IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE E-1053 IMEA NO. 4500

Application (Denied
(Withdrawn
(After disposition, delete items not applicable)

Contract
✓(Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Closing Letters
Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
✓Report of Review
✓Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
✓Contract with all exhibits and annexes
✓Owner's Consent to Lien
Subordination Agreement
✓Leases and assignments of leases
✓Application and attachments
(3) Envelope for maps

Right Side

Project summary
✓Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

✓Final Field Team Report (Tab)
✓Operator's Final Report
(2R) ✓Interim Reports
(2R) ✓Operator's monthly reports and all attachments (latest on top)
✓On-site Exam Report(s) (Tab)
(4) ✓Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order)
Interim Summary Reports by W. O. Engineers

Right Side

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

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

R.C.S.

9775

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/3	Anderson	600
4/3	Houk	600
4-3	Chambers	800
4/4	Selfridge	120
4/4	Johnson	110
"	Strickenberg	100
4/6	C	220
		600

600

APR 7 1958

Mr. Glenn Buchanan

Bandana, North Carolina

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina
Contract No. DMm-E1053

Dear Mr. Buchanan:

Reference is made to your terminated 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,

R. O. Whitesides (for)

Administrator

WCAnderson:rsi 4/3/58
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Operating Committee
Mr. and Mrs. George B. Howell

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/3	Anderson	600
4/3	Houk	600
4-3	Chambers	800
4/4	Selfridge	120
"	Olsen	110
"	Butterworth	100
		220

600

Mr. and Mrs. George B. Howell APR 7 1958

Bandana, North Carolina

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1053

Dear Mr. and Mrs. Howell:

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

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on October 6, 1956.

Sincerely yours,

J. O. Mittendorf (for)

Administrator

Enclosure

WCAnderson:rsi 4/3/58
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Operating Committee

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/3	Anderson	600
4/3	Hirsch	600
		110
		100
		220

600

Project Summary Report

April 1, 1958

By: Walter C. Anderson, Division of Nonmetallic Minerals

1. Docket No. DMEA-4500-Mica
Contract No. Idm-E1053
Chestnut Branch Prospect
Mitchell County, North Carolina

Application: Form MF-103(April 1952) received October 11, 1956.
Work proposed by Applicant: 50 feet of shaft and 100 feet of drifts for which $7,450.10 was requested.

Operator: Glenn Buchanan
Bandana, North Carolina

Operator's property rights: Five year mining lease on the George B. Howell Property consisting of 40 acres, dated October 8, 1956. Consent to Lien and Subordination Agreement October 6, 1956.

2. Contract: Form MF-200A(April 1956), dated January 17, 1957.
Work authorized:

Construction - Toolhouse, powder and exploder magazine	$116.00
60 feet of shaft @ $45.50/ft.	2,730.00
100 feet of drift and/or crosscut @ $34.50/ft.	3,450.00
Estimated total cost of project	$6,296.00
Government participation @ 75%	$4,722.00

Amendments - none.
Work completed:

Construction - Toolhouse, powder & exploder magazine	$116.00
60 feet of shaft @ $45.50/ft.	2,730.00
Total accepted cost	$2,846.00
Government participation @ 75%	$2,134.50

Work began on January 28, 1957 and was terminated by mutual consent before completion on June 10, 1957.
Field Team Final Report received January 23, 1958. Operator's Supplemental Final Report received September 20, 1957. Sales of mica amount to $1,685.62, royalty paid $84.28, which accounts for all the mica produced. Royalty due the Government - none.
No equipment purchased under contract.

3. Audit: Report of Review issued September 23, 1957.

Total accepted cost	$2,846.00
Government participation @ 75%	$2,134.50

4. Certification of Discovery - none issued.

5. Comments:

How Conducted: All of the work in which the Government participated was acceptable.

Operation: Good.

Engineering: Reporting by Operator was satisfactory.

Geologic Premise: The exploration work proved that a pegmatite, with good mineralogic and textural environment, had no lateral extent.

Geologic Criteria upon which work was based:

1. Pegmatite: Emplaced along the crestal portion of an overturned plunging anticline. Asymmetrical dragfolding and crenulations along margins are common. Three to five feet thick, composed of oligoclase, quartz, and minor perthite and muscovite. Wall rock is a hard unweathered biotite-muscovite gneiss.

2. Mica: Ruby, flat, and essentially free from mineral staining, books average 2 by 2 inches across with a maximum size of 4 by 6 inches.

Geologic Criteria developed during project:

1. Pegmatite: Emplaced along the crest of a contorted overturned fold, with a width of 18 feet at the surface to 9 to 10 feet at the incline bottom. Has no lateral extent. Consists of a hetrogeneous mixture of medium grained plagioclase, quartz, muscovite, some perthite, garnet, and apatite. Wall rock is an unweathered, contorted, quartz-muscovite-biotite schist and gneiss.

2. Mica: Flat, clear, light brownish red books up to 8 by 10 inches across. Recovery of sheet out of block estimated at 3%. Estimated reserve of 2877 pounds of block with a present-day value of about $1150.

Future Possibilities: Not extensive enough to warrant an economic mining operation.

Recommendations: The Division of Nonmetallic Minerals and the Commodity Members of the Bureau of Mines and Geological Survey concur in the Field Team's recommendation that this project should not be certified.

Walter C. Anderson

Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:rsi 4/1/58
Copy to: Admr. R. File
Mr. Houk

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Glenn Buchanan

Bandana, North Carolina

pertaining to Exploration Project Contract No. Idm-E1053, DMFA No. 4500, for the months of February 1957 to April 1957, inclusive, covering a project for the exploration of mica on property, known as the Chestnut Branch Mine located in Mitchell County, North Carolina.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed 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 following reason:

all of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$2,846.00
Exceptions:		
Prior to this review	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$2,846.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Two thousand one hundred thirty-four and 50/100 Dollars

$2,134.50

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

E. D. Talbert

E. D. Talbert, Auditor

September 23, 1957

Government's Co[illegible]

Long
Dwyer
"Appd. Sol. Off."
Hart
Selfridge
Chambers
Johnson

TERMINATION AGREEMENT

It is agreed this 10th day of June, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Glenn Buchanan, hereinafter called the "Operator," parties to Exploration Project Contract Idm-E1053 (Docket No. DMEA-4500), dated January 17, 1957, hereinafter called the "Contract," that:

1. Effective May 15, 1957, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the fixed unit costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. All rights of the Government provided for in the Contract with respect to a certification of discovery or development, percentage royalty and liens for its payment, records, audits, and recovery of any overpayment, are preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By C Mitteudorf
Administrator, Defense Minerals
Exploration Administration

Glenn Buchanan
Glenn Buchanan

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE

Docket Copy

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 30 1957

DATE	INITIALS	CODE

MF-200A
(Rev. April 1956)

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*
4500	Mica	1053	Mitchell	North Carolina

It is agreed 17 JAN 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Glenn Buchanan

whose mailing address is Bandana, 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 MAR 1 1957, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within eight 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 $6,296.00. The Government will contribute 75 percent of the fixed unit cost of the work performed, not exceeding $4,722.00, 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: Royalty as set forth in the lease.

(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: Consent to Lien and Subordination Agreement

(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.

Glenn Buchanan

GLENN BUCHANAN
(Operator)

THE UNITED STATES OF AMERICA

By C O Mitteendorf

Administrator, Defense Minerals Exploration Administration

By .....

.....

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

Indritz 1/8/57
Thomas
Legal Sol. Off.
Hopson
Houk
Chambers
Selfridge
Yo Johnson

OFFICIAL FILE COPY
D M E A
RECEIVED JAN 30 1957

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
GLENN BUCHANAN
DOCKET NO. DMEA-4500

ANNEX I

The land referred to in Article 2 of the Contract is a 40-acre tract held by the Operator under a Mineral Lease dated October 8, 1956, from George B. and Erah Howell, recorded in Book 86, page 57, in Office of Register of Deeds of Mitchell County, North Carolina, and is more particularly described as follows:

> Beginning on a white oak on the bank of Toe River and running North 52° East 34 poles to a Locust; thence South 52° East 38 poles to a double Hickory; thence North 68 poles to a stake in Mirs Beaver line; thence West 80 poles to a Spanish oak on the bank of the river; thence crossing the river South 45° West (26 poles scaled on map) to a Big Rock at the Fish Trap; thence South 25° West 40 poles to a Big Rock on the Chestnut Branch; thence South 65° East (86 poles scaled on map) recrossing the river to the beginning. Containing (40) acres more or less.

The prospect is 0.77 airline miles S 74° W of Bandana, Mitchell County, North Carolina, about 500 feet due south of the Morris Putnam Mine.

The Consent to Lien and Subordination Agreement signed by the lessors under date of October 6, 1956, is attached.

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

F[redacted]rnment's Use Only
EXPLORATION PROJECT CONTRACT
Operator Glenn Buchanan
Docket No. DMEA- 4500
Contract No. Idm-E 1053
Contract Date 17 JAN 1957

RECEIVED
OCT 11 1956

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~~

In a Mineral Lease dated October 6th, 1956 and recorded in Book 86 Page No. 57, in the Register of Deeds office for Mitchell County, North Carolina.

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 _____, and recorded in Book _____, Page _____, 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: None (State "None" or "See Annex No.____")

Dated this 6th day of October, 195_.

