.,p-32). Complete history of the mine up to October 1944 is given in the Olson report and by D. M. Larrabee (Bowers Mine, unpublished manuscript, U.S. Geol. Survey, Jan. 16, 1944) and E. W. Heinrich (Bowers Mine, Supplementary Reports, unpublished manuscripts, U.S. Geol. Survey, June 1944 and October 1944). The large (south) stope southwest of the workings mapped in 1944 by Lemke and Heinrich was mapped during the examinations (see attached map). This stope is more than 50 feet high, 35 to 50 feet long and 7 to 13 feet wide. Parts of three mica shoots have been mined in this stope but no production figures are available. At the time work was stopped, mining was being done on a series of benches along the southern edge of the stope. The winze mentioned by Heinrich (October, 1944) was apparently sunk and used to remove muck from this stope. According to Mr. Garrett all mining ceased in April 1945, because of a series of mine accidents. No work has been done under the present mica-buying program.

A toolhouse, dynamite and exploder magazines, hoist and compressor are on the property. All equipment is on rental-purchse basis. In estimating costs, the usual rental rates are used. These are considered fair and represent only 50 to 60 percent of the rental-purchase payments made by the Operator. The Applicants have dewatered the mine and rebuilt the chute through the winze into the south stope. Electricity is available along

Pressley Creek to the east. Water for drilling is present at the mine now, but Mr. Garrett reports that water had to be hauled from a stream below the mine area during dry summer months in 1944.

Although the application implies that J. J. Miller will direct the mining, all work is now being directed by R. U. Garrett, Jr., and J. B. Dalton, both of whom have had extensive experience in mica mining.

GEOLOGY

The areal geology and description of the Bowers pegmatite are given by Larrabee and Heinrich (Olson, 1946, P 32). The country rock is a banded garnetiferous quartz-biotite gneiss that strikes generally NE and dips steeply NW. This rock has been injected by an irregularly shaped pipe-like body of pegmatite that strikes NW and dips steeply SW. Rolls in the hanging wall of the pegmatite plunge steeply west and southwest.

The pegmatite contains a quartz core associated with minor quantities of microcline. This core is continuous along the footwall of the south stope from the 2960 level to the 2920 level. The core is overlain by a medium-to coarse-grained plagioclase-quartz-muscovite hanging wall zone. Accessory minerals include garnet, pyrite, pyrrhotite and biotite. This zone ranges in thickness from 5 to 10 feet.

Muscovite occurs in pipe-like bodies in the rolls along the hanging wall contact with the gneiss. The axes of the rolls mined in the south stope have been plotted on the map. One of these rolls

was mined continuously down the plunge from the winze at the top of the stope. This roll plunges 65° S65°W. Another roll just north of this plunges 45°S80°W. A third was being benched at the upper part of the stope at the south end of the 2960 level. This roll plunges steeply about S70°W. The presence of two other rolls to the south is suggested by warping in the hanging wall contact at the south end of the open cut. These rolls also plunge steeply southwest. These rolls are about 5' x 10' in cross section and have been mined 50 feet or more down the plunge. No data concerning the percent of muscovite in the rolls are available.

Muscovite in the hanging wall zone and from muck piles at the bottom of the south stope is of good quality, better than that described by Larabee and Heinrich (Olson, 1946, p 32). Books up to 6" x 12" have been found but much of the mica ranges from 3" x 5" to 6" x 8". The mica is clear, free splitting and fairly flat. Some is ruled, warped and "A".

Both pegmatite and country rock are hard and unweathered in the underground workings of the mine.

RECOMMENDATIONS

We recommend that exploration assistance be granted. Mining at the Bowers has proved the presence of 5 or more mica-rich roll-like structures. The presence of other rolls south of the present workings is suggested by warping of the hanging wall in the open cut. The footwall of the pegmatite, however, has not been explored along the south stope and presents a potential target. We recom-

mend a program consisting of a fifty-foot inclined shaft near or on the main roll in the south stope, 100 feet of drift to intersect the downward extension of the other rolls along the hanging wall at about the 2870 level and from this drift 50 feet of crosscutting to and drifting along the footwall.

ESTIMATED COSTS

Sink a 50-foot 5' x 7' foot, two-compartment inclined shaft from the present bottom of the South Stope.

