DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E NO._____ | DMEA NO. 4779

23 SEP 1957

Application
- [ ] Denied
- [ ] Withdrawn

Contract 1135
- [ ] 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
- [x] Closing Letter
- [x] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [x] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [x] Work Completed analysis (final)

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

- [ ] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [x] Interim Field Team Reports
- [x] 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. 1 : Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/1	[illegible]	600
		~~600~~
12-1	Chandler	800
12/2	Selfridge	1200
		110
12/2	C	220
		600

DEC 2 1958 600

Messrs. Roy Grindstaff and Claude Greene
c/o Mr. Claude Greene
Spruce Pine, North Carolina

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and
Claude Greene
Johnson Mine Property
Mitchell County, North Carolina
Contract No. Idm-E1135

Gentlemen:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

WCAnderson:gad 11/28/58
Copy to: Dir. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Velcie Hughes, Bandana, North Carolina

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/1	Houk	600
		600
	Chamber	800
12/2	Selfridge	120
		110
		220

600

DEC 2 1958

Mrs. Velcie Hughes

Bandana, North Carolina

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and
Claude Greene
Johnson Mine Property
Mitchell County, North Carolina
Contract No. Idm-E1135

Dear Mrs. Hughes:

Enclosed is a copy of a self-explanatory letter of today to the Operators under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Enclosure

WCAnderson:gad 11/28/58
Copy to: Dir. R. File
Field Team, Region V
Mr. Kiilsgaard
Mr. Dietrich
Mr. Chambers
Mr. Houk

8623

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Grindstaff and Greene
c/o Claude Greene
Spruce Pine, North Carolina

pertaining to Exploration Project Contract No. Idm-F1135, DMEA No. 4779, for October 1957 to April 1958, inclusive, covering a mica project at the Johnson Mine, Mitchell County, North Carolina.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, verification of work performed by reference to Field Team reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the reason that:

all of the costs were under a contract provision for payment by the Government at fixed unit costs for work performed.

The findings of this review are stated in the following summary:

Total cost billed by Operator		$6,624.00
Exceptions:		
Prior to this review	$ -0-	
Herewith	-0-	-0-
Total acceptable cost		$6,624.00

The contract calls for a 75 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as having met the terms of the contract, payments as follows are valid and proper:

Payable on audited claim	$4,968.00
Paid to date	4,584.00
Balance due Operator	$ 384.00

E. D. Talbert, Auditor

May 5, 1958

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

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 4 1957

DATE		CODE
10/4	C	220
10/7	B	215
10/7	Home	600

October 2, 1957

Memorandum

To: Operating Committee, DMEA, Washington, D. C.

From: Executive Officer, DMEA, Region V, Knoxville, Tennessee

Subject: Signed Contract - DMEA-4779, Contract No. Idm-E1135
Grindstaff and Greene, c/o Claude Greene, Spruce Pine, N.C.
Johnson Mine (mica), Mitchell County, North Carolina

Enclosed are the signed Government's copy and the Audit copy of the subject contract.

The usual distribution of the other signed copies has been made by this office.

Robert A. Laurence

Robert A. Laurence

Enclosures 2

Government's Copy

MF-200A
(Rev. April 1956)

RECEIVED
OCT 4 1957
D.M.E.A.

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT
(Short Form)

DMEA No.	*Commodity*	*Contract No. Idm–E*	*County*	*State*
4779	MICA	**1135**	Mitchell	North Carolina

It is agreed 23 SEP 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Roy Grindstaff and Claude Greene, doing business as the partnership of Grindstaff and Greene

whose mailing address is c/o Claude Greene
Spruce Pine, North Carolina
hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF–200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before NOV 1 1957, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within 9 months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $6,624.00. The Government will contribute 75 percent of the fixed unit cost of the work performed, not exceeding $4,968.00, in accordance with the provisions of Articles 4 and 5.

(c) The Operator shall not transfer or assign this contract or any right or obligation thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's rights of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances: None

(b) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached, as follows:

(c) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. The Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing

in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. Two copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 6 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. *Performance of the work.*—(a) Operator's responsibility.—The work shall be performed diligently, efficiently, expertly, in a workmanlike manner, and in accordance with good mining standards and State regulations governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work, as specified in Article 1 (a).

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after certification of discovery or development, to inspect production operations and underground workings. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. *Contribution by the Government.*—The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5 (b); but all payments by the Government are provisional only, subject to audit, and until the account between the Operator and the Government is finally audited and settled and the Operator's final report has been rendered, the Government may withhold such sums as it sees fit but not in excess of 10 percent of the estimated total cost of the work. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government will not contribute to the cost of any work performed prior to the date of this contract. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(a) Operator's records.—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine all pertinent books, documents, papers, and records of the Operator.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 6. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered a sufficient final report (see Article 5), may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government a royalty on all minerals mined or produced from the land, 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 or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling, assaying, or transportation performed or paid by the Operator or by anyone other than the buyer are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent) after the lapse of six months from the date the ore was extracted from the ground remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

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

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this Article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 7. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 7 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and liens to secure the payment thereof, and such rights shall be fully preserved.

ARTICLE 8. *Notices to be given by the Government* may be delivered to the Operator or may be sent by registered mail addressed to the Operator at the mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 9. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 10. *Changes and added provisions.*—

.....

.....

.....

.....

.....

.....

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Roy Grindstaff and Claude Green
(Operator)

By Roy Grindstaff (partner)
Roy Grindstaff

By Claude Greene (partner)
Claude Greene

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

Long
Hoffmann
Clarkson
Hawk
Lafferty
Selfridge

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: 1956—O-383069

ORIGINAL FILE COPY
DMEA
RECEIVED 4 1957
DATE CODE

EXPLORATION PROJECT CONTRACT
ROY GRINDSTAFF AND CLAUDE GREENE
DOCKET NO. DMEA-4779

ANNEX I

The land referred to in Article 2 of the Contract is a 5-acre tract known as the Johnson Mine Property. The tract is located along a small tributary of Bandana Hollow 0.5 of an airline mile N. 79° W. of Bandana Post Office, Mitchell County, North Carolina, and is described as follows:

> Beginning on a stake, a corner of Claude Sparks property, and runs with said Sparks line North 132' to a stake at a White Oak; thence running N. 29° W. 482' to a stake in the Claude Hughes line; thence running with said line S. 45° W. 200' to a stake; thence S. 66° W. 396' to a Poplar on top of the ridge; thence with the line of the Abernathy Tract S. 21° E. 231' to a stake in the old line; thence running with said line S. 86° E. 660' to the beginning. Contains approximately five acres.

The Operator is the owner of the mineral rights. A Consent to Lien and Subordination Agreement signed by Velcie Hughes, the owner of the surface rights, is attached.

MF-205
(Combines and supercedes MF-201 and MF-203)
June 1956

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E 1135
Contract Date 23 SEP 1957

RECEIVED SEP 9 1957 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Mitchell, State of North Carolina, described as follows: 2/ Beginning on a stake, a corner of Claude Sparks property, and runs with said Sparks line North 132' to a stake at a White Oak; thence running N. 29° W. 482' to a stake in the Claude Hughes line; thence running with said line S. 45° W. 200' to a stake; thence S. 66° W. 396' to a Poplar on top of the ridge; thence with the line of the Abernathy Tract S. 21° E. 231' to a stake in the old line; thence running with said line S. 86° E. 660' to the beginning. Contains approximately five acres.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

None

1/ Mining or production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated July 22, 1955, and recorded in Book 83, Page 132, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this _____ day of _____, 195__.

Velie Hughes [Seal] Bandana, Mo. Cor. [Address]

_____ [Seal] _____ [Address]

_____ [Seal] _____ [Address]

_____ [Seal] _____ [Address]

_____ [Seal] _____ [Address]

_____ [Seal] _____ [Address]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

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DATE

EXPLORATION PROJECT CONTRACT
ROY GRINDSTAFF AND CLAUDE GREENE
DOCKET NO. DMEA-4779

EXHIBIT A

Description of the Work

Exploration for concentrations of strategic mica shall be performed in the area indicated on the attached map entitled,"Johnson Mine Property, Mitchell County, North Carolina, DMEA-4779 (mica)," as follows:

1. Prepare a shaft site by excavating an area approximately 50 feet long by 30 feet wide by 5 feet deep for an aggregate total excavation of not more than 278 cubic yards.

2. Construct:

(a) A toolhouse, minimum dimensions 7 feet by 8 feet by 10 feet.

(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by $2\frac{1}{2}$ feet.

(c) An exploder storage magazine, minimum dimensions 2 feet by $1\frac{1}{2}$ feet by 1 foot.

The toolhouse may be unfloored; shall be made from unfinished lumber, with protective roof covering; and shall be equipped with lock and key.

The powder and exploder magazines shall be boxed on all sides; shall be made from 2-inch hardwood or 3-inch softwood lumber; and shall be braced at the corners. No metal shall be exposed; and the doors shall be equipped with the equivalent of a 5-tumbler jarproof lock.

3. From the floor of the excavated area, sink a two-compartment vertical or inclined shaft for a distance of not more than 75 feet.

4. Explore the pegmatite by driving from or near the bottom of the shaft, not more than 100 feet of drifts and/or crosscuts.

The shaft and the drifts and/or crosscuts shall be timbered as necessary and shall have minimum crosssectional dimensions of 5 feet by 7 feet in the clear of timber.

All work shall be performed on the pegmatite or in as close proximity thereto as possible.

The location, inclination, direction, and extent of all work are subject to the approval of the Government.

Fixed Unit Costs

1. Prepare shaft site--278 cubic yards of excavation @ $0.30/cu.yd. (rounded)		$83.00	
2. Construct:			
Toolhouse 1/	$76.00		
Powder magazine 1/	$25.00		
Exploder magazine 1/	$15.00	$116.00	
3. Sink a shaft 75 feet @ $43.00/ft.		$3,225.00	
4. Drift and/or crosscut 100 feet @ $32.00/ft.		$3,200.00	
Estimated total cost of project			$6,624.00
Government participation @ 75%			$4,968.00

1/ The completed work constitutes the unit.

Form MF-103
Revised Feb. 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)

Roy Grindstaff and Claude Greene
c/o Claude Greene
Spruce Pine, N. C.

RECEIVED
JUL 5 1957
DMEA

APPLICANT NOT TO USE THIS BLOCK

Docket Number: 4779
Date Received: 7/5/57
Government Participation %:
Region: V
Division Code: 600

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized: N.C.

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title

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

Estimated Cost of Project: $ 7,800.00

LOCATION OF PROPERTY

Name	County	State
Snow Creek Township, 12 mi. West of Spruce Pine, N.C.	Mitchell,	N. C.

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Amended, "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.

July 2, 1957
Dated

Claude Greene
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 performed 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, Amended.

(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.

* * * * *

INT.-DUP. SEC., WASH., D.C. 15539

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE

MF-103 Continuation Sheet

1. (a) Legal description given on attached sheet.

   (b) Johnson Mine Property.

   (c) Applicants own land.

   (d) No liens, mortgages or other encumbrances on property.

2. (a) Map of tract showing old works attached.

   (b) Applicants had no interest in previous operations.

   (c) No official records available. Mine prospected and worked briefly by J. N. Boone some two years ago. Produced some good mica.

   (d) Some mica sold previously; Old Abernathy Mine is near this prospect. Area is in mica belt.

   (e) Vein appears to run parallel with property line, some 100 feet from line. Outcroppings indicate mica to be present.

   (f) See (e).

   (g) None available.

3. (a) Project is accessible for examination. Roy Grindstaff will meet representatives and accompany them to examine prospect.

   (b) Project is approximately twelve miles from U.S.Mica Depot at Spruce Pine, N.C.

4. Applicant wishes to lower a 5'x7' shaft a depth of 100 feet; then drift with vein 80 feet. Wish to lower shaft just beside old works as shown on attached sketch map. Vein runs parallel with line of property.

   (b) Access road available.

   (c) Work can begin within 30 days and should be completed within six months. Shaft should be lowered within 3-4 months, drift driven in remaining time.