✓ George B. Howell [Seal] Sanford, N.C. [Address]

✓ Sarah M. Howell [Seal] Sanford, N.C. [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]

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 30 1957

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
GLENN BUCHANAN
DOCKET NO. DMEA-4500

EXHIBIT A

Description of the Work

The approximate location of the work is shown on the maps entitled, "Map No. 1 Chestnut Branch Prospect, Mitchell County, N. C. DMEA-4500 (Mica)" and "Map No. 2 Chestnut Branch Prospect, Mitchell County, North Carolina DMEA-4500 (Mica)" attached hereto and made a part hereof.

The work consists of the following:

1. 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 2½ feet.
   (c) An exploder storage magazine, minimum dimensions 2 feet by 1½ 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.

2. Sink a two-compartment inclined shaft a distance of 60 feet.

3. Drift and/or crosscut from the shaft a distance of 100 feet.

All work shall be timbered as necessary.

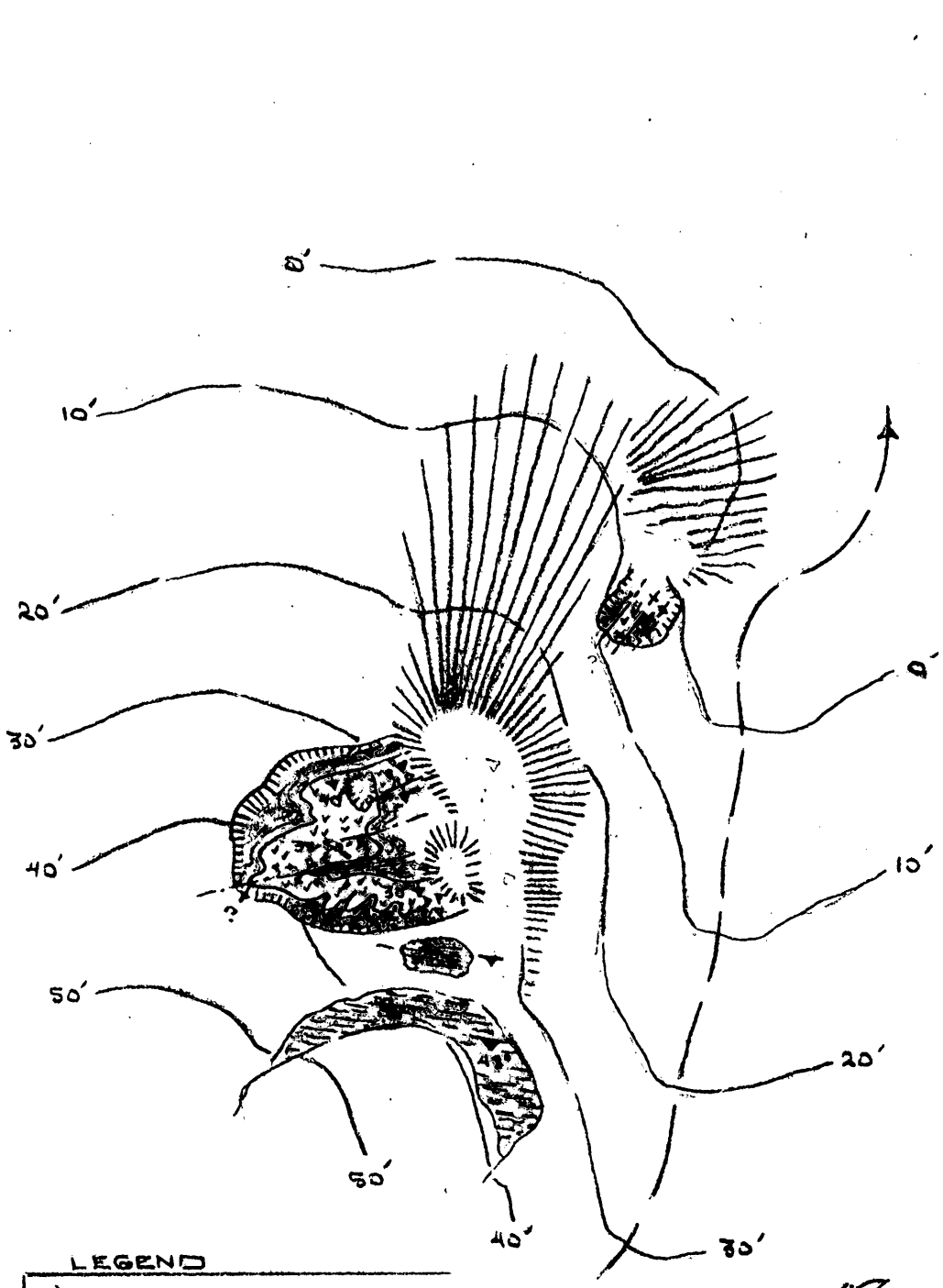
The shaft, drift and/or crosscut shall have minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

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

Fixed Unit Costs

1. Construct			
Toolhouse	$75.00 1/		
Powder Magazine	25.00 1/		
Exploder Magazine	16.00 1/	$ 116.00	
2. Sink shaft 60 feet @ $45.50/ft.		2,730.00	
3. Drive drift and/or crosscut, 100 feet @ $34.50/ft.		3,450.00	
Estimated Total Cost of Project			$6,296.00
Government Participation @ 75%			$4,722.00

1/ Completed work constitutes the unit.



LEGEND

- MICA-BEARING PEGMATITE
- BIOTITE-MUSCOVITE GNEISS
- EXCAVATION
- DUMP

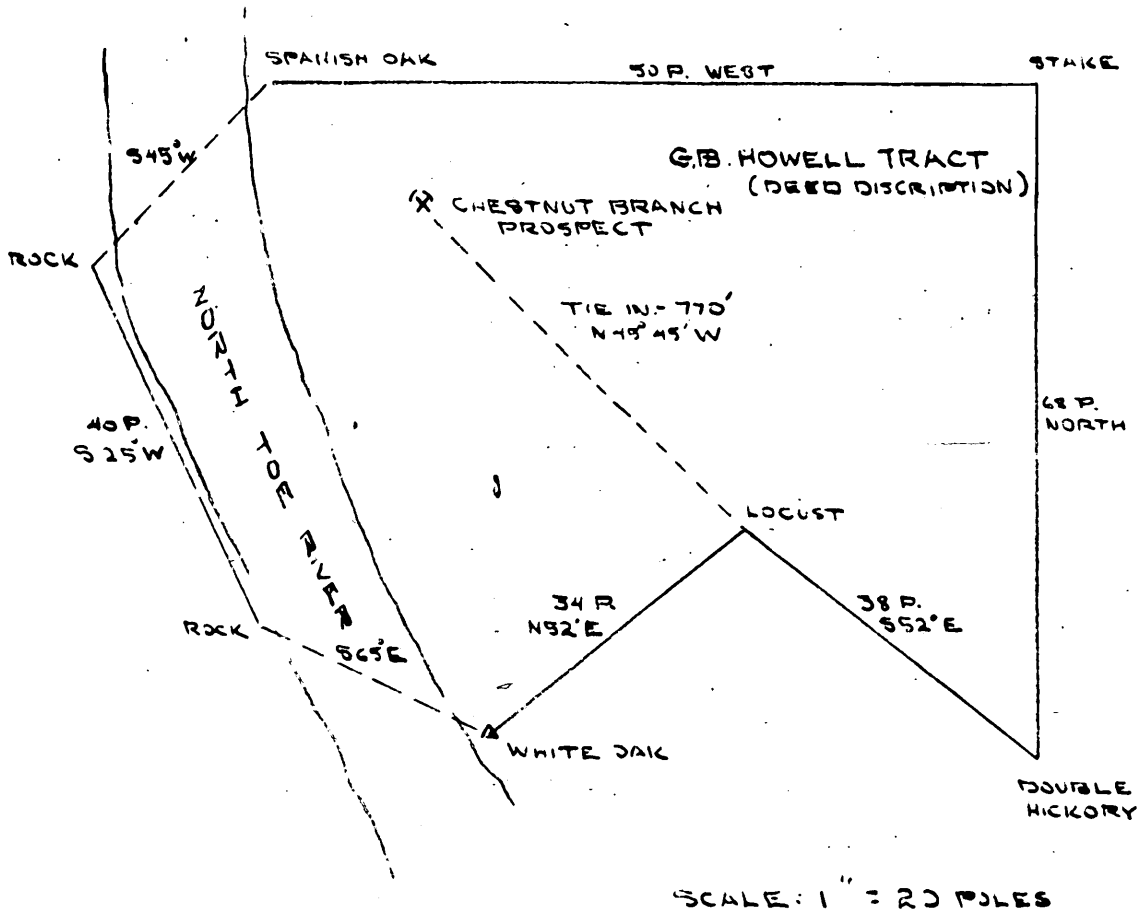
Map No 1

CHESTNUT BRANCH PROSPECT
MITCHELL COUNTY, N.C.
DMEA - 4500 (MICA)

SCALE: 1" = 20'