Labor:

1- Foreman-miner	$14/shift	
1 - Hoistman	12/ "	
1 - Laborer	8/ "	
Per 8 hr. shift....	$34/ "	
Total labor - 35 shifts @ $34.....		$1,190.00
1.6 feet/shift = 32 shifts @ $34 - -		1,088.00

Equipment (rental)*

1 - Compressor @ $150/Mo.	$262.50	
1 - Hoist @ $50/Mo.	87.50	
1 - Rock drill w/hose @ $40/Mo.	70.00	
1 - Sump pump @ $40/Mo.	70.00	
Total equipment rental.....		490.00
$250/mo - - ...		400.00

* see page 2, paragraph 1.

Supplies, Tax & Insurance:

Gasoline and oil	112.50	
Explosives	200.00	
Drill steel	90.00	
Timber, 1 1/2" M b.f.	97.50	
Small tools & Misc	100.00	
Sales tax	19.00	
Soc.Sec & Insurance	143.00	
Total supplies.....		762.00

Total estimated cost of shaft..... $2,442.00

Est. cost/foot shaft $48.84 $45.00 $2,250.00

Drift and/or crosscut 150 feet, 5' x 7' in cross section from or near the bottom of the shaft (75 shifts).

Labor:

1 - Foreman-miner ..	$14/	shift
1 - Hoistman	12/	"
1 - Laborer	8/	"
Per 8 hr. shift....	$34/	"

Total labor - 75 shifts @ $34.... 2,550.00

Equipment-rental* 2.2 ft/shift = 70 shifts 2,380.00

1 - Compressor @ $150/Mo.	$562.50
1 - Hoist @ $50/Mo.	187.50
1 - Rock drill w/hose @ $40/Mo.	150.00
1 - Jackleg @ $25/Mo.	93.75
1 - Sump pump @ $40/Mo.	150.00
Total equipment rental	1,143.75

250/mo 875.00

* See page 2, paragraph 1.

Supplies, tax & Insurance

Gasoline & Oil	337.50	
Explosives	525.00	
Drill steel	210.00	
Small tools & Misc.	300.00	
Sales Tax	41.00	
Soc. Sec. & Ins.	306.00	
Total supplies, etc.		1,719.50

Total estimated cost of drift $5,413.25 4974.50

Estimated cost/foot of drift $36.09. use $34/foot

Summary of costs

Sinking 50 feet	$2,442.00
Drifting 150 feet	5,413.25
Total estimated cost of project	7,855.25

S. A. Feitler,
Bureau of Mines,

F. G. Lesure
Geologist, USGS

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/5	Anderson	600
12/6	Houk	600
12/6	Selfridge	130
12/4	Johnson	110
	Mittendorf	100
12/9	gb	220
		600
12/4	Nelson	130
12/6	Yoggs	(130)

600

DEC 6 1957

Mr. Marcellus Buchanan III
Attorney at Law
Sylva, North Carolina

Re: Docket No. DMEA-4882-Mica
Jay Joseph Miller, et al.
Bowers Mine
Jackson County, North Carolina

Dear Mr. Buchanan:

Your clients' application for assistance in exploring the subject property has been reviewed by the Division of Nonmetallic Minerals of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region V, Room 13, Post Office Building, Knoxville 2, Tennessee, for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance you may give the members of the Field Team during the examination will be appreciated.

Please be advised that the DMEA does not participate in projects involving unwatering and cleaning out of old workings for the purpose of assessing a mineral deposit or determining a suitable project.

The circular land description of the five acre tract is not an acceptable description for a project. The property must be bounded by straight lines forming a quadrilateral or polygon. We will defer the requirement that you provide an acceptable land description until after the field examination is made.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WCAnderson:rsi 12/5/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/5	Anderson	600
12/6	Houk	600
12/6	[illegible]	130
12/6	Yopes	130
		~~130~~
12/6	Johnson	110
"	Stutendorf	100
12/9	[illegible]	220
	[illegible]	600

600

DEC 6 1957

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

Re: Docket No. DMEA-4882-Mica
Jay Joseph Miller, et al.
Bowers Mine
Jackson County, North Carolina

Dear Mr. Laurence:

Please review the subject application and arrange for a field examination if you deem it necessary.

Copies of memoranda dated November 20 and 22, 1957, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

If a project is recommended, please have the Applicants get the required land description and tie from an established corner.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SLB)

Approved:

P. F. Yopes (SLB)
Member, Bureau of Mines

N. E. Nelson (SLB)
Member, Geological Survey

Enclosures 5

WCAnderson:rsi 12/5/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

November 22, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4882 (mica)

Applicants: Jay Joseph Miller, et al.