5. Roy Grindstaff will supervise operations. He has qualifications and personal history on record with DMEA. Has owned and operated many mines, including the George Howell Mine, one of largest in area.

MF-103 Continuation Sheet No. 2

6. Estimate of costs:

100' 5'x7' Shaft @ $50.00 per ft.	$ 5,000.00
80' Drift @ $35.00 per ft.	2,800.00
	$ 7,800.00

(A) No independent contracts.
(b) Applicant will supervise work, will need four men to furnish labor. Labor available.
(c) Materials and supplies available.
(d) Applicants own all equipment necessary.
(e) No initial rehabilitation except for moving equipment and supplies to site.
(f) Tool house and powder and exploder magazines.
(g) These items to be included in overall cost per foot as shown above.

7. Applicants are prepared to furnish their share of costs, both by cash and use of equipment owned.

Note: We are using an equipment rental of $250/month which we consider a fair and equitable equipment cost, in lieu of depreciation, which to determine would be time consuming, with very little difference in cost. WCA 8/22/57

Legal Description of Property

Beginning on a stake, a corner of Claude Sparks property, and runs with said Sparks line North 132' to a stake at a White Oak; thence running N. 29° W. 482' to a stake in the Claude Hughes line; thence running with said line S. 45° W. 200' to a stake; thence S. 66°W. 396' to a Poplar on top of the ridge; thence with the line of the Abernathy Tract S. 21° E. 231' to a stake in the old line; thence running with said line S. 86° E. 660' to the beginning.

Contains approximately five acres.

Map of this plot is attached.

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DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE

MEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

600

Project Summary Report

By: Walter C. Anderson November 28, 1958

1. Docket No. DMEA-4779-Mica
Contract No. Idm-E1135
Johnson Mine Property
Mitchell County, North Carolina

Application: Form MF-103 (February 1957) received July 5, 1957.
Work proposed by Applicant:

100 ft. of shaft @ $50/ft.	$5,000.00
80 ft. of drift @ $35/ft.	2,800.00
Total requested	$7,800.00

Operators: Roy Grindstaff and Claude Greene
c/o Claude Greene
Spruce Pine, North Carolina

Operators' property rights: Owners. (Mineral rights)

2. Contract: Form MF-200A (April 1956) dated September 23, 1957.
Work authorized:

Shaft site preparation	$83.00
Construction: Toolhouse, Powder & Exploder Magazines	116.00
75 ft. of shaft @ $43/ft.	3,225.00
100 ft. of drift and/or crosscut @ $32/ft.	3,200.00
Estimated total cost of project	$6,624.00
Government participation @ 75%	$4,968.00

Amendments: None

Work completed: Same as authorized.

Work began October 10, 1957, and was completed April 15, 1958.
Field Team Final Report received September 18, 1958.
Operators' Final Report received April 17, 1958.
No equipment purchased under contract.
About 1,300 pounds of mine-run medium to poor quality mica of uncertain value was produced during the period of the contract. None of it has been processed for sale.

3. Audit: Report of Review issued May 5, 1958.

Total accepted cost	$6,624.00
Government participation	$4,968.00

4. Certification of discovery: None issued.
No reserves of strategic, and only a small amount of other mica could be outlined.

5. Comments:

How conducted: All of the work in which the Government participated was acceptable.
Operation: Efficient and in a safe manner.
Engineering: Reporting by the Operators was acceptable.
Geological premise: Two parallel pegmatites which looked promising at the surface were proven by the exploration work to be badly sheared and containing low quality mica.
Geological criteria upon which work was based:

1. Pegmatite: Two parallel, concordant, unzoned pegmatites, containing strategic mica in both five feet and three feet thick, respectively, the former exposed over a strike length of 165 feet. They are composed of plagioclase, quartz, perthite, and muscovite, and are enclosed in a mica-schist country rock.
2. Mica - strategic quality, flat, clear, and ruby in color. Some is cracked and clay-stained.

Criteria developed during project:

1. Pegmatite: Two pegmatites exposed at surface proved to be limbs of a plunging syncline, a complex folded tabular pegmatite. Various limbs exposed by underground work, range in thickness from less than one foot to more than eleven feet. Concordant with foliation of mica schist country rock. Consists of medium-to coarse-grained plagioclase, perthite, quartz and muscovite. Badly sheared causing plagioclase crystals to be crushed and the muscovite to be bent and ruled.
2. Mica: About 1300 pounds of poor quality mica was produced, representing less than one percent of the pegmatite mined. Much was ruled and bent, some edge cracked and locky. Mica books averaged three inches by four inches and less. A few up to four by six inches.

Future possibilities: None as no mica-rich shoots were found and no reserves could be outlined.

Recommendations:

The Division of Nonmetallic Minerals concurs in the Field Team's recommendation not to certify. A closing letter is written based on the Operators' response of November 18, 1958, to our request for a report on the disposition of mica produced during the project.

Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:gad 11/28/58
Copy to: Dir. R. File
Mr. Houk

☑ Audited 5/5/58

☐ Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 5-16-58
Incl. Voucher for April-58

☐ Actual Cost

☑ Agreed Unit Costs

Name Roy Grundstaff + Claude Greene

Docket No. 7779

State No. Car.

Commodity Mica

Idm-E No. 7135

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	100 ft.	$3,200.00	100	3200.00	3200.00
Raising					
Shafts	75 ft.	$3,225.00	75	3225.00	3225.00
Winzes					
Drilling (Specify)					
Surface Excavation 278 c.yds @ 0.30/c.yd		$83.00		83.00	83.00
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.		116.00		116.00	116.00
Other (Specify)					
Totals		$6,624.00		6624.00	6624.00

Prepared by Walter C. Robinson

71626

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

November 21, 1958

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 24 1958

DATE	INITIALS	CODE
11/24	C	220
11/24	[illegible]	800
11/25	[illegible]	600

Mr. B. G. Thomas

Spruce Pine, N.C.

Re: DMEA-4779, Idm-E1135-mica
Grindstaff & Greene
Johnson Mine, Mitchell County, N.C.

Dear Mr. Thomas:

Will you please advise me as to what disposition was made of the 1300 pounds of mica recovered at the Johnson Mine during the DMEA contract?

Sincerely yours,

Robert A. Laurence
Executive Officer, OME
Region V

RAL/sm
cc
Opr. Com-2
Lynch
Files

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O. M. E.
RECEIVED NOV 24 1958
DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

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O. M. E.
RECEIVED NOV 20 1958

DATE	INITIALS	CODE
11-20	C	220
11/20	Hawk	600

November 17, 1958

Memorandum

To: Operating Committee, OME - Washington

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

Subject: DMEA-4779, Idm-E1135-mica. Roy Grindstaff and Claude Greene, Spruce Pine, N.C. Johnson Mine, Mitchell County, N.C.

Reference is made to your letter of October 7.

No reply to our letter of October 15, to the Operator has been received, and we are again writing about the royalty.

The address of Velcie Hughes is Bandana, N. C.

Robert A. Laurence

Robert A. Laurence, Executive Officer
OME Field TEam, Region V

Wm A Beck

Wm. A. Beck, for V. J. Lynch
Member, Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

ORIGINAL
O. M. E.
RECEIVED NOV 20 1958
DATE | INITIALS | CODE

November 17, 1958

Mr. Claude Greene

Spruce Pine, N.C.

Re: DMEA-4779-mica
Grindstaff & Greene
Johnson Mine, Mitchell County,
North Carolina
Contract No. Idm-E1135

Dear Mr. Greene:

On October 15, I wrote you requesting information on the disposition of the 1300 pounds of mica recovered at the Johnson mine during the DMEA contract work. No reply to that letter has been received.

Please advise me what has been done with this mica, and send your check for 5% of its value, regardless of whether it was sold as sheet, punch or scrap, together with copies of sales tickets or receipts.

Very truly yours,

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

RAL/sm
cc
Opr. Com-2
Lynch
Files

OFFICIAL FILE COPY
1958
10/17 C 220
10/17 687 800
600

October 15, 1958

Mr. Claude Greene
Spruce Pine, N. C.

Re: DMEA-4779 (mica)
Grindstaff and Greene
Johnson Mine, Mitchell County,
North Carolina
Contract- Idm-E1135

Dear Mr. Greene:

Our records indicate that about 1300 pounds of mica was recovered from the Johnson mine during the DMEA contract work.

Please advise me what disposition was made of this mica, as it is subject to the 5 per cent Government royalty, as provided in Article 6(b) (1) of the contract. Please send your check for 5 per cent of the value of this mica, and copies of sales tickets or receipts, regardless of whether it was sold as sheet, punch or scrap.

Sincerely yours,

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

RAL/zm
cc
Opr. Com-2
Lynch
Files

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/6	Anderson	600
10/7	Houk	600
10/7	GCS	130
"	Johnson	110
"	Christensen	100
10/8	C	220
		600

600

OCT 7 1958

Mr. Robert A. Laurence
Executive Officer, OMP
Field Team, Region 7
Room 2-B, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and Claude Greene
Johnson Mine Property
Mitchell County, North Carolina
Contract No. Idm-E1135

Dear Mr. Laurence:

According to the Field Team final report of September 16, 1958, there was recovered about 1,300 pounds of medium to poor quality mica of uncertain value during the period of the subject contract.

Before we write the closing letter, which is due on October 17, 1958, we will appreciate receiving a report on the value and disposition of this recovered mica.

Please furnish the address of Velcie Hughes, the lessor.

Sincerely yours,

George C. Selfridge

ACTING Chairman, Operating Committee (HB)

Approved:

Richard H. Mote (HB)
Member, Bureau of Mines

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

WCAnderson:gad 10/6/58
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

September 16, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED

DATE	INITIALS	COST
9/18	C	220
9/18	ey	130
9/22	[illegible]	110
9/23	[illegible]	130
9/24	C	220
9/26	WRA	600

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Team Final Report - DMEA-4779, Idm-E1135(mica)
Johnson Mine, Mitchell County, N. C.

Attached is the original and two copies of the subject report with maps attached.

The Field Team concurs with the recommendation of the Field Examiners that no certification should be issued.

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

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

DMEA Reviewed by
OPERATING COMMITTEE
9-23-58
(date)

DMEA
9/23 242 130
220

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Final Field Team Rpt.

FINAL REPORT
FIELD TEAM REGION V

DMEA-4779, Idm-E1135(mica) JOHNSON MINE
Mitchell County, North Carolina

by

F. G. Lesure, Geologist
Geological Survey

S. A. Feitler, Mining Engineer
Bureau of Mines

DME Reviewed by
~~DMEA~~ OPERATING COMMITTEE
9-23-58
(date)

September 16, 1958

DMEA EXPLORATION PROJECT

FINAL REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON MINE
Mitchell County, N. C.

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

SUMMARY

A complexly folded tabular pegmatite was explored at the Johnson mine by 75 feet of vertical and inclined shaft and 100 feet of drift. The limbs of isoclinal folds in pegmatite exposed in this exploration range in thickness from less than one to more than eleven feet. The pegmatite is a medium-to coarse-grained mixture of plagioclase, perthite, quartz, and muscovite. Medium to poor quality muscovite in books up to 4" x 6" forms less than one percent of the pegmatite mined. We recommend that no certification be made. Because of widespread shearing in the pegmatite and low quality mica no further exploration is warranted at this time.

INTRODUCTION

Location: The Johnson mine is on a small tributary of Bandana Hollow, 0.5 mile N 79°W of Bandana Post Office (Micaville, N.C. Quad., TVA. 1:24,000). It is 0.25 mile S 30°W of another Johnson mine (DMEA-3247) but is on a different lease area. The mine is accessible by 0.15 mile jeep road from the all weather Bandana Hollow read.

History: Before the DMEA contract work the surface workings at the Johnson mine consisted of two side-hill cuts, several short caved adits, and one caved incline shaft. These were strung out along a strike distance of 300 feet. Most of the previous work was done by an unknown party from Pennsylvania searching for feldspar. One short adit near the site of the DMEA contract work was driven

by Nate Boone in 1955. The amount of mica produced from these operations is unknown to us.