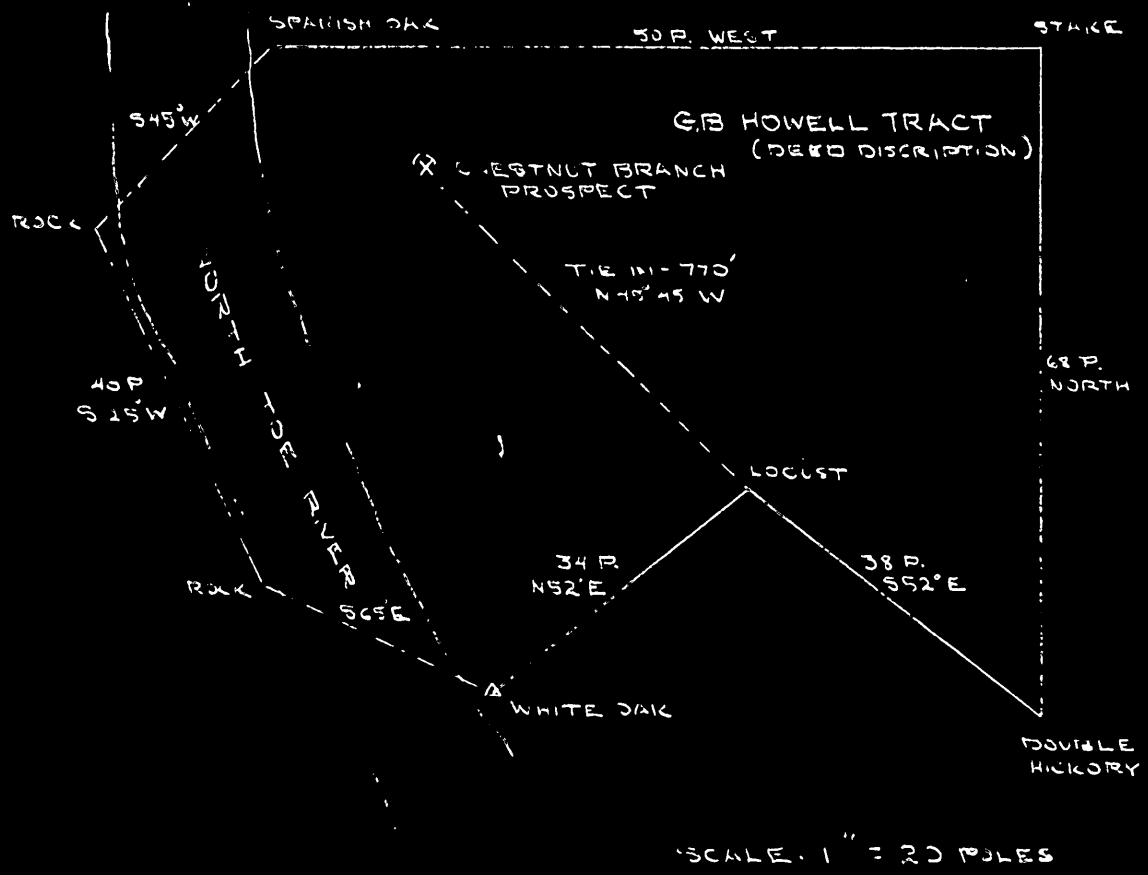
SCB 11/66

[illegible]



MAP No. 2
Chestnut Branch Prospect
Mitchell County, North Carolina
DMEA-4500 (Mica)

RECEIVED
JAN 30 1957
D.M.E.A.



MAP No. 2
Chestnut Branch Prospect
Mitchell County, North Carolina
DMEA-4500 (Mica)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OCT 11 1956

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

Not to be filled in by applicant

Docket No. 4500
Metal or Mineral Mica
Date Received 10-11-56
Estimated Cost $ 7450.10
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Glenn Buchanan, (Individual)
Bandana, North Carolina.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Being the (40) acre tract of land located in Snow Creek Township, Mitchell County, State of North Carolina, belong-to George B. Howell and wife, Erah Howell of Bandana, N.C. as fully described in Deed dated Feb. 1st, 1944 and recorded in Book 103, Page 146, In Register of Deeds office for Mitchell County, N.C.

(*b*) State any mine name by which the property is known. Chestnut Branch Mica Prospect.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee of land (5) Year Lease

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

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. None

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

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

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

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

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

16—66551-1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other .....

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ....., 195...

Glenn Buchanan
(Applicant)

By .....

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

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

Re: Glenn Buchanan,
Bandana, North Carolina.
-re-
Chestnut Branch Mica Prospect.
Mitchell County, N.C.

SUPPLEMENT SHEET No.1.
- re-
FORM MF-103, (Revised)

Section 4-(a) PHYSICAL DESCRIPTION.

The mica prospect hereinafter referred to as the" Chestnut Branch Mica Prospect" is located on the property of a George B. Howell, in Bandana vicinity, Snow Creek Township, Mitchell County, N.C. about 3/4 mile S.W. of the Bandana Postoffice. It lys on the West side of a prominient ridge being about midway up the said ridge some 2000 ft SW of the George B. Howell residence. At the present time there is an open shaft approximately 6' X 10' around the top rim of the shaft and about 10 feet deep. At the bottom of the shaft it is about 4' X 6' in diamiter. There is no other visible signs of previous mining having been done near the prospect. The prospect is not being worked at the present time thus no production. The last known work was done about 1954 when it was worked a short while by parties unknown to the applicant. There was said to have been mined, recovered and sold about $ 400.00 worth of mica from the prospect by the operators at that time. Ruby sheets of mica measuring 4" X 6" was said to have been worked from the crude mine run mica. The color of the mica is light ruby and of good grade. The site of the prospect is readily acessible for inspection and can be reached by leaving N.C. State highway # 80, at a point near the residence of C.A. Sparks and going SW 3/4 mile on the George B. Howell road, thence down the hollow on a new road to with in 50 feet of the prospect in dry weather. C.A. Sparks lives on N.C. Highway approximately 1/4 mile south of the Bandana, N.C. Postoffice. Applicant is the Lessee of this property.

Section 4-(b) CURRENT & PAST PRODUCTION RECORD

There is no current production from the prospect and the last known work at the prospect was done in 1954. From reliable sources and from information secured from the land owner, about 500 lbs of crude mica was recovered by the workers in 1954 and about $ 400.00 worth of good ruby mica sold off this property by the operators mining the prospect. Some of the sheet mica was said to have cut 4"X 6" patterns.

Section 4-(c) GEOLOGIC DATA OF PROSPECT

The main pegmatite body that will average about 4 ft. across strikes a course roughly NE-SW, with the dip of the body to the South-Southeast probably dipping as much as 35° with the footwall slate. As there are some muck in the bottom of the shaft and some surface water it is impossible to determine the exact pitch of the vien at the lower level but from visible indications, the dip of the vein will average 35° to 40° S-SE. The rock formation is hard the vein being composed of some tough Kaolinized feldspar, large pods of hard spar, some granite and streaks of quartz in the interior of the shaft visible. A very permanent quartz core is said to be associated with the mica bearing streak at the bottom of the 10 ft shaft. Some small weathered books of mica, granite, slate, feldspar & quartz are visible in the dump.

Re: Glenn Buchanan,
Bandana, North Carolina.
-re-
Chestnut Branch Mica Prospect.
Mitchell County, N.C.

SUPPLEMENT SHEET No. 2.
-re-
FORM MF-103, (Revised)

Section 4-(d) ACESSIBILITY OF PROJECT.

The proposed project is located 50 feet below the SW end of a new bulldozed road which leads off the George B. Howell road near Howells residence. To reach the site of the project from either Spruce Pine, ?or Bakersville, N.C. take N.C. State Highway # 26 to intersection of No. 26 with the Mine Creek Rd. on top of a hill approximately 3½ miles South of Bakersville, N.C. at M.E. (Mose) Buchanan's store. Take the Mine Creek Rd. SW down the hill to the intersection of the Mine Creek Road With N.C. State Highway # 80. Turn left up the hill on # 80 and go 3 miles to the Bandana Postoffice & store. Pass the store and go about ¼ mile on # 80 to the residence of Mr. C.A. Sparks. At this point leave # 80 and take the George B. Howell dirt road down the hill about ½ mile to the Howell residence. Take new bulldozed road down hill to prospect site about 2000 feet to prospect site. (Note) The roads from the point where you leave the paved # 80 highway at C.A. Sparks residence is rough and down steep grade but can be traveled O.K. in average car if the ground is dry. DONT ATTEMPT it in wet weather.

Section 4-(e) MANPOWER, SUPPLIES, MATERIALS, Ects.

An ample supply of thoroughly experienced mica miners are available to carry on the project. Ample materials, supplies, & equipment are available at Spruce Pine, N.C. which is approximately 16 miles from project site. A power line runs within 2000 ft of project and ample supply of water necesarry for mining purposes is mear by to project. The nearest residence is located about 2000 ft from the proposed project.

Section 5-(b) PROPOSED EXPLORATORY WORK TO BE DONE.

It is proposed to start in the present bottom of the 10' open shaft and drive this shaft down with the pitch of the vien to a depth of 50 Feet making the total depth of the shaft some 60 ft deep from the extreeme top level of the present shaft. A drift would then be driven 50 feet each way,(100 ft) from the bottom of the 60 Ft shaft following the run of the vien, SW-NE., Thus 50 ft down shaft & 100 ft driftage with the vien.xxx

Section 5-(d) MINING QUALIFICATIONS OF WORKERS EMPLOYED.