Name and Location of Property: Bowers Mine, Jackson County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 11/19/57

Comments:

1. It appears that the applicants are asking for assistance to do preliminary work in reopening an old mine.

2. No definite plan of exploration has been submitted.

Recommendation:

It is recommended that the applicants be requested to do the necessary preliminary work before a field examination is scheduled.

W. F. Dietrich

W. F. Dietrich

ORIGINAL FILE COPY
DMEA
RECEIVED NOV 25 1957

DATE	INITIALS	COPY
11/25	gf	220
11/25	wea	600

IN REPLY REFER TO:

FILE COPY
DMEA
RECEIVED NOV 21 1957

DATE	INITIALS	CODE
11/21	gb	220
11/21	vra	600

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

November 20, 1957

Re: DMEA 4882
J. J. Miller et al
Bowers Mine
Jackson County, N. C.
$5,700.00 - Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

As observed by the Field Team, the applicants request assistance in reopening an old mine, apparently without having done any preparatory work and without definite plans for exploration.

As recommended by the Field Team, the applicants should be requested to do the preliminary work before a field examination is made.

N. E. Nelson

N. E. Nelson

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

EXTRA COPY
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DATE | INITIALS | CODE

November 15, 1957

DMEA- 4882

Mr. Marcellus Buchanan, III
Attorney at Law
P. O. Box 503
Sylva, North Carolina

Dear Mr. Buchanan:

The four applications which you submitted on behalf of Jay Joseph Miller, et al., have been forwarded to our Washington office for processing, in accordance with established procedure.

Mr. Miller will be notified when additional information is required.

Sincerely yours,

Robert A. Laurence
Executive Officer
DMEA Field Team, Region V

RAL/mg

cc - Mr. Jay Joseph Miller, Sylva, N. C. - General Delivery
Operating Committee (3)
Mr. V. J. Lynch
File

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

November 19, 1957

Mr. Jay Joseph Miller
General Delivery
Sylva, North Carolina

Subject: DMEA-4882

Dear Mr. Miller:

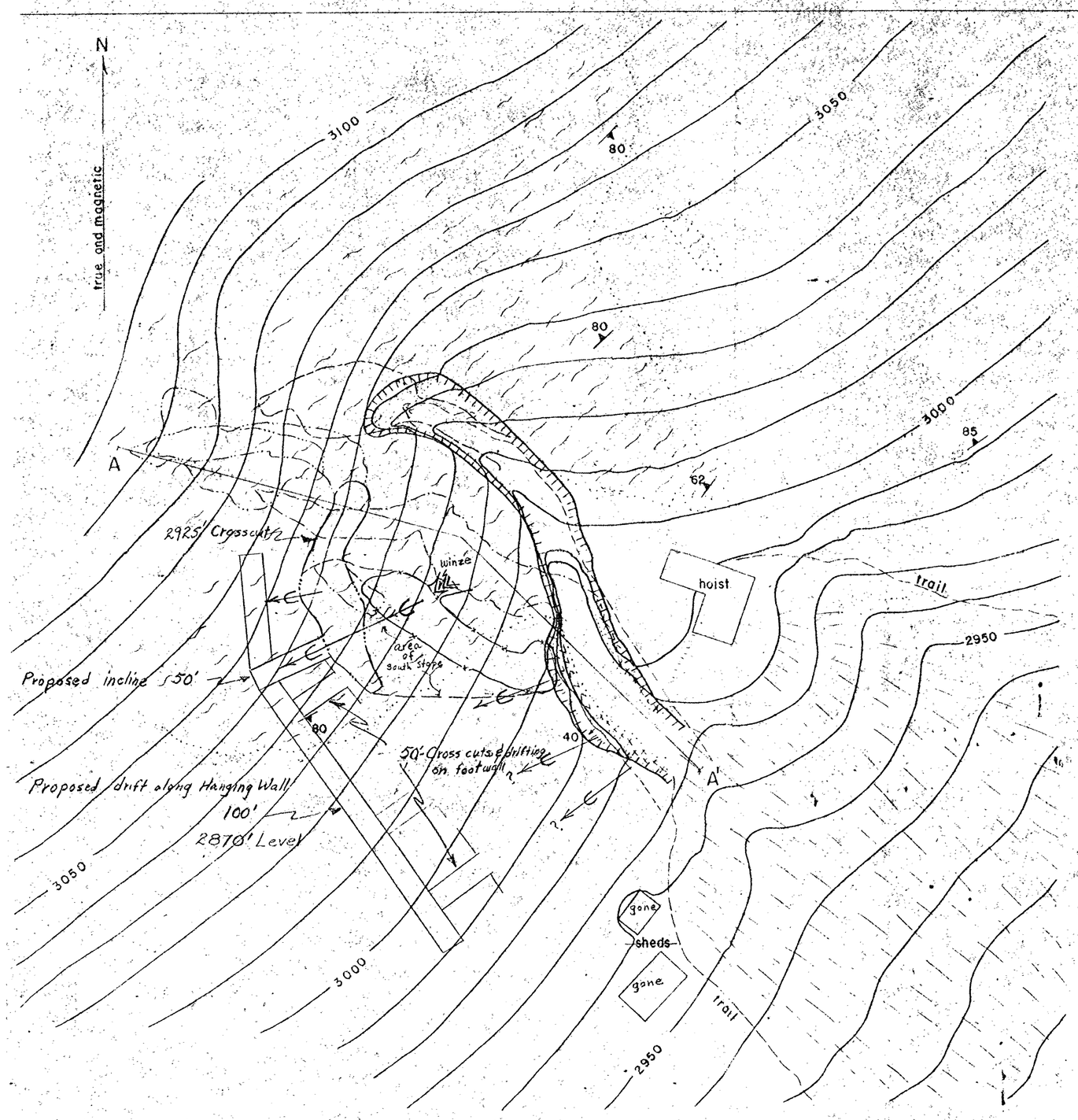
Your application for exploration assistance, dated November 11, 1957 submitted to our office at Knoxville, Tennessee has been assigned Docket Number DMEA-4882 and referred to the Nonmetallic Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