Contract Work

Work under DMEA-4779, Idm-E1135 was started October 10, 1957 and completed April 15, 1958. The shaft site was prepared by bulldozer. The excavation was 40' x 50' by 8' deep (590 cu.yds). All in excess of 278 cu. yds. was done at the Operator's expense. During this work three parallel pegmatite bodies were exposed to the northwest of the target pegmatite. A toolhouse, powder magazine and exploder magazine were built and a vertical shaft started. At a depth of 24 feet the pegmatite keel was intersected in the shaft. The shaft was turned and inclined down the keep at about 25° for 51 feet. A drift was leveled off from the incline and driven 87 feet to the northeast. A crosscut was collared 40-feet from the shaft bottom and driven 13 feet to the northwest where it ended in pegmatite. A 5-foot burn cut in the face of the cross-cut was all in pegmatite.

The contract work was efficiently and safely done. Inclement winter weather caused some delays.

GEOLOGY

The contract shaft and drift exposed a complex isoclinally folded tabular pegmatite at the Johnson mine. Although several separate pegmatite bodies may be present the two pegmatites exposed at the surface near the shaft proved to be limbs of a syncline plunging northeast (section CD). Two pegmatites cut near the

crosscut in the drift form an anticline also plunging northeast. Probably the other pegmatite bodies cut in the drift and crosscut are also part of a single body isoclinally folded (section AB).

The limbs of these folds trend northeast and dip steeply southeast. In general the pegmatite is concordant with the foliation of the mica schist country rock. The plunges of the two folds in the pegmatite are similar to plunges of lineations in the schist. Although the country rock at the surface was mapped as mica schist on the northwest side of the pegmatite and granitic mica gneiss on the southeast side, this difference was not observed underground.

The pegmatite in the various limbs exposed in the underground workings ranges in thickness from less than one to more than eleven feet. It consists of medium-to coarse-grained plagioclase, perthite, quartz, and muscovite. Locally along the thicker portions of the limbs discontinuous perthite-quartz cores are flanked by plagioclase-quartz-muscovite wall zones. Accessory minerals include fine-grained pyrite and garnet.

About 1300 pounds of muscovite was recovered during the contract work. Much of this was ruled and bent. Some was edge cracked and locky. Although books up to 4" x 6" were found most of mica was 3" x 4" and smaller. The mica was generally scattered throughout the pegmatite but was slightly more abundant along the walls. The sheet muscovite recovered represents less than one percent of the pegmatite mined.

The Johnson pegmatite was deformed after emplacement. Shear planes in the face trend northeast and dip southeast slightly discordant to the walls of the pegmatite. Slickensides and a lineation of sericite fragments on the shear palnes plunge southeast. Locally the plagioclase crystals appear to be crushed and the muscovite is bent and ruled, both indicating post-pegmatite deformation. The shearing is probably of the same general age and origin as similar deformation observed in many other Spruce Pine pegmatites.

PRODUCTION AND RESERVES

The Operator reported a total production from the shaft sinking and level work of 1300 pounds of medium to poor quality mica. This mica was generally scattered throughout the pegmatite but a slight concentration along the walls was noted. No mica-rich concentration in the pegmatite were found. The muscovite was recovered from an estimated 500 tons of pegmatite indicating much less than one percent muscovite, far below ore grade. No reserves can be calculated.

RECOMMENDATIONS AND CONCLUSIONS

We recommend that no certification be made. No mica-rich concentrations were found and the small amount of mica recovered was only of medium-to poor quality. The widespread shearing found in the pegmatite makes it difficult to plan any further exploration although considerable pegmatite is present and the body was not completely explored. Possibly along the limbs of some of the isoclinal folds mica concentrations may be present. The one anti-

clinal fold cut in the crosscut was not notably richer in muscovite.

Because of the poor quality of the mica, however, no further exploration is warranted at this time. Any future exploration should probably consist of crosscutting the entire pegmatite in the neighborhood of the crosscut.

EXPENDITURES

Total approved	$6,624.00
Total cost	6,624.00
Government's share of cost	4,968.00
Government's share unexpended	0
Value of production	?
Royalty	none

September 16, 1958

Frank G. Lesure, Geologist
Geological Survey

S. A. Feitler, Mining Engineer
Bureau of Mines

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

September 22, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 24 1958

DATE	INITIALS	CODE
9/24	C	220
		600

Memorandum

To: Nonmetallic Minerals Division
Office of Minerals Exploration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4779 (mica)

Applicant: Roy Grindstaff and Claude Greene

Name and Location of Property: Johnson Mine, Mitchell County, N. C.

Contract Number: Idm-E 1135

Date of Field Team Final Report: 9/16/58

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 9/22/58

Field Team Recommendation: Recommend that no certification be issued.

Comments:

1. Exploration work consisting of 75 feet of vertical and inclined shaft and 100 feet of drift was completed under DMEA contract.

2. About 1,300 pounds of muscovite was recovered during contract work, but most of it was of small size and the quality was poor.

3. Reserves of strategic mica are estimated to be negligible.

4. Expenditures -

Total approved	$6,624.00
Total cost	6,624.00
Gov't. share of the cost	4,968.00
Value of production during operation	- Unknown

Recommendation:

I concur with the recommendation of the field team that no certification be issued.

Donald R Levin
for W. F. Dietrich

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 12 1958

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION V

ELECTROTECHNICAL
EXPERIMENT STATION

P. O. BOX 217
NORRIS, TENNESSEE

May 9, 1958

Memorandum

To: Jay L. Chambers, Defense Minerals Exploration Administration, Interior Building, Washington, D. C.

From: Personal Assistant, Norris, Tennessee

Subject: Monthly reports and vouchers

We are enclosing two copies each of the following monthly reports and vouchers:

Idm-E1135
Grindstaff & Greene
Docket No.DMEA-4779
5th and final payment - month of April
Completion Date: 4/15/58
Amount $384.00

Idm-E1152
Reynolds Metals Company
Docket No.DMEA-4750
3rd and final payment - month of March
Termination: 3/18/58
Amount $1730.02

Idm-E1171
Phillips, Grindstaff and Fox
Docket No. DMEA-4910
2nd payment - month of April
Amount $387.00

Helen Miller
Helen R. Miller

Enclosures
/hbm
Copies to R. A. Laurence
V. J. Lynch
Norris files
Day files

Form MF-104 (Rev.)
(April 1952)

Final Report

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-56

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April 1958 Docket No. DMEA 4779 Contract No. IdmE 1135
Operator's Name Grindstaff & Greene Minerals Mica
Address c/o Claude Greene, Spruce Pine, N.C.
Contract Amount, $ 6624.00 Government Participation: 75% Amount, $ 4968.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		83.00	83.00			
Bulldozing		416.00	416.00			
Crosscutting						
16' Drifting @ 32.00	512.00	2272.00	2784.00			
Shaft		3225.00	3225.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Toolhouse		76.00	76.00			
Powder & Exploder Mags.		40.00	40.00			
(8) Contingencies (specify):						
TOTALS	512.00	6112.00	6624.00	512.00	6112.00	6624.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 4-15-58 *Payee Grindstaff & Greene
Per Ray Grindstaff Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$384.00
Signature Helen R. Miller
(Authorized Certifying Officer)
Date MAY 9 1958 Vou. No. 161
(See other side)

1280.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Tm E1135 in accordance with the terms of the contract.

Signature W. A. Beck Title Mining Engr. USBM Date MAY 8 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date MAY 8 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED MAY 12

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 8 195 Docket No. DMEA 4779 Contract No. Id-E 1135

Operator's Name Grindstaff & Greene Minerals Mica

Address c/o Claude Greene, Spruce Pine, N.C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
16' Drifting @ 32.00	Ft.	512.00	16	2784.00	87	32.00	100	32.00
Crosscutting				416.00	13	32.00		
Raising				3225.00	75	43.00	75	43.00
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails Bulldozing				83.00	278	.30	278	.30
Total Distributed Costs		512.00		6508.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs				116.00				
New Buildings, Improvements, etc.								
Total Costs		512.00		6624.00				

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

Date 4-15-58 Operator Grindstaff & Greene

Per Ray Grindstaff (B) Title Partner

NOTE.—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.

(Instructions on reverse)

Remarks:

(For Government use only)

W. A. Beck, Mining Engr.
USBM

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

OPERATOR'S

Monthly Progress Report

April, 1958

DMEA:4779, Idm-E 1135
(Mica)

Work Accomplished:

Work was completed as called for in the contract, when the drift was run to a distance of 87 feet. Some mica was recovered, bringing the total to approximately 1300#. The vein was approximately 5 feet wide and contained the same materials as it had shown throughout. Work was completed on April 11.

Daily Notes:

April 1 - 4: Drilled, shot and mucked out waste daily as drift was continued. Same materials showing as previously.

April 7-11: Continued with drift, completing 87 Feet total drift as called for in contract. Some small mica recovered. Vein about 5' wide when work completed. Work stopped on April 11.

About 1300# mica recovered from operation.//

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/5	Talbert	800
5/6	C	220
		602

MAY 6 1958

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

Re: Docket No. DMEA-4779 (Mica)
Grindstaff and Greene
Johnson Mine
Mitchell County, North Carolina
Contract No. Idm-E1135

Dear Mr. Laurence:

Enclosed are the original and three copies of a Report of Review, as requested by your May 1 memorandum. Also enclosed is the Operator's final (April 1958) MF-104, which was submitted with your request.

If you concur with the facts as stated in this report, please make the usual distribution. If for any reason you do not concur, please return the original and all copies with your comments to this Division.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Director
Contract Administration
and Audit Division

Enclosures

EDTalbert/ama
May 5, 1958

Copy to: Docket
Admr. Reading File
Helen R. Miller
Mr. Chambers

8623

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DMEA
RECEIVED 5 1958

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline miles N79°W of Bandana Post Office, Mitchell County, North Carolina.

The drift was advanced 17 feet N50°E ~~during the~~ interim, completing the project. All equipment except an electric pump has been removed from the site. The pump was running when the Examiners arrived, but none of the men were at the mine.

The pegmatite is at least 6 feet wide in the face with the footwall N50°E vertical to 80°NW. The hanging (southeast) wall 7 feet back from the face, where last exposed, is N65°E 65°SE. The pegmatite contains plagioclase, perthite, quartz and muscovite with some sulfides. Evidence of faulting persists and is reflected in the mica which is ruled and bent, but otherwise hard, free-splitting, and little stained.

The Operator reports 1300 pounds of hand cobbed muscovite recovered from the shaft and drift excavation. Mica recovery would have been significantly greater except for ruling and warping. Certification will not be recommended. ?

The operation was started October 10, 1957 and completed by April 15, 1958. The work was efficiently and safely done, but inclement weather caused delays.

The following work was completed under the contract:

Surface excavation 278 cubic yards

Construction: Toolhouse, powder and exploder magazines.

Shaft---75 feet

Drift and/or crosscut -- 100 feet

The shaft was sunk 24 feet vertical and 51 feet N55°E at about -25 degrees along the keel of the pegmatite.

A drift was driven 87 feet N45° to 60°E and a 13 foot crosscut N50°W was collared 40 feet from the shaft bottom.

The crosscut ends in pegmatite but lacks about 35 feet of cutting the pegmatite zone exposed by the surface excavation.

Inspected: April 21, 1958

Stanley A. Feitler, Mining Engineer
Bureau of Mines - DMEA

Frank G. Lesure, Geologist
Geological Survey - DMEA

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

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RECEIVED MAY 5 1958
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May 1, 1958

Memorandum

To: Jay L. Chambers, Director Contract Admin. and Audit Div. DMEA - Washington

From: Acting Executive Officer, DMEA - Region V - Knoxville

Subject: Completion of DMEA-4779, Idm-51135(mica) Johnson Mine, Mitchell County, N. C. Grindstaff and Green, Oprs.

Work on the subject contract has been completed.

The following units of work have been acceptably performed as verified by our Field Examiners:

1) A toolhouse, powder magazine and exploder magazine were constructed.