It is not the entention of the applicant to take but little if any active part in operation of the proposed project. Only thoroughly experienced mica miners will be employed who can show at least (2) or more actual mining experience. The Supervision of the project will be directly under supervision of Mr. Boyd Howell, who has around 20 years experience in Mica mining.

Section 6-(a) INDENPENDENT CONTRACTS.----------NONE.

Re: Glenn Buchanan,
Bandana, North Carolina.
-re-
Chestnut Branch Mica Prospect
Mitchell County, N.C.

SUPPLEMENT SHEET No. 3.
-re-
MF-Form 103, (Revised)

Section 6-(b) LABOR, SUPERVISION & CONSULTANTS.

No.	Class.	Hr. Rate	Wkly Rate	Mthly Rate	20 Wk Period 800 Wkng Hrs/
(1)	Supervisor	$ 1.75	$ 70.00	$ 280.00	$ 1400.00
(1)	Drill Optr.	1.50	60.00	240.00	1200.00
(1)	Hoist Optr.	1.25	50.00	200.00	1000.00
(2)	Muckers @ $ 1.00 ea.	2.00	80.00	320.00	1600.00
(5)	Man Crew	$ 6.50	$260.00	$1040.00	$ 5200.00

Section 6-(c) OPERATING MATERIALS & SUPPLIES---(Purchase Basis)

Unit.	Items.	No. Units	Unit Cost	Est cost period
Gals.	Gasoline	650	$ 0.22	$ 143.00
Qts.	Motor Oil	180	0.20	36.00
Ea.	Line Lubricator	1	20.00	20.00
Lft.	1" iron pipeing	150	0.15	22.50
Lbs.	Dynamite	600	0.25	150.00
Ea.	6' El. Exploders	450	0.14	63.00
Lft.	Air Hose	50	0/60	30.00
Lft.	Tungn Drill Steels	24	6.40	153.60
Ea.	El. Blast Battery	1	25.00	25.00
Lft.	El. Lead line	100	.08	8.00
Ea.	Mine Bucket	1	5.00	5.00
TOTALS				$ 656.10

Section 6-(d) OPERATING EQUIPMENT---(Rental Basis, Monthly)

Unit.	Items	No. Units.	Monthly Unit Cost	Period Cost
Ea.	Air Compressor	1	$ 125.00	$ 625.00
Ea.	Jackhammer Drill	1	50.00	250.00
Ea.	1 Ton Gas Hoist Eng.	1	35.00	175.00
TOTALS		3	$ 210.00	$ 1050.00

Section 6-(f) NEW BUILDINGS & INSTALLATIONS--(Purchase Basis)

Unit.	Item.	No. Units.	UNIT COst.	Period Cost
1	Tool & Machine House	1	$ 75.00	$ 75.00
1	Powder Magazine	1	25.00	25.00
1	Ex Ploder Magazine	1	15.00	15.00
TOTALS		3	$115.00	$ 115.00

Section 6-(g) MISCELLANEOUS EXPENSES.

Federal Payroll Taxes @ 2% of $ 5200.00 payroll---	$ 104.00
Employers Liability Ins. (5 Man Crew) Estimated	150.00
Employee's Group Ins. Estimated----------	$ 175.00
TOTALS----------	$ 429.00

Re: Glenn Buchanan,
Bandana, North Carolina.
-re-
Chestnut Branch Mica Prospect
Mitchell County, N.C.

SUPPLEMENT SHEET No. 4.
-re-
FORM MF-103, (Revised)

Section 6-(h) CONTINGENCIES--------None.

Section 7-(b) EXPLINATION OF APPLICANTS 25% PARTICIPATION COSTS.

The Applicant will meet his 25% of the total estimated costs of the proposed exploratory project by furnishing all hand tools and paying $ 1862.53 of the estimated $ 5200.00 cost of Labor & Supervision for the 20 week project period.

GENERAL SUMMARY OF PROJECT EXPENSES AND
THE GOVERNMENT & OPERATORS PARTICIPATION

TOTAL ESTIMATED COSTS OF PROJECT, (20WEEK PERIOD)aa-$ 7450.10
APPLICANTS SHARE OF ABOVE @ 25% OF ESTIMATED COSTS--- 1862.53
TOTAL AMOUNT OF LOAN SOLICITED FROM GOVERNMENT, 75%-- 5587.57

Respectfully submitted,

Glenn Buchanan
Applicant & Lessee
Bandana, North Carolina.

X

NORTH CAROLINA.

MITCHELL COUNTY.

RECEIVED
OCT 11 1956

A MINERAL LEASE & AGREEMENT

This Indenture made this the 8 day Of October, 1956, by and between George B. Howell and wife, Erah Howell, of Mitchell County State of North Carolina, as the Parties of the First Part, and here after known as the Lessor's, and Glenn Buchanan, of Mitchell County State of North Carolina, as the Party of the Second Part, hereafter known as the Lessee:

WITNESSETH, That the Parties of the First Part, in consideration of ONE DOLLAR in hand paid to them by the Party of the Second Part, and in futher consideration of the agreement hereinafter contained, on the part of the Party of the Second Part to be performed, hereby bargains, leases and grants to the Party of the Second Part, and to his heirs and assigns, for a period of (5) FIVE YEARS from the date of this agreement, the following described real property, for mining purposes, in the County of Mitchell, State of North Carolina, to wit:

A certain tract or parcel of land in Snow Creek Township, in Mitchell County, State of North Carolina, adjoining the lands of A.W. Willis,et als, bounded as follows:

Tract No.1.

This

Begining on a white oak on the bank of Toe River and runs North 52' East 34 poles to a Locust; thence South 52' East 38 poles to a double Hickory; thence North 68 poles to a stake in Mirs Beaver line; thence West 80 poles to a spanish oak on the bank of river; thence crossing the river South 45' West to a Big Rock at the Fish Trap; thence South 25' West 40 poles to a Big Rock on the Chestnut Branch; thence South 65' East recrossing the River to the begining. Containing (40) acres more or less.

Tract No. 2.

Begining at the Public Road, adjoining the lands of M.H. Putman, S.J. Silvers and the Public road and runs a West Course with Putman's and Silver's line fence to a stake in the Chestnut Orchard, a straight line; thence turns a Southwest course to a Chestnut tree; thence back to the branch a North course; thence a Southwest course to Dock Willis's line; thence with Silvers wire fence the way the road was; thence back with the lower side of the road to the Public Road. Containing (14) feet in width through the said land which is a lawful cartway

Access Road

Being the same tract of land conveyed by Sam Gouge and wife, Lola Gouge, to C.A. Harrison and wife, Sena Harrison, by deed dated July 20th, 1937 and recorded in the office of Register of Deeds for Mitchell County, N.C. in Deed Book No. 96, at Page No. 160. Also in a Deed from C.A. Harrison and wife, Sena Harrison, to George B. Howell and wife, dated February 1st, 1944 and recorded in Deed Book No. 103, on Page No. 146, in the office of the Register of Deeds in Mitchell County, N.C.

TO HAVE AND TO HOLD the said lands to them,for mining purposes, the said
poses, the said Glenn Buchanan, his heirs or assigns for the aforesaid period of (5) YEARS upon a full compliance with the conditions of this instrument, for the purpose, and with the right to dig, and search for and obtain any kind of minerals, metals or fossils, and more particularly muscovite mica, and to conduct the same to any extent the said Party of the Second Part may desire.

And it is also agreed by the Party of the Second Part that no unnecessary damage is to be done to the lands herein leased during the period of said lease, but the said Party of the Second Part shall have the right to take from said leased lands any wood or timber necessary to carry on said mining operations or to erect buildings on said lands. (Timber of high market value excepted). And the Party of the Second Part is to have right-of-way of ingress and egress to any and all mining projects operated by him during the life of this mining lease. The said party of the Second Part hereby agrees to pay to the said Parties of the First Part, or to thier heirs or assigns, a royalty rental of (1/8) ONE EIGHTH on all mica mined and sold off the property covered by this lease, for the use of the said lands for the aforesaid period of (5) FIVE YEARS only; payable as follows: payable on computation of all bills covering sales made the month previous. All royalty settlements to become due and payable on the 10th day of the month covering sales made the previous month. Royalties on any and all other minerals or metals mined and sold to be paid on the ONE EIGHTH basis and determined by the current price of such minerals or metals mined and sold.

The Lessor's reserve the right to use the land, or to convey the same not conflicting with the terms of this lease, but under any conveyance the terms of this lease must be reconized by the assigns thereof.

But it is expressly agreed that unless mineral or fossil materials of practical value for mining purposes shall be found within SIX MONTHS from the date of this instrument, this lease may be terminated by the Lessee at any time thereafter, on TEN DAYS written notice to the Lessor's. The Lessee agrees that during continuance of this lease work in said mines or upon said property in search of minerals or fossils shall not cease longer than NINETY DAYS at any one time, unavoidable accidents excepted.

Witness our hands and seals the day and year first above written.

George B. Howell (Seal)
Party First Part

Erah M. Howell (Seal)
Party First Part

Glen Buchanan (Seal)
Party Second Part

R. P. Greene, C.S.C.
Witness

.....

North Carolina.
Mitchell County.

Before me R. P. Greene, C.S.C., ~~a Justice of the Peace~~ in and for the State & County aforesaid, personally appeared on this day, George B. Howell and Erah Howell and Glenn Buchanan to me personally known to be the parties to this Agreement, and who by thier signatures subscribed hereto in my presence, have acknowledged the due execution of this instrument for the purposed therein expressed.