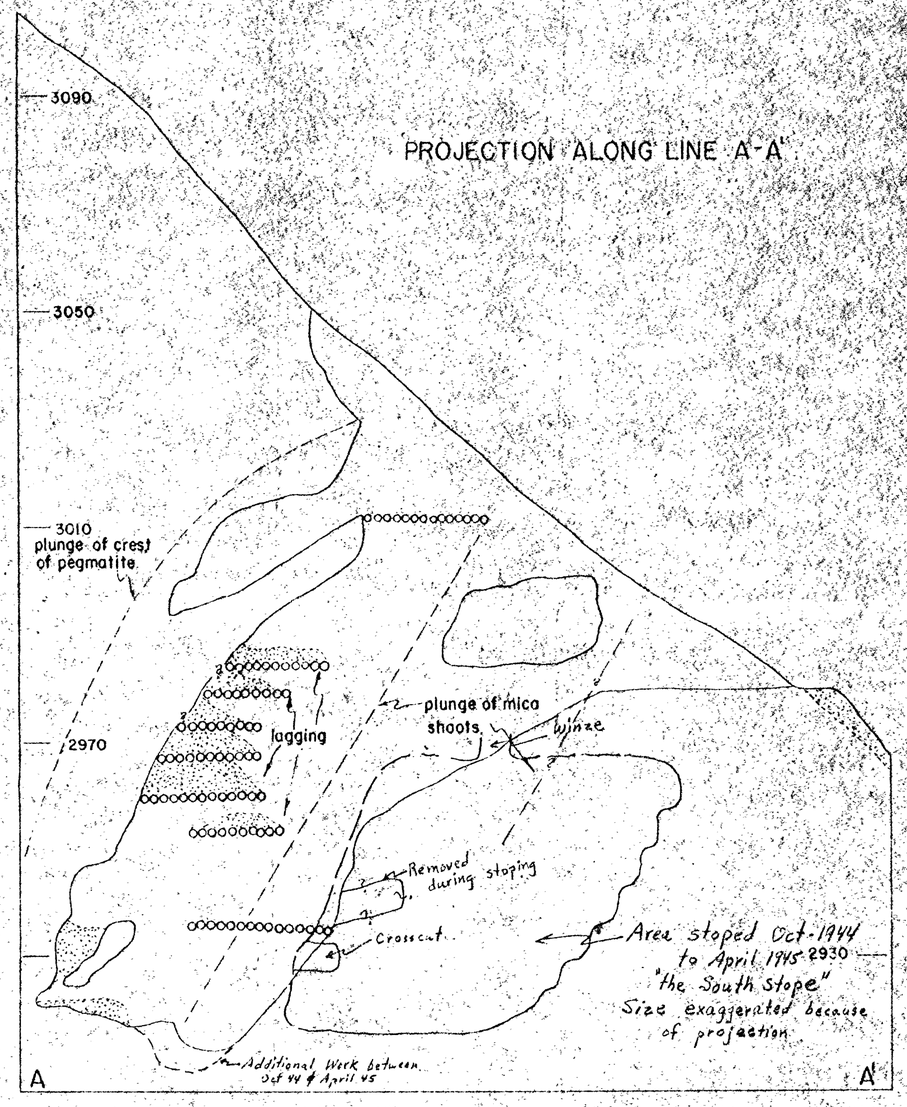
Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region V