2) A shaft was sunk 75 feet.

3) A total of 100 feet of drifts and crosscuts were completed.

An adequate final engineering and geologic report has been received.

A Report of Review is requested - Operator's Monthly Report and Voucher attached.

V. J. Lynch

VJL/sm
cc: Opr. Dom-2
Lynch
Files

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

April 17, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED APR 21 1958

DATE	INITIALS	CODE
4/21	C	220
4/21	[illegible]	800
4/22	[illegible]	600

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region V - Knoxville

Subject: Operator's Final Engineering and Geologic Report - DMEA-4779, Idm-E1135-miaa. Johnson Mine, Mitchell County, North Carolina

Transmitted are three copies of the subject report.

V. J. Lynch

V. J. Lynch

Z

Operator's Final Rept

ORIGINAL FILE COPY
DMEA
RECEIVED APR 21 1958
DATE

Spruce Pine, N. C.
April 15, 1958

Mr. Robert A. Laurence, Executive Officer
D.M.E.A., Region V
Room 13, Post Office Building
Knoxville, Tennessee

Re: DMEA-4779, Idm-E 1135
Final Report

Dear Mr. Laurence:

Work began on the above contract on October 8, 1957. A trench approximately 150 feet long and 15 feet was bulldozed to allow for drainage and to prepare for shaft site. Shaft was lowered 75 feet deep, in pegmatite all of this distance, and produced about 300# of small mica. Test holes were made in slate walls to determine which way vein lay, then shaft was lowered on incline after vein was lost at 24' depth, then vein was again picked up.

We leveled off with a drift from the bottom of the shaft, driving a distance of about 40 feet. This drift was in pegmatite most of the way, but showed no mica. Test holes were made to Northeast to determine best direction for crosscut, but cut only into feldspar and and quartz. Crosscut was driven 13 feet, 6feet on one side, 7 feet on opposite. No favorable results were made, and drift was again resumed in original direction. Drift was completed at 87 feet, producing some mica at intervals throughout last 30 feet, and remaining about five feet wide at completion of contract.

Approximately 1300# of mica was recovered from the entire operation.

We wish to thank the field team for their assistance. If further details are necessary, please contact me.

Very truly yours,
GRINDSTAFF AND GREENE
Roy Grindstaff (B)
Roy Grindstaff, Partner

RECEIVED
APR 17 1958

Form [illegible]-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-
APR 21

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Feb. & March 195 8 Docket No. DMEA 4779 Contract No. [illegible] 2133
Operator's Name Christofferson and Groom Minerals [illegible]co
Address c/o Glenn Greene, Spring Place, [illegible]. C.
Contract Amount, $ 6634.00 Government Participation: 75% Amount, $ 4963.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		83.00	83.00			
Bulldozing	425.00		425.00			
Crosscutting 32.00	992.00	1280.00	2272.00			
Drifting		2225.00	2225.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		75.00	75.00			
Gasoline & Lubricating Oil		40.00	40.00			
(8) Contingencies (specify):						
Totals	1408.00	4704.00	6112.00	1408.00	4704.00	6112.00

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

Date [illegible] *Payee Christofferson & Groom

Per Ray Grindstaff Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1056.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date APR 18 1958 Vou. No. 160

(See other side)

[illegible]2.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1135 in accordance with the terms of the contract.

Signature S Fletcher Title MINING ENGINEER U. S. BUREAU OF MINES Date APR 17 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER DMEA - REGION V Date APR 17 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

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(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form [illegible]-104A
(Rev. 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

APR 27

Month of [illegible] 195[illegible] Docket No. DMEA 4779 Contract No. [illegible] 1135
Operator's Name [illegible] Minerals [illegible]
Address c/o [illegible], [illegible], [illegible]

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
31 Drifting @ 32.00	Ft.	992.00	31	2272.00	71	32.00	100	32.00
13 Crosscutting @ 32.00	Ft.	416.00	13	416.00	13	32.00		
Raising								
Shafts				3225.00	75	43.00	75	43.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
[illegible]				83.00	276	.30	275	.30
TOTAL DISTRIBUTED COSTS		1408.00		5996.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				116.00				
TOTAL COSTS		1408.00		6112.00				

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

Date 4-30-50 Operator [illegible] & [illegible]

Per Ray Grindstaff (B) Title Partner

REMARKS:

→ NOTE.—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.

(Instructions on reverse)

(For Government use only)

S Feitler

MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

OPERATOR'S

Monthly Progress Report

February & March
1958

DMEA: 4779, IdmE-1135
(Mica)

Work Accomplished:

Approximately two and one-half weeks time was lost during February due to severe weather, so not a great deal could be accomplished. Thirteen feet of crosscut was driven from the main drift after test holes were made. Most of this was in some vein, but no mica was found. We returned to original drift and continued to follow this pegmatite. In March we completed 31' of drift which stayed in pegmatite varying from three to five feet wide and which produced some small mica in places.

Daily Notes:

Feb. 3 - 7 : Drilled and shot in rock wall beginning crosscut in side of drift. Reached pegmatite after 3'.

Feb. 10-13 : Worked in pegmatite to 6' where vein was almost lost. Worked drift in opposite direction from main works for a distance of 7'. No mica found. Drilled, shot and mucked daily.

Feb. 17-28: Weather too severe to work.

March 3- 7 : Returned to 40' distance in original drift, and continued from there. Vein about 3 feet wide. Drilled, shot and mucked. Recovered some mica at end of week.

March 10-14: Four men continued with drift, repeating daily operations as above. Little change in materials, some mica appearing from time to time in vein, then pinching out.

March 17-21: Lost two days time. Drilled, and shot as vein widened to approximately five feet, showing some mica. To date have recovered about 1200# mica in all.

March 24-31: At end of week had completed 71 feet of drift, total. Little change in appearance of pegmatite, and repeated daily operations of drilling, shooting and mucking out waste.

COPY
DMEA
RECEIVED APR 10 1958
DATE | INITIALS | CODE
4/10 | B. | 220
15 | Corse | 100
" | [illegible] | 110
4/15 | [illegible] | 800
4/15 | [illegible] | 600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4779, Idm-E1135 (mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline miles N79°W of Bandana ~~Post Office,~~
Mitchell County, North Carolina

The drift was advanced 20 feet N40°E for a total of 71 feet. The face exposes a pegmatite 3 1/2 feet thick N35°E 65°SE containing plagioclase rich wall zones and perthite-quartz core about one-foot thick. A mica zone 2 to 6 inches wide follows the hanging wall in and near the face.

The crosscut was advanced 4 feet for a total of 13 feet and is in pegmatite from 5 feet back of the face. Another 5 feet of pemgatite thickness is exposed in a burn cut and the footwall is not exposed. The Operator plans to pull the ground around the burn and drill 8 feet into the face.

About 1300 pounds of mica have been recovered to date. Ruling and bending have reduced the quantity of mica saved from recent excavations.

The Operator was advised to drift with the remaining 16 feet.

Inspected: March 31, 1958

Stanley A. Feitler, Mining Engr.
Bureau of Mines

Frank G. Lesure, Geologist
Geological Survey

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DMEA
RECEIVED MAR 27 1958
DATE | INITIALS | CODE
3/27 | C | 220
/27 | Com | 100
2 | 769 | 110
3/28 | 2 | 800
3/31 | Hawk | 600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4779, Idm-E1135 (mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location : 0.5 airline mile N79°W of Bandana Post Office, Mitchell County, North Carolina.

No one was at the mine at the time of this inspection.

Drifting totalls 51 feet; from the shaft bottom 23 feet N60°E, then 28 feet N45°E to the face. A crosscut 9 feet N50°W is centered 40 feet from the shaft.

Two pegmatites are exposed in the face. On the southeast is a pegmatite 30 inches thick, medium to coarse-grained, containing plagioclase, quartz, muscovite and garnet. The hanging wall is N50°E, 60°SE and the footwall is N25°E, 55SE. To the northwest, separated by a 14-inch schist septum, is another pegmatite. Its hanging wall is N40°E, 60°SE and the mineralogy is the same, but mica up to 3 x 4 inches is exposed. This northwest pegmatite is estimated to be 4 feet thick by projecting to the crosscut where the footwall is exposed.

Minor faulting observed near the hanging wall may account for ruling noted in the mica near the crosscut.

The block muscovite beside the toolhouse is estimated to weigh 1000 to 1100 pounds. //

The Operator could not be reached by telephone to ask about the results of drilling in the face of the crosscut where the wall of additional pegmatite appears.

Mr. J. H. Vallely, Bureau of Mines, Knoxville Field Office accompanied the Field Examiners on the inspection.

Inspected: March 17, 1958

S. A. Feitler, Mining Engineer
U. S. Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey (DMEA)

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OFFICIAL FILE COPY
DMEA
RECEIVED MAR 17 1958

DATE	INITIALS	CODE
3/17	C	220
/17	Com	100
"		110
3/18		800
3/18		600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline mile N79°W of Bandana Post Office, Mitchell County, North Carolina.

The drift from the bottom of the shaft totals 34 feet N52°E. The south wall 10 to 15 feet above the keel is essentially vertical with dips varying from steeply north to steeply south.

The medium grained pegmatite contains plagioclase, quartz, perthite and muscovite, with some garnet and pyrite. Quartz is in pods up to 18 inches across and muscovite books up to 4 x 4 inches have been recovered.

The level drift is separating from the keel where little mica was found. About 700 pounds of block muscovite have been recovered to date. The last five feet of drift yielded approximately 25 pounds.

A crosscut is to be driven north normal to the south wall from near the present heading. Drifting will be continued along the southwall.

Inspected:
March 3, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines

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Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 42

Month of January 195 8 Docket No. DMEA 4779 Contract No. Idm-E-1135
Operator's Name Grindstaff and Greene Minerals Mica
Address c/o Claude Greene, Spruce Pine, N. C.
Contract Amount, $ 6624.00 Government Participation: 75 % Amount, $ 4968.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing		83.00	83.00			
Crosscutting						
40' Drifting @ 32.00 ft.	1280.00		1280.00			
Shaft		3225.00	3225.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Toolhouse		76.00	76.00			
Powder & Exploder Mags.		40.00	40.00			
(8) Contingencies (specify):						
TOTALS	1280.00	3424.00	4704.00	1280.00	3424.00	4704.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 2-15-58 *Payee Grindstaff and Greene
Per Roy Grindstaff (Ms.) Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$ 960.00
Signature Helen R. Muller
(Authorized Certifying Officer)
Date FEB 25 1958 Vou. No. 136
(See other side)

320.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1135, in accordance with the terms of the contract.

Signature [illegible] Title MINING ENGINEER U. S. BUREAU OF MINES Date FEB 19 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date FEB 19 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 3 Docket No. DMEA 4779 Contract No. Idm-E-1135
Operator's Name Grindstaff and Greene Minerals Mica
Address c/o Claude Greene, Spruce Pine, N. C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
40' Drifting 32.00	Ft.	1280.00	40	1280.00	40	32.00	100	32.00
Crosscutting								
Raising								
Shafts				3225.00	75	43.00	75	43.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Bulldozing				83.00	278	.30	278	.30
Total Distributed Costs		1280.00		4583.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				116.00				
Total Costs		1280.00		4704.00				

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

Date 2-15-53 Operator Grindstaff and Greene

Per _____ Title Partner

NOTE.—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.

(Instructions on reverse)

Remarks:

(For Government use only)

N. J. Zgnich
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

OPERATOR'S

MONTHLY REPORT OF PROGRESS

January, 1958

DMEA-4779

Idm-E-1135 (Mica)

Work Accomplished:

We have completed 40 feet of drift during January, and have driven two test holes to the Northeast, each eight feet. The drift has been in pegmatite all the way, but has produced no mica. The two test holes cut through feldspar and quarts but did not reach slate as was hoped. Extremely severe weather has closed the work for a few days and has slowed progress.

Daily Notes:

January 3-7 : Drilled and shot in pegmatite, driving drift as outlined in contract. In vein material. Mucked out waste.