Witness my hand and seal on this the 8. day of Oct. 1956.

R. P. Greene
~~Justice of the Peace~~
Clerk Superior Court.

Filed for Registration on the 8 day of oct
19 56 at 9:15 o'clock A M., and Registered in
the office of the Register of Deeds for Mitchell County,
N. C. this 8 day of oct 19 56 at 10:00
o'clock A M., in Book 86 of Deeds, on Page
57 etc.

Bill Masters
Register of Deeds

☑ Audited 9/23/57

☐ Certified

Name Glenn Buchanan

State No. Car.

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 3/27/58

Incl. Voucher for April, 1957

Commodity Mica.

☐ Actual Cost

☑ Agreed Unit Costs

Docket No. 4500

Idm-E No. 1053

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	100 Ft.	3450.00			
Raising					
Shafts	60 Ft.	2,730.00	60	2,730.00	2,730.00
Winzes					
Drilling (Specify)					
Surface Excavation					
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		6,296.00		2846.00	2,846.00

Prepared by Walter C. Anderson

71626

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED APR 2 1958

DATE		CODE
4/2	C	220
4/3	NOA	600

March 31, 1958

Memorandum

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

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

Subject: Docket No. DMEA-4500, Contract Idm-E1053 (Mica)
Glenn Buchanan, Bandana, North Carolina
Chestnut Branch mine, Mitchell County, North Carolina

Reference is made to your letter of March 10, and our reply dated March 20.

Mr. Beck made inquiries in Spruce Pine and examined the records at the GSA Depot. So far as we can determine, neither Mr. M. E. Burleson nor anyone else has done any work at this Chestnut Branch mine since completion of the DMEA project. It thus appears that no royalty is due.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

March 20, 1958

DMEA
RECEIVED MAR 24 1958

DATE		CODE
3/24	C	220
3/24	Unk	600

Memorandum

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

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

Subject: Docket No. DMEA-4500, Contract No. Idm-E1053 (Mica)
Glenn Buchanan, Bandana, North Carolina
Chestnut Branch prospect, Mitchell County, North Carolina

Reference is made to your letter of March 10.

We have no information that mica has been produced at the subject prospect since September 18, 1957. The GSA Depot at Spruce Pine reports several sales, by various Operators, from "Chestnut Branch Mine", but there are two or more mines in the area with this name.

Mr. Beck will be at the Spruce Pine Depot next week, and will investigate the matter further. As soon as he reports his findings, we will advise you further.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/10	Anderson	600
3/10	Houk	600
3/10	[illegible]	130
"	Johnson	110
"	Rittenhouse	100
3/11	C	220
		600

600

MAR 10 1958

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

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1053

Dear Mr. Laurence:

Before we write a closing letter on the project, we would appreciate having information concerning activity at the subject mine between September 13, 1957, the date of the Operator's Supplemental Final Report, and the present time. Has any mica been produced during this time?

The Operator reports that all of the mica produced during the DMEA operation has been sold and royalties paid. However, in his Final Report the Operator stated that Mr. M. E. Burleson requested that the machinery be left at the mine, as he was hoping to start mining in the near future.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

Frank D. Lamb
Member, Bureau of Mines

Inor H. Kiilsgaard
Member, Geological Survey

WCAnderson:gad 3/10/58
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 JAN 29 195

DATE	MINERALS	CODE
1/29	C	220
1/29	Hook	600

January 28, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4500 (mica)

Applicant: Glenn Buchanan

Name and Location of Property: Chestnut Branch (Glenn) Prospect, Mitchell County, North Carolina

Contract Number: Idm-E 1053

Date of Field Team Final Report: 1/20/58

Date Rec'd. by Br. of Ceramic & Fertilizer Mtls. 1/27/58

Field Team Recommendation: Recommend no certification of discovery be issued.

Comments:

1. A contract authorizing 60 feet of shaft sinking and 100 feet of drifting or crosscutting was terminated after only the shaft work had been completed.

2. The pegmatite pinched out and reserves of strategic mica are estimated to be negligible.

3. Expenditures -

Total approved	$6,296.00
Total cost	2,846.00
Gov't. share of the cost	2,134.50
Value of production during operation	1,685.62
Royalty paid	84.28

Recommendation:

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

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 28 1958

DATE	INITIALS	CODE
1/28	C	220
1/29	[illegible]	600

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

January 27, 1958
Re: DMEA 4500 Idm-E1053
Glenn Buchanan
Chestnut Branch (Glenn) Prospect
Mitchell County, N. C.
Mica

Memorandum

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

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

Subject: Review of Field Team Final Report

The contract approved the expenditure of $6,296.00 on the exploration of a pegmatite on which a 10-foot shaft or pit had been sunk and from which $400.00 worth of mica was said to have been recovered.

The 'saddle' of pegmatite occupies the crest of a fold and was followed to an incline depth of 60 feet. At the surface the pegmatite appeared to extend back northeasterly on the flank of the fold, but at the depth of 60 feet the extension is missing, the plan sectional area of the pegmatite is small so offers no target for the approved lateral work and no lateral work was done. Total cost of the project is $2,846.00, of which the Government contribution is $2,134.50.

Mica sold amounted to $1,685.62 and royalty remitted amounts to $84.28. Some mica should be expected below the incline bottom in the plunge extension of the pegmatite, but the quantity inferred does not justify certification and certification is not recommended.

I concur with that opinion.

N. E. Nelson

N. E. Nelson

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 23 1958

DATE		CODE
1/23	C	220
1/23	esf	130
1/23	FEG	110
1/27	JAB	130
		220
1/29	WZA	600

January 20, 1958

Memorandum

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

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

Subject: Final Report - Docket No. DMEA-4500, Contract No. Idm-E1053
Glenn Buchanan, Bandana, North Carolina
Chestnut Branch (Glenn) Prospect, Mitchell County, N. C.

Enclosed are the original and two copies of the subject final report. We agree that it should not be certified.

V. J. Lynch
Acting Executive Officer

Helmuth Wedow, Jr.
Geologist, Geological Survey

Enclosures 3

Reviewed by
DMEA OPERATING COMMITTEE
1-27-58
(date)

Field Team
Final Rept

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 23 1958

DATE	[illegible]	CODE
1/27	248	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT

FIELD TEAM - REGION V

DMEA-4500, Idm-E1053, CHESTNUT BRANCH (GLENN) PROSPECT (Mica)
Mitchell County, North Carolina

S. C. Bergman, Geologist
U. S. Geological Survey

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

Reviewed by
DMEA OPERATIONS [illegible]
1-27-58
[illegible]

January 20, 1958

FIELD TEAM FINAL REPORT

DMEA-4500, Idm-E1053 (mica) CHESTNUT BRANCH (GLENN) PROSPECT
Mitchell County, North Carolina

Operator: Glenn Buchanan, Bandana, North Carolina

SUMMARY

Exploration work was terminated after completion of the contract incline which followed the plunge nose of pegmatite emplaced along the crest of a contorted overturned fold. No lateral work could be justified since the pegmatite pinches out along the limbs of the structure at depth. Although pegmatite tapers down the plunge axis, its projection may be minable, but calculations indicate that significant reserves are not present as was previously believed. Certification of discovery is not recommended.

INTRODUCTION

Location

The contract site lies on the southwest wall of a steep, narrow, heavily wooded valley, opening northwestward into the North Toe River, 400 to 500 feet away. It is 0.77 airline miles S. 74° W. of Bandana, Mitchell County, North Carolina, and is in the north-central one-ninth of the Micaville, North Carolina Quadrangle, USGS-TVA Ed. 1934 (209-NW), 1:24,000.

Contract Work

In addition to the construction of a tool house and exploder and powder magazines, a total of 60 feet of incline was sunk under the contract. Contract work started on January 28, 1957, and was terminated upon completion of the incline as of May 15, 1957. The incline was sunk in hard unweathered material from the bottom of an existing 8 to 15-foot deep pit and required little timbering except around the uphill edge of the pit. Incline was oriented in a S. 30° W. direction on a 40 to 50° slope, keeping the crestal portion of the footwall contact in the floor and lower left corner of the

of the incline. Pegmatite extending to the east-northeast along the limbs of the structure at the surface, had pinched out completely at depth. Because of this no lateral work was believed to be justified.

Work progress was somewhat slow, but satisfactory and in accordance with the terms of the contract.

GEOLOGY

The pegmatite has been concordantly emplaced along the crest of an overturned southwest plunging fold. Pegmatite at the surface is from three to six feet thick, and along the roughly parallel limbs, strikes N. 80° E. and dips 30 to 40° southwest. The structure plunges 35 to 50° southwest. Asymmetrical dragfolding and crenulation of the wall rock and pegmatite margins is common and believed to be mostly pre-pegmatite and related to the isoclinal folding of the country rock. The overall width of the structure narrows down plunge from 18 feet at the surface to about 9 to 10 feet at the incline bottom. The prominent convolutions and infolded septa of country rock exposed at the surface along the footwall contact, coalesce down plunge into a single broad convexly curved arc. The wall rock is an unweathered contorted, quartz-muscovite-biotite schist and gneiss with some interlayered gneiss whose texture has been noticeably coarsened by alteration processes.