Mapped by D.M. Larrabee, E. Wm. Heinrich, and R.W. Swanson. 1-13-44

Underground remapped by E. Wm. Heinrich and R.W. Lemke. 9-12-44

Mapping revised by S.A. Feitler & F.G. Lesure Jan. & March 1958

EXPLANATION

- Dump (in section)
- Quartz – feldspar pegmatite
- Coarse quartz-microcline pegmatite
- Massive quartz
- Sheet mica
- Biotite gneiss
- 55 Contact, location accurate, showing dip
- Contact, location approximate
- Contact between pegmatite units
- 42 Attitude of foliation
- Limit of exposure and outcrop
- Rim of open cut
- Dump
- Upper incline
- 2980' level
- 2960' level
- 2935' level
- 2920' level

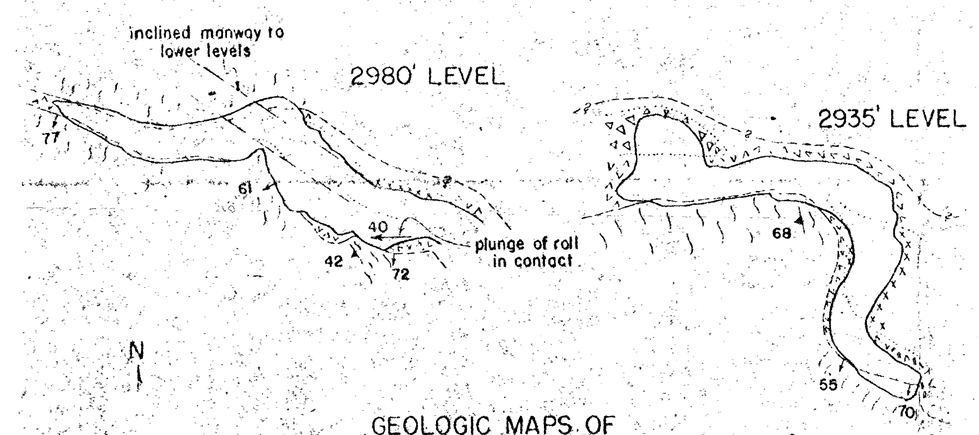
} Projected outline of underground workings

65 Plunge of axis of mica-rich roll

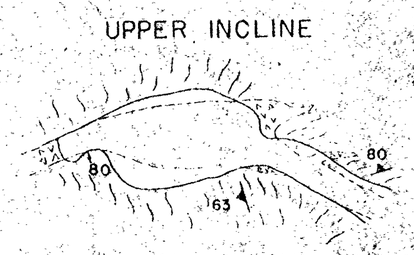
Bowers Mine

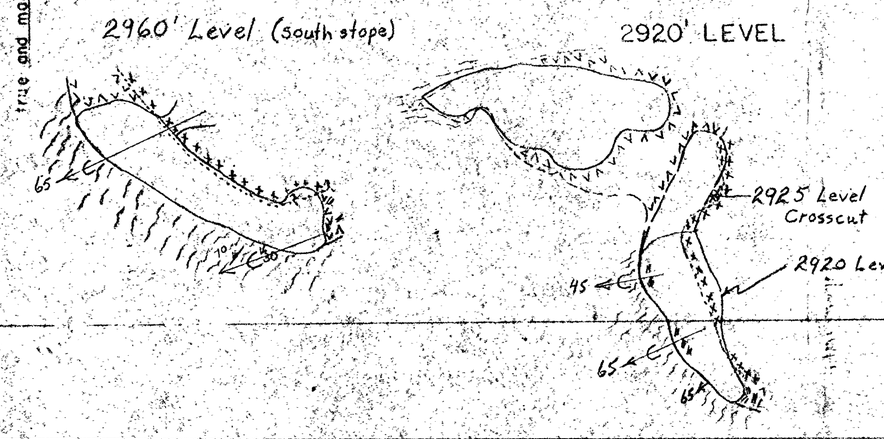
Jackson County, North Carolina

DMEA 4882 (mica)



GEOLOGIC MAPS OF UNDERGROUND WORKINGS





0 20 40 60 80
SCALE IN FEET

Bowers Mica Mine, Jackson Co., N.C.

1