January 10-14: Continued with drift in same direction, repeating daily operations of shooting, drilling and mucking. Drift continued in pegmatite, but no mica showed.

January 17-21: Lost few days due to bad weather. Continued driving drift with same vein materials throughout.

January 24-28: Completed 40' of drift. Drove two test holes to the Northeast trying to determine best direction for crosscut. Both test holes cut into feldspar and quarts and pegmatite materials, but did not hit slate. Four men working full time except as weather prevented.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 13 1958

DATE	INITIALS	CODE
2-13	C	220
13	Cm	100
11	[illegible]	110
2/14	[illegible]	800
2/14	[illegible]	600

INTERIM REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline mile N79°W of Bandana Post Office, Mitchell County, North Carolina

No one was at the mine site at the time of inspection. Water in the shaft and drift prevented access and measurement.

Inspected: Feb. 3, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines

F. G. Lesure, Geologist
Geological Survey

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DMEA
RECEIVED JAN 31 1958

DATE	INITIALS	CODE
1/31	C	220
1/31	Conn	100
2/3	Hook	600

INTERIM REPORT

DMEA-4779, Idm-E1135 (mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greenem Spruce Pine, N.C.

Location: 0.5 airline mile N79°W of Bandana Post Office, Mitchell County, North Carolina

A drift was leveled off from the 20 to 25° incline along the keel and advanced 26 ft in pegmatite along the south wall. This wall dips steeply north near the face.

The pegmatite is plagioclase rich and contains some microcline and quartz with books of muscovite, the largest up to 4 x 6 x 1/2 inches in size. Todate 500 to 600 pounds of block muscovite have been recovered. The mica is somewhat ruled, edge-cracked, and locky, but will yield pattern of strategic quality.

Drill holes 8 feet into the north wall of the drift and shaft 18 feet and 30 feet back from the face are in pegmatite all the way.

As the keel has not been productive zone, the Operator was advised to drift 10 feet more and then crosscut to north, keeping an 8 foot drill hole ahead of the work. The drift is to be continued, but the crosscut will be stopped for inspection at 10 feet plus 8 feet of drill hole unless the wall is reached.

Inspected: January 20, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines

F. G. Lesure, Geologist
Geological Survey

INTERIM REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON MINE

Operator: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline miles N79°W of Bandana Post Office, Mitchell County, N.C.

No one was at the mine when the Examiners arrived at 3 p.m.

The inclined portion of the shaft is 51 feet long, the entire shaft is now 75 feet long and completed. The face is pegmatite containing plagioclase, microcline, quartz, muscovite, and wisps of schist.

A drift round is drilled and ready to be blasted.

Approximately 400 pounds of block mica has been accumulated at the mine in sizes up to 4 x 6 inches, but the average is about 2 x 2 inches.

Inspected: 1-6-58

DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE
1/20	gb	220
1/21	[illegible]	600

S. A. Feitler, Mining Engineer
Bureau of Mines

F. G. Lesure, Geologist
Geological Survey

Form M-1101 (Rev. 2)
(April 1952)

RECEIVED
JAN 22 1958
U.S.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-37

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1957 Docket No. DMEA 4779 Contract No. Idm E-1135

Operator's Name Grindstaff and Greene Minerals Mica

Address c/o Claude Greene, Spruce Pine, N. C.

Contract Amount, $ 6624.00 Government Participation: 75 % Amount, $ 4968.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing		83.00	83.00		83.00	83.00
Crosscutting						
7' Drifting @ 32.00 ft.	224.00	-	224.00			
23' Shaft @ 43.00 ft.	989.00	2236.00	3225.00	989.00	2236.00	3225.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Toolhouse		76.00	76.00		76.00	76.00
Powder & Exploder Mags.		40.00	40.00		40.00	40.00
(8) Contingencies (specify):						
TOTALS	1213.00	2435.00	3648.00	989.00	2435.00	3424.00

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

Date 1-14-58 *Payee Grindstaff and Greene

Per Roy Grindstaff Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 741.25

Signature Helen R. Miller
(Authorized Certifying Officer)

Date JAN 20 1958 Vou. No. 120
(See other side)

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247.25

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED JAN 22 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Dec. 1957 Docket No. DMEA 4779 Contract No. IdmE-1135
Operator's Name Grindstaff and Greene Minerals Mica
Address c/o Claude Greene, Spruce Pine, N. C.

	OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
7'	Drifting @ 32.00	Ft.	224.00	7	224.00	7	32.00	100	32.00
	Crosscutting								
	Raising								
23'	Shafts @ 43.00	Ft.	989.00	23	3225.00	75	43.00	75	43.00
	Winzes								
	Drilling: Core								
	Churn								
	Auger								
	Stripping								
	Trenching								
	Test Pits								
	Roads and Trails								
	Bulldozing	cu.yd.			83.00	278	.30	278	.30
	TOTAL DISTRIBUTED COSTS		1213.00		3532.00				TOTAL COSTS AUTHORIZED BY CONTRACT
	Operating Equipment Purchased								
	Initial Rehabilitation and Repairs								
	New Buildings, Improvements, etc.				116.00				
	TOTAL COSTS		1213.00		3648.00				

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

Date 1-14-58 Operator Greene and Grindstaff

Per Title Partner

REMARKS: 7 feet of drifting claimed for December disallowed. Work not completed.

NOTE.—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.

(Instructions on reverse)

(For Government use only)

S Fiedler
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

OPERATOR'S

Monthly Progress Report

December,1957

DMEA-4779

Idm-E-1135

Work Accomplished:

We completed the 75 feet of shaft called for in the contract, and leveled off on a drift, advancing seven feet. The drift is in pegmatite and looks hopeful, but no mica has been found so far. Employees did not work during the week of Dec. 25, which slowed progress.

Daily Notes:

Dec. 2-6: Continued down with shaft. In vein material showing no mica. Drilled, shot and mucked out waste.

Dec. 9-13: Incline shaft continued downward. Pumped some water in mornings. Drilled and shot daily, then removed waste.

Dec. 16-2o: Completed 75' shaft work. Began drift during last of week. Drift still in pegmatite. Drilled, shot and mucked. Did some work on equipment.

Dec.23-27: Did not work. Christmas holidays given employees.

Dec.30-31: Completed 7 feet of the drift, with materials looking much the same. No mica in vein so far. Four men worked full time during weeks at the mine.

Form MF-104 (Rev.)
(April 1952)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 31

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Oct. & Nov. 195 7 Docket No. DMEA 4779 Contract No. Idm-E 1135
Operator's Name Grindstaff and Greene Minerals Mica
Address c/o Claude Greene, Spruce Pine, N. C.
Contract Amount, $ 6624.00 Government Participation: 75% Amount, $ 4968.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
278 yd Bulldozing 0.30 cu.yd.	83.00	-	83.00			
Crosscutting						
Drifting						
52' Shaft @ 43.00 ft.	2236.00	-	2236.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Toolhouse	76.00	-	76.00			
Powder & Exploder Magazines	40.00	-	40.00			
(8) Contingencies (specify):						
TOTALS	2435.00		2435.00	2435.00	—	2435.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 12-15-57 *Payee Grindstaff and Greene
Per Claude Greene Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is ~~correct and~~ proper for payment in the amount of:
$ 1826.25
Signature Helen R. Miller
(Authorized Certifying Officer)
Date DEC 20 1957 Vou. No. 104
(See other side)

608.75

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1135 in accordance with the terms of the contract.

Signature S. Keitler Title MINING ENGINEER U. S. BUREAU OF MINES Date DEC 18 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title EXECUTIVE OFFICER DMEA REGION V Date DEC 18 1957

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
DEC 23 1957
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Oct. & Nov. 1957 Docket No. DMEA 4779 Contract No. Idn-E 1135
Operator's Name Grindstaff and Greene Minerals Mica
Address c/o Claude Greene, Spruce Pine, N. C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
52' Shafts @ 43.00	Ft.	2236.00	52	2236.00	52	43.00	75	43.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
278 cu.yd. Bulldozing @ .30	cu.yd.	83.00	278	83.00	278	83.00	278	.30
TOTAL DISTRIBUTED COSTS		2319.00		2319.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		116.00		116.00				
		2435.00		2435.00				
TOTAL COSTS								

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

Date 12-15-57 Operator Greene and Grindstaff

Per Claude Greene Title Partner
M.B.

NOTE.—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.

REMARKS:

(Instructions on reverse)

(For Government use only)

S Feitler

MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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GPO 872894

OPERATOR'S
MONTHLY PROGRESS REPORT
October, 1957

DMEA-3779
Idm-E 1135

Work Accomplished:

We began work on October 8. We bulldozed a trench approximately 150 feet long and 15 feet deep for drainage and prepared the shaft site. We moved in machinery and equipment, set up machinery and lowered the shaft to a depth of 16' by the end of the month. Shaft was in pegmatite most of the way, but no mica encountered to this depth. Four men employed full time.

Daily Notes:

October 8-11: Bulldozed four days, cutting trench for drainage and preparing shaft site.

October 14-18: Moved in equipment and supplies. Set up machinery mask and boom poles, etc. Prepared to lower shaft.

October 21-25: Began work lowering shaft. Drilled and shot, shaft in pegmatite. Mucked out waste. Lowered shaft to 8'. Had trouble with poles, worked at fixing these.

October 28-31: Continued down with shaft, still in vein material. No mica so far, but shaft in pegmatite when 16' depth was reached at the end of week. Four men worked full time.

OPERATOR'S

MONTHLY PROGRESS REPORT

November, 1957

DMEA-4779

Idm-E 1135

Work Accomplished:

After reaching 24' depth with shaft, we went through the vein material. We then drove test holes in the slate walls, to determine which direction to follow. We began shaft work at an incline, picking up vein again. Continued incline to 52' depth. During month completed manway, built power plant to furnish own lights. Recovered approximately 300# small mica scattered in vein as shaft progressed downward. No particular difficulties encountered.

Daily Notes:

Nov. 5-9 Continued down with shaft, pumping some water in mornings. Drilled and shot, running out of vein material. Mucked out waste.

Nov. 12-16: Made test holes in slate walls to determine which way vein lay. Began incline shaft, picking up vein material again. Drilled, shot and mucked. Some water pumped each morning.

Nov. 19-23: Constructed tool house, powder and exploder magazines. Continued work in shaft, picking up some small mica in vein. Drilled and shot, mucked out waste.

Nov. 26-30: Constructed power plant to furnish lights. Drilled and shot in slate and vein material, recovering some more small mica. Approximately 300# recovered to date. Shaft reached 52 feet depth. Four men employed full time.

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INTERIM REPORT

DMEA-4779, Idm-E1135 (mica) JOHNSON MINE

Operators: Roy Grindstaff and Claude Greene, Spruce Pine, North Carolina

Location : 0.5 airline miles N79°W of Bandana Post Office, Mitchell County, N.C.

The shaft now includes 24 feet vertical from the collar and 33 feet N55°E inclined about 23° along the keel. Near the face, the hangingwall strikes N65°E almost vertical. The footwall is not exposed in the shaft bottom, 4 feet up from the keel.

A two-foot quartz, plagioclase muscovite zone follows the hanging wall. The Operator reports that the mica has appeared in the last few feet. An irregular perthite mass occurs near the center of the face and more quartz , plagioclase-muscovite, in patches near the north end of the shaft.

Shaft sinking along the keel will be continued and will be followed by drifting along the hangingwall. Approximately 300 pounds of mica have been recovered to date.

Mr. V. J. Lynch, Mining Engineer, U. S. Bureau of Mines, accompanied the Field Examiners on the inspection.

Inspected: December 10, 1957

S. A. Feitler, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

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INTERIM REPORT

DMEA-4779, Idm-E1135-mica - JOHNSON MINE

Operators: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location : 0.5 airline mile N79°W of Bandana Post Office, Mitchell County, North Carolina

The shaft was advanced 12 feet 20 to 25° along the keel which plunges N55°E. The Operator was advised to stay near the bottom of the keel to maintain maximum slope.