Pegmatite is a hetrogeneous mixture of medium grained plagioclase, interstitial quartz, and muscovite, with isolated crystals of microcline perthite, and minor accessory garnet and apatite. A fine grained border zone of plagioclase, quartz and muscovite is commonly present. Muscovite is generally concentrated along the underside of portions of the contacts and infolded septa of country rock. It was recovered in relatively thick,

flat, clear, light brownish red books up to 8 x 12 inches across. The worst defect noted was a moderate to severe amount of ruling.

It is estimated from block recovery in an average 6 x 8 foot incline cross section, that the pegmatite contains an average 1.37 pounds of recoverable block per cubic foot in place. Recovery of sheet out of the block is estimated at somewhat over 3%. A 60 foot plunge projection from the incline bottom with a 5 x 7 foot cross section, gives an estimated reserve of 2877 pounds of block with a present-day value of about $1150.00.

CONCLUSIONS AND RECOMMENDATIONS

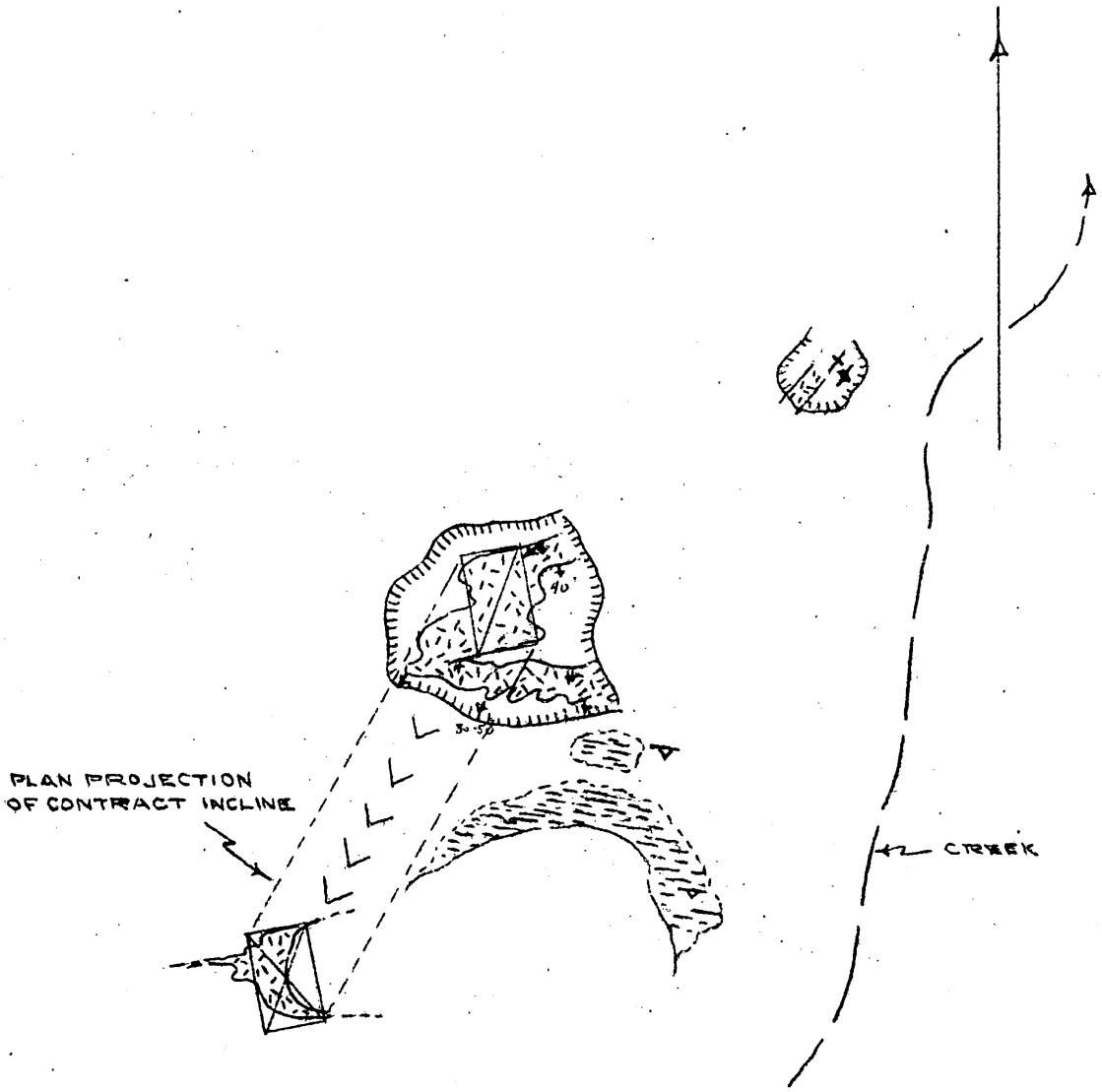
Incline work was completed satisfactorily, but no lateral pegmatite continuity could be outlined, and the contract terminated at that point. A small reserve can be blocked out down plunge from the incline bottom, as outlined in the above section. It is much too small to be certifiable as a discovery and none is recommended.

EXPENDITURES

(a)	Total approved	$6,296.00
(b)	Total cost of project	2,846.00
(c)	Government's share of cost	2,134.50
(d)	Government's share unexpended	2,587.50
(e)	Value of production	1,685.62
(f)	Royalty paid to date	84.28

S. C. Bergman, Geologist
U. S. Geological Survey

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



LEGEND

- PLAG.-QTZ.-MUSC. PEGMATITE
- QTZ.-BIOTITE-MUSCOVITE GNEISS
- SURFACE EXCAVATION

CHESTNUT BRANCH (GLENN) PROSPECT

MITCHELL COUNTY, NORTH CAROLINA

DMEA-4500, Idm.-E1053

(MICA)

SCALE: 1" = 20'

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 23 1958

DATE	INITIALS	CODE

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/30	Anderson	600
12/30	GCS	130
		~~110~~
"	Rottendorf	100
12/31	C	220
		600

600

DEC 30 1957

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

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1053

Dear Mr. Laurence:

Reference is made to the Field Team's Interim Report of May 14, 1957, stating that certification of the subject project will be recommended.

This project was terminated, effective May 15, 1957; however, we have not yet received the Field Team's Final Report. As the final date for certification is January 23, 1958, we shall appreciate receiving the final report, with the estimate of reserves and a confirmation of certification recommendation at your earliest convenience.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (WB)

Approved:

Frank D. Lamb (WB)
Member, Bureau of Mines

Thor H. Kiilsgaard (WB)
Member, Geological Survey

WCAnderson:gad 12/30/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/24	Talbert	800
9/25	B	220
9/25	Hawk	600

SEP 24 1957

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

Re: Docket No. DMEA-4500 (Mica)
Glenn Buchanan
Chestnut Branch Mine
Mitchell County, N. C.
Contract No. Idm-E1053

Dear Mr. Laurence:

As requested by your memorandum of September 20, 1957, a Report of Review in lieu of a final audit of the referenced project has been prepared and the original and two copies thereof are enclosed.

If you concur with the facts stated in this Report of Review, the original and one copy should be forwarded to the regional finance officer and one copy should be retained in your files. If for any reason you do not concur, please return the original and both copies with your comments.

Sincerely yours,

(Signed) E. D. Talbert

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

Enclosure

EDTalbert/wb
September 24, 1957

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

8623

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

Official
~~EXTRA~~ COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
9/24	B	220
9/25	[illegible]	600

September 20, 1957

Memorandum

To: Finance Officer - Region V - (DMEA)

From: Executive Officer, DMEA - Region V - Knoxville

Subject: Royalty Payment - DMEA-4500, Idm-E1053(mica)
Glenn Buchanan, Operator
Chestnut Branch Mine, Mitchell County, N. C.

Attached is a check for royalty on the subject mine in the amount of $3.00 dated September 17, 1957. This represents payment of 3000 lbs. of scrap at 2¢ per pound.

Robert A. Laurence

zm
cc
Lynch
Mittendorf
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 19 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

WASHINGTON 25, D. C.

September 20, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
9/23	C	220
9/23	[illegible]	800
9/23	Hoch	600

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, REgion V - Knoxville, Tenn

Subject: Operator's Supplemental to Final Report, DMEA-4500, Idm-E1053(mica) Glenn Buchanan, Bandana, N.C. Chestnut Branch Mine, Mitchell County, N.C.

Enclosed are the original and two copies of a supplement to the Operator's final report sent to you on July 23, 1957.

A total of $84.28 in royalty has been received.

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

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

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE

Bandana, N. C.
Sept. I8, I957

DMEA-4500 (Mica)
Chestnut Branch Mine
Mitchell Co. N. C.

Mr. Robert A. Laurence,
Post Office Building,
Knoxville, Tenn.

Dear Sir:

In trying to send you the few additional items requested on my summary report dated July 22, I957. We sank an incline shaft 60' with the pegmatite, being approximately 5' X 8'. We had no strike extent for driftage. In sinking the incline shaft , we recovered approximately 3100 Lbs of ruby block mica. The grade of the mica was fair. After making my sales at the Spruce Pine Depot, I sold 3000 lbs of scrap and tough punch at 2¢ per pound, Having sent you the check for what I sold at the Depot. Enclosed is a check for 5% of the 3000 lbs of scrap and punch, which makes all the mica that I got.

In regard to the future of the mine, Mr. M. E. Burleson, contacted me some few days ago and requested the machinery be left at the mine, that he and the owner of the mine, Boyd Howell was hoping to start mining in the near future.

Hoping the above information is what you wanted,

I am,

Yours very truly,

Glenn Buchanan
Bandana, N. C.

RECEIVED
SEP 20 1957
U. S. Geology Survey
Knoxville, Tenn.

Operating Committee

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
9/23	C	220
9/23	Hook	600

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

September 20, 1957

Memorandum

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

From: Executive Officer, DMEA - Region V - Knoxville

Subject: DMEA-4500, Idm-21053 (mica) Glenn Buchanan, Bandana, N. C.
Chestnut Branch Mine, Mitchell County, N.C.

Work on this contract was terminated June 10, 1957, effective May 15.

When the April voucher was approved, May 7, we did not realize that it would be the final voucher, therefore, it has been paid.

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

Construction of toolhouse
Construction of powder and exploder magazines
Shaft-sinking, 60 feet

An acceptable final report has been received. Therefore, a report of review in lieu of final audit is requested.

RAL/sm
cc
Lynch
Finance
Shirley
Files

Robert A. Laurence
Executive Officer, DMEA
Region V

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

July 23, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 22 1957

DATE	MINERALS	CODE
8/22	C	220
8/22	[illegible]	800
[illegible]	[illegible]	600

Mr. Glenn Buchanan

Bandana, North Carolina

Re: DMEA-4500 (mica)
Chestnut Branch Mine
Mitchell County, N.C.
Contract Idm-E1053

Dear Mr. Buchanan:

Your "summary report of operation," dated July 22, 1957 was received here today. We are glad to have this information, but there are a few additional items which are needed. Please note that, as stated in Article 5c of the contract, the final report should include your evaluation of the results of work done under the contract. This should include: the size and extent of the pegmatite ("vein"), the amount and quality of mica recovered during the contract work, an estimate of the reserves of mica and plans for future work.

Please note also that the Government is entitled to a royalty on all minerals produced between January 17, 1957 and January 22, 1958 regardless of whether or not there is a certification of discovery (see Article 6-B-1). We have already received $81.28 from you covering sales to the Government Depot, but have received no record of sales of punch or scrap mica, which are also subject to payment of royalty.

Sincerely yours,

Robert A. Laurence
Executive Officer, DMEA
Region V

RAL/sm
sc
Opr. Com.-2

Lynch
Shirley
[illegible]

SUMMARY REPORT OF OPERATION

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 22 1957
DATE | INITIALS | CODE

Bandana, N.C.
July 22nd, 1957

Mr. R.A. Lawrence,
DMEA Office
Knoxville, Tennessee.

DMEA # 4500
Re: Chestnut Branch Glen Mine
Mitchell County, N.C.

Dear Sir:

I herewith submit a Summary Report of the mica mining operation carried through on the Chestnut Branch Glen Mica Mine, located in Mitchell County, N.C. and operated by me under DMEA contract # 4500.

January 28th, 1957: Started up operation on this project by setting up all machinery and timbering opening of shaft. Hired (3) men who assisted in the above work.

February--1957: Drilled, blasted and mucked throughout month of February for a total of (25) feet on incline.

March-- 1957 : Built toolhouse, explosive and powder magazine and then drilled blasted and mucked for a total of (25) feet.

April-- 1957 : Put in bucket slide and ladder. Drilled, blasted and mucked for a total of (10) feet in incline thus ending the contract for the (60) feet called for in agreement.

Respectfully submitted,
Glen Buchanan
Bandana, North Carolina.

Operator's Final Rept

RECEIVED
JUL 23 1957
Knoxville, Tenn.

July 30, 1957

Memorandum

To the File

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

Subject: Substance of telephone conversation of July 30, 1957, with Mr. R. A. Laurence

Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, N. C.
Contract No. Idm-E1053

I stated that we are waiting on several final field team reports and mentioned DMEA-4500.

Mr. Laurence said they have not received anything from the operator since May, and that the contract was terminated. He further stated that they received a report from the operator and it was only about 1/2 the information needed. They asked the operator to send in more information and that they have not received his final voucher unless the April voucher was the final; in which case it has already been paid.

Mr. Laurence further stated that they have a number of final field team reports that are due and he will get them in just as soon as possible.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 3 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE		CODE
7/5	C	220
7/8	wa	600

July 3, 1957

Memorandum:

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville, Tenn.

Subject: Termination Agreement - Idm-E1053, DMEA-4500-mica
Glenn Buchanan, Bandana, N.C. Chestnut Branch Mine,
Mitchell County, N.C.

Transmitted are three signed copies of the subject termination agreement. The usual distribution of the other copies has been made by this office.

Robert A. Laurence

Robert A. Laurence

zm.

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

July 3, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE
7/5	C	220
7/8	wa	600

Memorandum

To: Finance Officer, Region V - (DMEA)

From: Executive Officer, DMEA - Region V - Knoxville, Tenn.

Subject: Royalty Payment - Idm-E1053, DMEA-4500-mica
Glenn Buchanan, Bandana, N.C. Chestnut Branch Mine,
Mitchell County, North Carolina

Attached are settlement sheets in the amount of $1,625.62, and a royalty check for $81.28 to be credited to the subject contract.

Robert A. Laurence

zm.
cc:
Lynch
Mittendorf
Shirley
Lynch
Files

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT

MICA PURCHASING DEPOT, SPRUCE PINE, N. C.

DATE PURCHASED: 1-21-57

ACCEPTANCE NO.: AR-1140 (a)

CERTIFICATE AUTHORIZATION NO.: [illegible]-1-1942 A

LOT NO.: SP AR-1140 (a)

VOUCHER NO.:

	TOTAL WGT (LBS)	LBS. - G S.	LBS. - STAINED	LBS.-HVY.STAINED	TOTAL VALUE
PROCESSED FOR PAYMENT	12.57	2.22	7.35	3.00	139.12
PROCESSED - NO PAYMENT					
THINS					
BLACK - DOTS SPOTS STAIN					
UNDERSIZED					
PROCESS - GAIN ~~LOSS~~	.01				
TOTAL LBS. PURCHASED	12.56				

FOR USE OF CERTIFYING OFFICER

LESS: INITIAL PAYMENT - VOUCHER NO. SCH. NO.

BALANCE DUE		115.49
GOVERNMENT ☐	SELLER ☒	23.63

SELLER'S NAME AND ADDRESS

Glenn Buchanan
Bandana, N. C.

NAME OF MINE AND LOCATION

Chestnut Branch

APPROVED

DEPOT SUPERINTENDENT — DATE: 2-14-57

Form R4-T36, May 1956

295.30
340.45
673.88
176.87
139.12

1625.62
5
8128.00

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 3 1957
DATE | INITIALS | CODE

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT

MICA PURCHASING DEPOT, SPRUCE PINE, N. C.

DATE PURCHASED: 3-4-57

ACCEPTANCE NO. AB-1346 (a)

CERTIFICATE AUTHORIZATION NO. DMS-4-1982 A

LOT NO. SP AB-1346 (a)

VOUCHER NO.

	TOTAL WGT (LBS)	LBS. - G. S.	LBS. - STAINED	LBS.-HVY. STAINED	TOTAL VALUE
PROCESSED FOR PAYMENT	16.34	4.21	10.22	1.91	176.87 ✓
PROCESSED - NO PAYMENT					
THINS					
BLACK - DOTS SPOTS STAIN					
UNDERSIZED					
PROCESS - ~~[illegible]~~ LOSS	.16				
TOTAL LBS. PURCHASED	16.50				

FOR USE OF CERTIFYING OFFICER

LESS: INITIAL PAYMENT - VOUCHER NO. SCH. NO. 116.55

BALANCE DUE GOVERNMENT [ ] SELLER [X] 60.32

SELLER'S NAME AND ADDRESS

Glenn Buchanan
Burnsville, N. C.

NAME OF MINE AND LOCATION

Chestnut Branch-Mitchell County, N. C.

APPROVED

3-22-57

DEPOT SUPERINTENDENT DATE

Form R4-T36, May 1956

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT

MICA PURCHASING DEPOT, SPRUCE PINE, N. C.

DATE PURCHASED: 4-23-57

ACCEPTANCE NO.: A[illegible]-1964 (a)

CERTIFICATE AUTHORIZATION NO.: [illegible] A

LOT NO.: SP A[illegible]-1964 (a)

VOUCHER NO.:

	TOTAL WGT (LBS)	LBS. - G. S.	LBS. - STAINED	LBS.-HVY. STAINED	TOTAL VALUE
PROCESSED FOR PAYMENT	44.51	16.95	23.06	4.50	673.88
PROCESSED - NO PAYMENT					
THINS					
BLACK - DOTS SPOTS STAIN					
UNDERSIZED					
PROCESS GAIN LOSS	.04				
TOTAL LBS. PURCHASED	44.55				

FOR USE OF CERTIFYING OFFICER

LESS: INITIAL PAYMENT - VOUCHER NO. SCH. NO. 468.67

BALANCE DUE GOVERNMENT [ ] SELLER [X] 205.21

SELLER'S NAME AND ADDRESS

Glenn Buchanan
Bandana, N. C.