Attitude of the hangingwall is N55°E 65°SE. The pegmatite is 8 feet wide, 6 feet up from the keel and the walls are diverging slightly. Some mica is found on both walls, but the hanging wall contains more than the footwall.

The pegmatite contains mostly plagioclase and has thin quartz streaks with scrap size muscovite in the central portion. No definite quartz core is exposed.

About 150 pounds of average quality muscovite was recovered during the interim.

Inspected: November 26, 1957

Stanley A. Feitler, Mining Engineer
Bureau of Mines

R. A. Laurence, Geologist
Geological Survey

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DATE	INITIALS	CODE
12/6	C	220
9	Core	100
10	Hook	600

z

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DMEA
RECEIVED NOV 25 1957

DATE	INITIALS	CODE
11/25	gf	220
"	[illegible]	100
11/29	[illegible]	600

INTERIM REPORT

DMEA-4779, Idm-E1135-mica - JOHNSON PROS.

Operators: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline miles N79°W of Bandana Post Office, Mitchell County, North Carolina.

The shaft has been sunk 24 feet. The keel of the pegmatite plunges out of the shaft at 35° to the east at a depth of 22 feet at the east end of the shaft.

Approximately 150 pounds of block mica up to 4 x 6 inches has been recovered to date.

The Operator plans to turn the shaft and follow the keel down plunge.

A toolhouse, powder magazine and exploder magazine have been constructed. The hoisting rig and compressor are in operation.

Inspected: November 13, 1957

Stanley A. Feitler, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

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INTERIM REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON PROS.

Operators: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline miles N79°W of Bandana Post Office, Mitchell County, N.C.

The Examiners, accompanied by Robert A. Laurence, arrived at the project after the crew had left for the day.

The shaft has been sunk 11 ft vertically. It was collared on pegmatite No. 1 (south). At a depth of 8 ft, the schist separating No. 1 from No.2 (next north) cut out exposing part of pegmatite No.2 in the shaft. At the shaft bottom, 6 ft of pegmatite is exposed in the west end with the footwall not exposed. The hanging wall of pegmatite No. 1 strikes N60°E dip steep south. How much

A small amount of mica of medium good quality was seen. The largest book was approximately 3 x 4 x 1/2 inch thick.

An old hoist has been installed and a compressor is on the job.

Inspected: October 30, 1957.

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DMEA
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DATE	INITIALS	CODE
11-7	gb	220

S. A. Feitler, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

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DMEA
RECEIVED OCT 25 1957
DATE | INITIALS | CODE
10/25 | gb | 220

INTERIM REPORT

DMEA-4779, Idm-E1135(mica) JOHNSON PROSPECT

Operators: Roy Grindstaff and Claude Greene, Spruce Pine, N.C.

Location: 0.5 airline miles N79°W of Bandana Post Office, Mitchell County, N.C.

Work under the contract was started October 10, 1957. A bulldozer was used to prepare the shaft site but soon mired down because protracted rains had soaked the loose overburden. The bulldozer had been freed and was working at the time of this interim inspection.

North of the proposed shaft site and roughly parallel to the two pegmatite bodies shown on the examination map, weathered mica bearing pegmatite was being uncovered by the bulldozer. Three additional pegmatite bodies , 1 1/2, 13, and 19 ft thick were mapped, although less than 10 ft of strike length was exposed. The thickest (13 ft) body is fine-grained and contains only scrap size muscovite. The other two are coarser and contain muscovite in books of strategic size but none larger than 3 x 4 inches were seen.

The shaft site was spotted at a point 15 ft east of that indicated on the examination map. This location is better suited to ~~be~~ topography and to crosscutting the pegmatites to the north under their exposures from the shaft bottom.

The bulldozer excavation was 40 x 50 x 8 ft deep(590 cu. yds) and additional work was to be done to provide drainage. The contract provides for 278 cu. yds. and the excess is at the Operator's expense.

Inspected: Oct. 16, 1957

S. A. Feitler, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

z

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/19	Anderson	600
9/19	Houk	600
9/19	Fulbright	800
9/20	GCS	130
"	Johnson	110
9/24	B	220
		600

600

SEP 23 1957

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

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and Claude Greene
Johnson Mine Property
Mitchell County, North Carolina

Dear Mr. Laurence:

Enclosed are the original and four copies of a proposed short-form contract signed by the Administrator for the Government. It consists of the form, Annex I (1 page), Consent to Lien and Subordination Agreement, Exhibit A (2 pages), and a map. Also enclosed are two extra copies of Annex I, Exhibit A, and the map for Field Team use.

If the proposed contract meets with your approval, present it to the Applicant for execution. Please explain to the Applicant that the contract is a firm commitment to complete the work outlined at the agreed cost. Copies of the executed contract are to be distributed in the usual manner.

If any part of this proposed contract does not have either your approval or that of the Applicant and cannot be amended within your delegated authority, then the original and all copies of the contract and the two extra copies of Annex I, Exhibit A, and the map are to be returned to this office, together with the proposed changes for consideration.

Copies of memoranda dated August 23, 1957, by Mr. Donald R. Irving, USBM, and Mr. W. P. Williams, USGS, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (b6)

Approved:

P. F. Yopes (b6)
Member, Bureau of Mines

N. E. Nelson (b6)
Member, Geological Survey

Enclosures 10

WCAnderson:gad 9/19/57

Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

IN REPLY REFER TO:

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

Memorandum

August 23, 1957

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of field examination report, DMEA 4779 (mica), Roy Grindstaff and Claude Greene, Johnson mine, Mitchell County, North Carolina.

After field examination the examining team report that two fair-sized pegmatites outcrop on the applicant's property. One of the pegmatites at the outcrop is of minable thickness and mica of strategic quality is exposed. The examiners conclude that geologic conditions on the property are favorable enough to warrant DMEA approval of a DMEA contract providing for additional exploration.

I agree with the findings of the examining team and recommend approval of a DMEA contract as outlined in the examining team's report.

W. P. Williams

W. P. Williams

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DMEA
RECEIVED AUG 26 1957

DATE		CODE
8/26	G	220
8/26	H	600

OFFICIAL COPY
RECEIVED 1957
DATE | CODE
8/23 C 220
8/23 wra 600

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

August 23, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Donald R. Irving, Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4779 (mica)

Applicant: Roy Grindstaff and Claude Greene

Name and Location of Property: Johnson Mine Property, Mitchell Co., North Carolina

Date of Field Team Report: 8/13/57

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 8/21/57

Field Team Recommendation: Recommend approval of an exploration contract.

Comments:

1. Two parallel pegmatites are intermittently exposed along a strike length of 165 feet.
2. Field examiners state that one pegmatite of minable width contains considerable strategic mica.
3. This deposit appears to have possibilities for the development of strategic mica.
4. Exploration proposed by applicants is consistent with local practices and in line with unit-cost estimates for other DMEA projects.

Recommendation:

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

Donald R. Irving

Donald R. Irving

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/23	Anderson	600
8/23	Houk	600
8/26	Selfridge	190
"	Johnson	110
"	Mittendorf	100
8/27	P	220
		600

600

AUG 27 1957

Messrs. Roy Grindstaff and Claude Greene
c/o Mr. Claude Greene
Spruce Pine, North Carolina

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and Claude Greene
Johnson Mine Property
Mitchell County, North Carolina

Gentlemen:

Reference is made to your application for Government assistance to explore the subject property for strategic mica.

In order to continue with the processing of your application we will require additional information. We note on the application form that you are the owners of the land; however, on the map you submitted, the title says "Mineral Int." We are assuming that "Int." means interest and therefore wonder about the surface rights. If you do not own the surface rights, it will be necessary that you furnish five copies of a Consent to Lien and Subordination Agreement, signed by the owners of the surface rights. In any event, it is requested that you furnish this office with the book and page numbers of the deed recording in the County Registor of Deed Office.

We also note that the property consists of only five acres. While we sometimes accept such a small acreage if the proposed exploration work is well within the boundaries of the land, we prefer at least ten acres for an exploration project. In this case we will accept the five acre tract as adequate.

Processing of your application will be held in abeyance pending receipt of the above requested information.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WCAnderson:rsi 8/23/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 16 1957

DATE	INITIALS	CODE
8/16	Q	220
		130
8/21	Q	220
8/21	[illegible]	600

August 13, 1957

Memorandum

To: Operating Committee, DMEA, Washington, D. C.

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

Subject: Field Examination Report - DMEA-4779 (Mica)
Roy Grindstaff and Claude Greene, Spruce Pine, N. C.
Johnson Mine Property, Mitchell County, North Carolina

Enclosed are the original and three copies of the subject report, and eight extra copies of the map. Approval of a contract, as outlined in the report, is recommended.

The Applicants state that they sent a plat of the property to the Washington office, but they did not have a copy of it to show the field examiners. We have not seen this plat. The Applicants were able to show the field examiners only the approximate locations of the property corners, hence no tie-in is shown on the map. However, the examiners report that the area of the property is adequate for the proposed exploration.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 12

Reviewed by
DMEA OPERATING COMMITTEE
8-21-57
(date)

On-Site Exam Rpt

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT, REGION V

OFFICIAL FILE COPY
D M E A
RECEIVED AUG 16 1957

DATE	INITIALS	CODE
		130

On

DMEA-4779 (mica) JOHNSON MINE PROPERTY
Mitchell County, North Carolina

By

D. H. Amos and F. G. Lesure, Geologists
U. S. Geological Survey

and

L. E. Shirley and S. A. Feitler
Mining Engineers
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
8/20/57
(date)

August 7, 1957

OFFICIAL FILE COPY
D M E A
RECEIVED AUG 16 1957
DATE | INITIALS | CODE

FIELD EXAMINATION REPORT

On

DMEA-4779 (mica) JOHNSON MINE PROPERTY

Applicants: Roy Grindstaff and Claude Greene, Spruce Pine, N. C.

SUMMARY

Two parallel, concordant pegmatites are intermittently exposed in several surface and near-surface openings along ~~a strike length~~ of 165 feet on this property. One of the bodies is of persistent mining width and contains considerable mica of strategic quality. It is recommended that exploration assistance be granted with some modifications of the Applicants' proposal.

INTRODUCTION

Location

The pegmatite on which exploration assistance is desired on the Johnson Mine Property is along a small tributary of Bandana Hollow 0.5 airline miles N. 79° W. of Bandana Post Office (Micaville Quad., TVA, 1/24,000). It is 0.25 miles S. 30° W. of the Johnson Mine (DMEA-3247) but on a different leased area than the latter mine. Access is available by 0.15 miles of jeep road from the all weather Bandana Hollow Road.

Examination

The examination was conducted on August 7, 1957, Messrs. Claude Greene, Roy Grindstaff, and Alan Parsley accompanied the examiners on the inspection which required about 2½ hours.

Past Operations

The only existing works are surface and near-surface prospect openings along a strike distance of 300 feet. Most are reported to have been made about two years ago. The openings consist of two side hill cuts,

a trench, two short adits, which are now caved and inaccessible, and a short inclined shaft (see attached map). The latter is now filled. Its depth is not known.

A side-hill cut trending N. 30° W. - S. 30° E. which is 125 feet long and averaging 10 feet deep with a maximum depth of 25 feet is the most southwestern opening. The two caved adits are northeast of the cut near the stream (see attached map). A second cut east of the stream is 65 feet long and averages 7 feet deep. It trends N. 50° W. - S. 50° E. A trench 120 feet long by 20 feet wide by 8 feet deep is the most northeastern opening. A filled inclined shaft is present in the bottom of the cut.

Most of the work was done about two years ago by an unknown party from Pennsylvania who is reported to have been prospecting for feldspar. It is not known whether any mica was produced. The short adit in the creek (see attached map) was driven by Mr. Nate Boone in 1955. Some strategic mica is reported to have been sold from this opening.

Availability of Equipment, Supplies, etc.

Mining equipment and supplies are readily available in Spruce Pine, about 11 miles southeast of the property. Experienced mining personnel can be obtained in near-by communities. Power is available along the Bandana Hollow Road 0.15 miles to the north. Adequate water for drilling can be obtained from the creek crossing the property (see attached map).

GEOLOGY

Two parallel, concordant pegmatites are exposed in the openings on this property. The southeastern pegmatite is the most persistent, being intermittently exposed over a strike length of 165 feet. Its average thickness is approximately 5 feet. The body strikes N. 65 - 70° E. and dips about 75° to the southeast and consists of plagioclase, quartz, perthite and muscovite in order of abundance. The amount of perthite increases to the northeast along strike with a corresponding decrease in the other minerals. No zoning is evident. The second pegmatite is 3 feet northwest of the hanging wall of the above pegmatite. It is 5 feet thick in the southwest cut but thins northeastward to about 6 inches in the cut near the center of the property. The body is not present northeast of this cut. This pegmatite has the same attitude and mineralogy as the more persistent one. Country rock northwest of the pegmatites is mica schist. Granitic biotite gneiss occurs southeast of the bodies except for a layer of mica schist about 1½ feet along the footwall of the southeastern pegmatite. Both pegmatite and country rock are semi-weathered.

Mica of strategic quality occurs in both pegmatites. It is more abundant and larger in size in the southwestern exposure of the southeast pegmatite. The mica is flat, clear and ruby in color. Some is cracked and clay-stained.

RECOMMENDATIONS

As considerable mica of strategic quality is present in a pegmatite of minable width on this property, it is recommended that exploration assistance be granted. Modifications of the Applicants' proposal

should be made with which the Applicants are in agreement. Observable evidence indicates exploration should be confined to the southwest end of the southeast pegmatite (see attached map). It is recommended that exploratory work consist of (1) preparing a shaft site, (2) constructing a toolhouse, powder magazine and exploder magazine, (3) sinking a 75-foot shaft, and (4) driving 100 feet of drift and/or crosscut.

ESTIMATED COST

Shaft site preparation:

Excavate by bulldozer an area 50 feet long, 30 feet wide and 5 feet deep.
50' x 30' x 5' = 278 cu. yds. @ $0.30/ cu. yd. $83.00

Construct:

Toolhouse	$75.00	
Powder Magazine	25.00	
Exploder Magazine	15.00	
		$115.00

Sink 75 feet of vertical and/or inclined shaft, 5' x 7' in cross-section, timbered where necessary and containing a separated manway.
(50 shifts) (400 hrs - 2½ months)
1.5 < 1.7/ft/sh = 45 shifts

Labor:

1 - Foreman-Miner @ $1.75/hr.	$700.00	$630.00
1 - Hoistman @ $1.50/hr.	600.00	540.00
1 - Laborer @ $1.00/hr.	400.00	360.00
	1700.00	1530.00

Equipment (rental):

1 - 105 c.f.m. Air Compressor with air hose @ $150/Mo.	375.00	
1 - Gasoline Hoist, single drum @ $50/Mo.	125.00	
1 - Pump, sump @ $40/Mo.	100.00	
1 - Air rock hammer @ $40/Mo.	100.00	
	700.00	562.50

$250/mo

Supplies:

Explosives	$225.00
Gasoline and oil	150.00
Drill steel	131.00
Timber - 3000 b.f. @ $65/M.	195.00
Small tools, pipe, etc.	150.00
Sales tax	25.00
Social Security and Liability Insurance	204.00
	1080.00

($46.40/ft.) Total Estimated Cost of Shaft Sinking $3480.00

3172.50

use $43/ft.

Drive 100 feet of drift and/or cross-cut, 5' x 7' in cross-section, timbered where necessary (50 shifts)(400 hrs - 2½ months)

2.0 < 2.2 ft./sh = 45 shifts

Labor:

1 - Foreman-Miner @ $1.75/hr.	$700.00	630.00
1 - Hoistman @ $1.50/hr.	600.00	540.00
1 - Laborer @ $1.00/hr.	400.00	360.00
	1700	1530.00

Equipment (Rental):

1 - Air Compressor, 105 c.f.m. with air hose @ $150/Mo.	375.00	250/mo
1 - Hoist, gasoline, single drum @ $50/Mo.	125.00	
1 - Rock hammer @ $40/Mo.	100.00	= 262.50
1 - Sump pump @ $40/Mo.	100.00	
1 - Jack leg, air @ $35/Mo.	88.00	
1 - fan, blower-type with air duct line	50.00	
	838.00	

Supplies:

Gasoline and oil	185.00
Explosives	275.00
Drill steel	150.00
Timber - 2000 B.f. @ $65/M	130.00
Small tools, pipe, etc.	115.00
Sales tax	26.00
Social Security and Liability Insurance	204.00
	1085.00

($36.23/ft) Estimated Cost of Drifting $3623.00

use $32/ft. → 3177.50

Total Estimated Cost of Project $7301.00

August 7, 1957.

D. H. Amos and F. G. Lesure, Geologists, USGS
L. E. Shirley and S. A. Feitler, Mining Engineers
U. S. Bureau of Mines

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/18	Anderson	600
7/19	Houk	600
7/22	Martin	130
7/22	Lamb	130
7/22	Kiilsgaard	130
"	[illegible]	110
"	Mittendorf	100
		220

600

JUL 22 1957

Messrs. Roy Grindstaff
and Claude Greene
Spruce Pine, North Carolina

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and Claude Greene
Johnson Mine Property
Mitchell County, North Carolina

Gentlemen:

Your 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.

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:rsi 7/18/57
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
7/18	Anderson	600
7/19	Houk	600
7/22	Martin	130
"	Johnson	110
"	Stotteadoff	100
7/22	P.K.	220
		600

600

JUL 22 1957

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

Re: Docket No. DMEA-4779-Mica
Roy Grindstaff and Claudo Greene
Johnson Mine Property
Mitchell 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 July 8 and 17, 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.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (24B)

Approved:

Frank D. Lamb (24B)
Member, Bureau of Mines

Thor H. Kiilsgaard (24B)
Member, Geological Survey

WCAnderson:rsi 7/18/57
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.

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 18 1957

DATE	INITIALS	CODE
7-18	C	220
7/18	Hock	600

July 17, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: W. F. Dietrich, Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4779 (mica)

Applicant: Roy Grindstaff and Claude Greene

Name and Location of Property: Johnson Mine Property, Mitchell County, North Carolina

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 7/5/57

Comments:

1. Applicant claims this prospect was worked briefly two years ago and that some good mica was produced.

2. Mica is visible in outcroppings.

3. Exploration proposed by applicants is consistent with local practices and in line with unit-cost estimates for other DMEA projects.

4. Although it would be desirable for the applicant to furnish more complete information, it appears that a visit by an examiner would furnish more useful data.

Recommendation:

It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

W F Dietrich
W. F. Dietrich

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 9 1957

DATE	INITIALS	CODE
7/9	P.L	220
7/9	wra	600

IN REPLY REFER TO:

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

July 8, 1957
Re: DMEA 4779
Roy Grindstaff and Claude Greene
Johnson Mine
Mitchell County, North Carolina
$7,800.00 - Mica

Memorandum

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

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

Subject: Review of application

The applicants request assistance in doing further exploratory work in an old mine, by sinking 100 feet of shaft and drifting 80 feet.

Mica is said to have been produced on the property.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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

July 5, 1957

Mr. Roy Grindstaff
Mr. Claude Greene
Spruce Pine, North Carolina

Subject: DMEA 4779

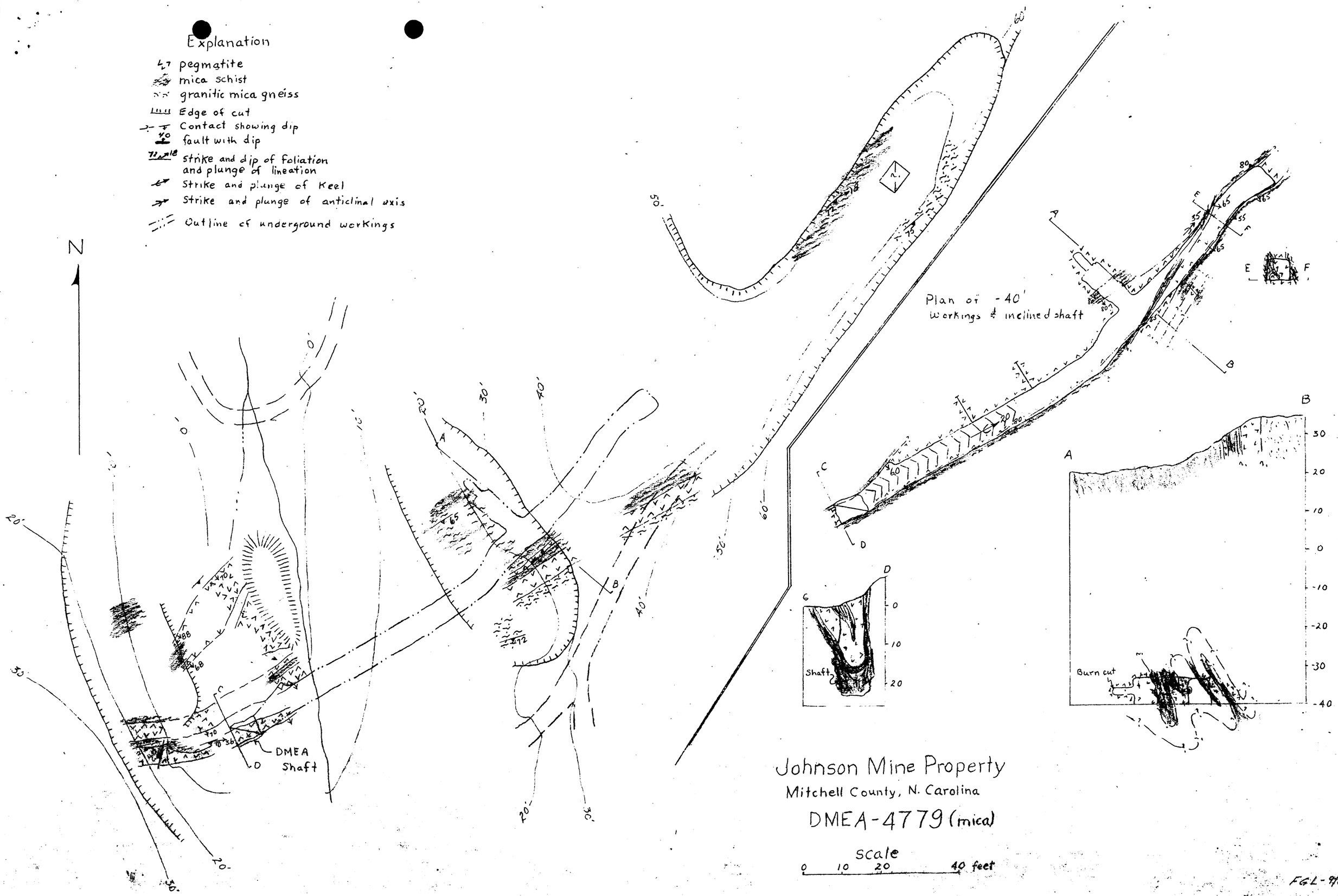
Gentlemen:

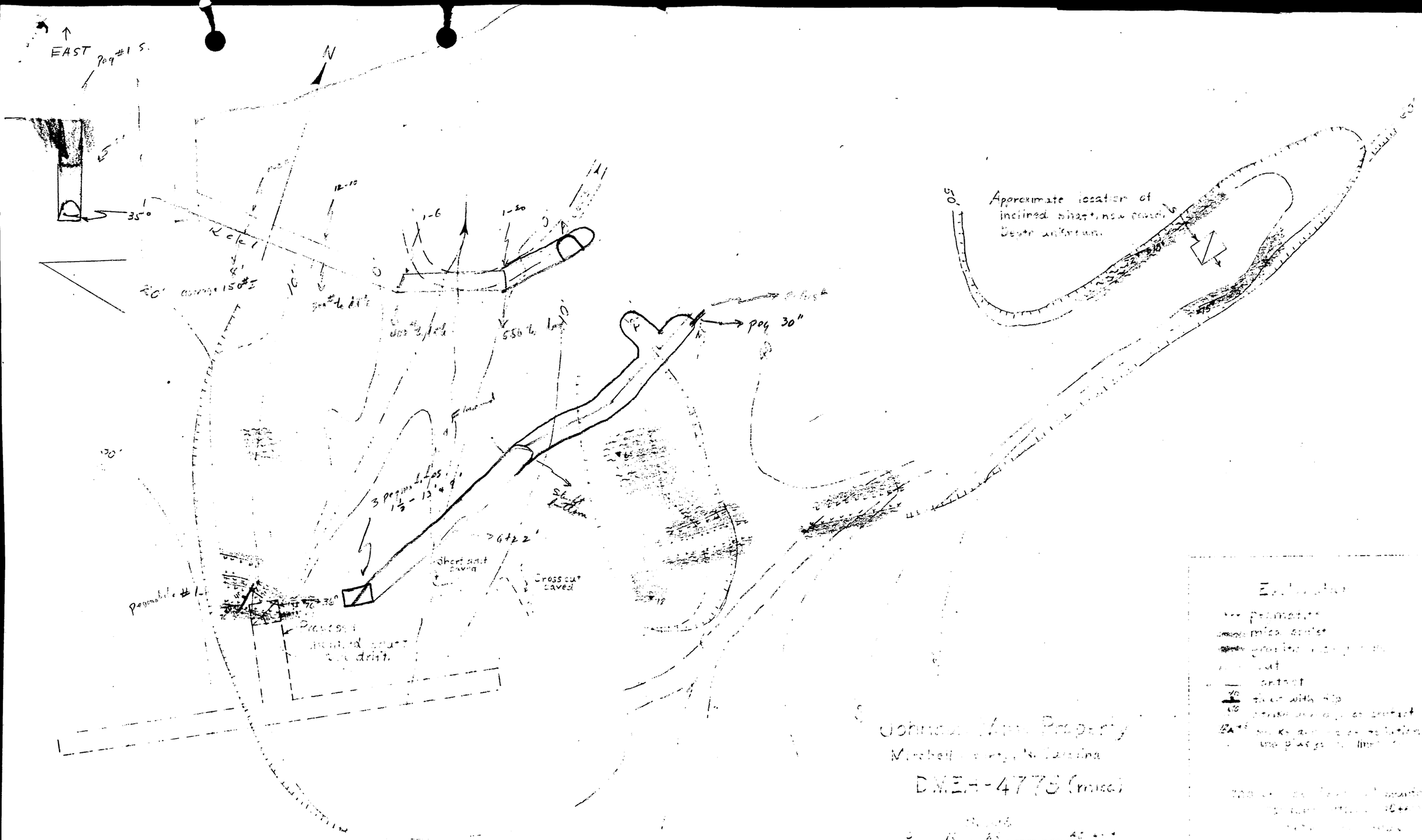
Your application for exploration assistance, dated July 2, 1957 submitted to our office at Washington, D. C. has been assigned Docket Number DMEA-4779 and referred to the Non Metallics Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

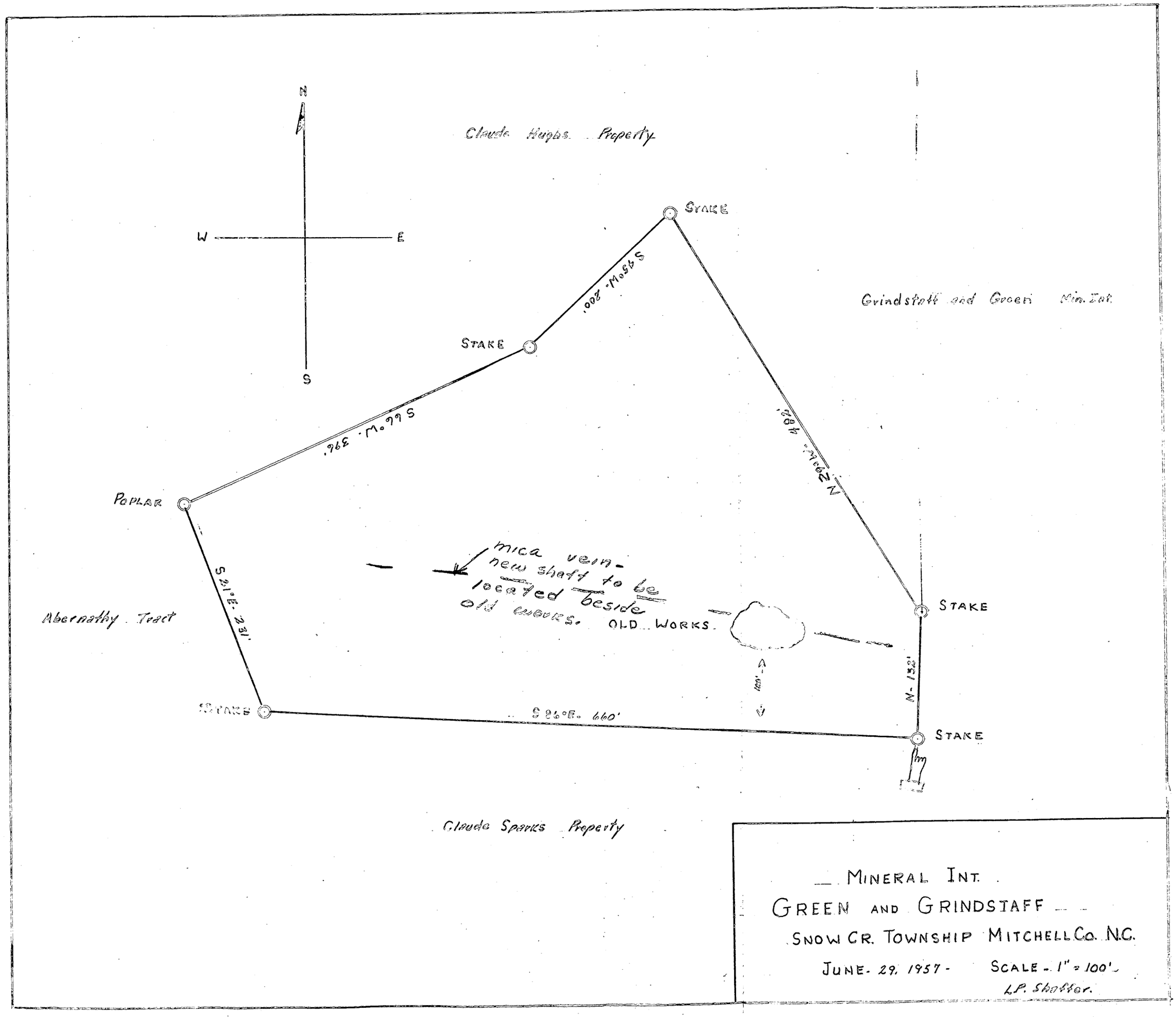
Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region V


Explanation
pegmatite
mica schist
granitic mica gneiss
Edge of cut
Contact showing dip
fault with dip
strike and dip of foliation and plunge of lineation
Strike and plunge of Keel
Strike and plunge of anticlinal axis
Outline of underground workings
N
Plan of -40' workings & inclined shaft
DMEA Shaft
Shaft
Burn cut
Johnson Mine Property
Mitchell County, N. Carolina
DMEA-4779 (mica)
scale
0 10 20 40 feet
FGL-9/58


EAST
N
Approximate location of inclined shaft, now caved. Depth unknown.
pog 30"
Shaft bottom
Cross cut caved
Processor
Johnson Farm Property
DME-4770 (mica)

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 10 1987



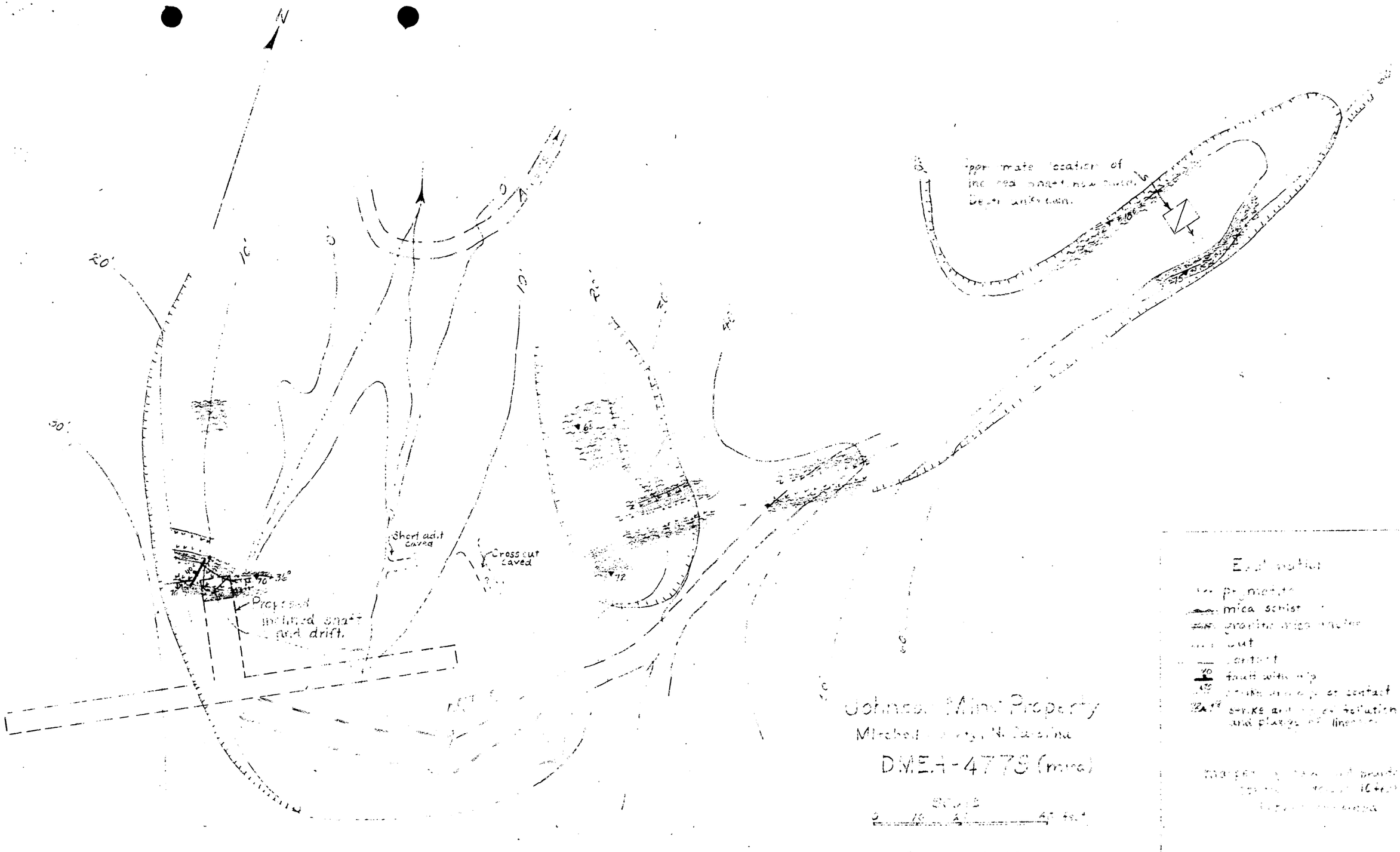
MINERAL INT.

GREEN AND GRINDSTAFF

SNOW CR. TOWNSHIP MITCHELL CO. N.C.

JUNE- 29, 1957 - SCALE - 1" = 100'

L.P. Shaffer.


N
Approximate location of
increased inclined new shaft
depth underground.
Short adit
caved
Cross cut
caved
Proposed
inclined shaft
and drift.
Johnson Mine Property
Mitchell County, N. Carolina
D.M.E.-4778 (mine)
7 August 1957
Explanation
pegmatite
mica schist
granite mica gneiss
vein
contact
fault with dip
strike and dip of contact
strike and dip of foliation
and plunge of lineation
Magnetic bearings of quartzite compass
traverse
Scale: 1 inch = 16 feet
Topographic map