NAME OF MINE AND LOCATION

Chestnut Branch-Mitchell County, N. C.

APPROVED

DEPOT SUPERINTENDENT 5-10-57 DATE

Form R4-T36, May 1956

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT

MICA PURCHASING DEPOT, SPRUCE PINE, N. C.

DATE PURCHASED: 5-3-57

ACCEPTANCE NO.: AA-1612 (a)

CERTIFICATE AUTHORIZATION NO.: AA-4-1612 A

LOT NO.: SP AA-1612 (a)

VOUCHER NO.:

	TOTAL WGT (LBS)	LBS. - G. S.	LBS. - STAINED	LBS.-HY. STAINED	TOTAL VALUE
PROCESSED FOR PAYMENT	24.94	11.16	11.47	2.31	360.45
PROCESSED - NO PAYMENT					
THINS					
BLACK - DOTS SPOTS STAIN					
UNDERSIZED					
PROCESS - LOSS	.18				
TOTAL LBS. PURCHASED	25.12				

FOR USE OF CERTIFYING OFFICER

LESS: INITIAL PAYMENT - VOUCHER NO. SCH. NO. 209.53

BALANCE DUE GOVERNMENT [ ] SELLER [X] 130.92

SELLER'S NAME AND ADDRESS

Glenn Buchanan
Bandana, N. C.

NAME OF MINE AND LOCATION

Chestnut Branch-Yancey County, N. C.

APPROVED

DEPOT SUPERINTENDENT DATE

Form R4-T36, May 1956

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT

MICA PURCHASING DEPOT, SPRUCE PINE, N. C.

DATE PURCHASED: 5-23-57

ACCEPTANCE NO.: AR4-1698 (a)

CERTIFICATE AUTHORIZATION NO.: DMS-4-1982 A

LOT NO.: SP AR-1698 (a)

VOUCHER NO.:

	TOTAL WGT (LBS)	LBS. - G. S.	LBS. - STAINED	LBS.-HVY.STAINED	TOTAL VALUE
PROCESSED FOR PAYMENT	20.12	10.84	8.29	.99	295.30
PROCESSED - NO PAYMENT					
THINS					
BLACK - DOTS SPOTS SCUM					
UNDERSIZED					
PROCESS - LOSS	.14				
TOTAL LBS. PURCHASED	20.26				

FOR USE OF CERTIFYING OFFICER

LESS: INITIAL PAYMENT - VOUCHER NO. SCH. NO. 193.22

BALANCE DUE GOVERNMENT [ ] SELLER [X] 102.08

SELLER'S NAME AND ADDRESS

Glenn Buchanan
Bandana, N. C.

NAME OF MINE AND LOCATION

Chestnut Branch, Prospect-Mitchell County N. C.

APPROVED

[signature] 6-20-57

DEPOT SUPERINTENDENT DATE

Form R4-736, May 1956

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/10	Houk	600
		~~600~~
6-10	Chamberlin	800
6/10	GCS	130
"	Johnson	110
"	Hutchison	100
6/12	CD	220
		600

600

JUN 10 1957

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

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1053

Dear Mr. Laurence:

Pursuant to the Field Team's recommendation of May 23, 1957, we have prepared the enclosed original and five copies of a termination agreement signed by the Administrator for the Government. Two extra copies are enclosed for the use of the Field Team.

If any part of this agreement does not have either your approval or that of the Operator, and cannot be amended within your delegated authority, then the original and all copies are to be returned to this office, together with the proposed changes for consideration.

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

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Approved:

Frank D. Lamb (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

Enclosures 8

LGHouk:gad 6/7/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

ACTION ON INTERIM
ON FINAL FIELD TEAM REPORT

Date 5-27

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Hammer~~ Leo
3. ~~Mr. Chambers~~
4. Docket Control Mails and Files
5. Division
6. Docket Control Mails and Files
7. 600

Note comments in report regarding:

1. Termination recommended
2. with certification
3.
4.

and take appropriate action.

- - - - - - - - -

Action taken by Division: [illegible]

Robert E. Adams

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 18 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

WASHINGTON 25, D.C.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 27 1957

DATE	INITIALS	CODE
27	C	220
"	CMu	100
5		

May 23, 1957

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tenn.

Subject: Request for Termination: DMEA-4500, Idm-E1053-Mica
Chestnut Branch Mine, Mitchell County, N. C.
Glenn Buchanan, Bandana, N. C., applicant

Submitted is the latest interim report on the subject property contract.

This project has been discussed with the Field Examiners and we agree with them that, for reasons stated in the interim report, the project should be terminated. We are therefore requesting termination of the contract by mutual agreement effective date May 15, 1957. We would appreciate early action on the request so that the Operator may be permitted to move his equipment elsewhere as soon as possible.

Telephone 4/28
Lawrence
Bergman Detail work
Operator more punching but
not material [illegible]

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

V. J. Lynch
V. J. Lynch, Member
DMEA Field Team, Bureau of Mines

INTERIM REPORT

DMEA-4500, Idm-E1053(mica) CHESTNUT BRANCH MINE

Operator: Glenn Buchanan, Bandana, North Carolina

Location: 0.77 airline mil S74°W of Bandana, Mitchell County, N.C.

The Field Examiners revisited the property and discussed the feasibility of additional work. Although the contract incline has been completed for some time only a single round has been broken in the interim period. The Applicant is in a position to mine mica bearing material overhead in the incline and further along the plunge of the structure. The contract incline has outlined a structure of limited lateral extent, but of strong longitudinal continuity. Recovery of muscovite has been good and certification will be recommended, with the major part of the reserve area as the plunge projection of the structure as outlined.

It is recommended that the project be terminated without any drifting, since the Examiners have not been able to define any lateral targets at depth, and it is felt that further extension of the contract incline would be in the realm of mining.

Inspected: May 14, 1957

S. C. Bergman, Geologist
Geological Survey

Wm. A. Beck, Mining Engineer
Bureau of Mines

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 27 1957

DATE	INITIALS	CODE

z

Form MF-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 PAYMENT

OPERATOR'S MONTHLY REPORT AND VOUCHER

67

Month of April, 1957 Docket No. DMEA 4500 Contract No. Idm E 1053
Operator's Name Glenn Buchanan Minerals Mica
Address Bandana, N. C.
Contract Amount, $ 6,296.00 Government Participation: 75 % Amount, $ 4722.00

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						
Crosscutting						
Drifting						
Shaft (10 Ft.)	$455.00	2,275.00	2,730.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Powder House		25.00	25.00			
Exploder Magazine		16.00	16.00			
(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						
Tool House		75.00	75.00			
(8) Contingencies (specify):						
TOTALS	$455.00	2391.00	$2846.00	455.00	2391.00	2846.00

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

Date May 3, 1957 *Payee Glenn Buchanan

Per Glen Buchanan Title Operator

*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)

RECEIVED MAY 7 1957

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

$ 341.25

Signature Helen R. Miller
(Authorized Certifying Officer)

Date MAY 9 1957 Vou. No. 186
(See other side)

3

113.75

(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. E-1053 in accordance with the terms of the contract.

Signature V. J. Lynch Title U. S. BUREAU OF MINES Date MAY 7 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date MAY 7 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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1957 Docket No. DMEA 4500 Contract No. Idm EI053

Operator's Name Glenn Buchanan Minerals Mica

Address Bandana, 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								
SHAFT (IO Ft.)	Ft.	455.00	(IO)	2730.00	60	45.50	60	45.50
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Powder House	I			25.00	I	25.00	I	25.00
Exploder Magazine	(I)			I6.00	I	I6.00	I	I6.00
Tool House	I			75.00	I	75.00	I	75.00
TOTAL DISTRIBUTED COSTS		455.00		2846.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		455.00		2846.00				

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 May 3, 1957 Operator Glenn Buchanan

Per Glen Buchanan Title Operator

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)

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

DMEA No. 4500

OPERATORS
MONTHY PROGRESS REPORT
FOR THE
MONTH OF ~~XXXXX~~ APRIL 1957

Work Accomplished

Drilled blasted and mucked for a total of ten ft.
Installed bucket slide and ladder during month of April

Daily Notes.

April I. Drilled blasted and mucked.

April 2. Drilled blasted and mucked.

April 3. Drilled blasted and mucked.

April 4. Drilled blasted and mucked.

April IO. Installed Bucket slide.

April II. Drilled blasted and mucked.

April I2. Drilled blasted and mucked.

April I5. Drilled blasted and mucked.

April I6. Built ladder, drilled blasted and mucked.

April I7. Drilled blasted and mucked.

April I8. Drilled blasted and mucked.

April I9. Drilled blasted and mucked.

April 22. Drilled blasted and mucked.

April 23. Drilled blasted and mucked.

April 24. Drilled blasted and mucked.

April 25. Drilled blasted and mucked.

Less than 1' per day
Breakdown of costs?
Labor
supplies
Equip

Glen Buchanan

OFFICIAL FILE COPY
DMEA
RECEIVED APR 29 1957

DATE	INITIALS	CODE
4-29	C	220
5/1	Com	100
5/2	Hub	

INTERIM REPORT

DMEA-4500, Idm-E1053 (mica) CHESTNUT BRANCH PROSPECT

Operator: Glenn Buchanan, Bandana, North Carolina

Location: 0.77 airline miles S74°W of Bandana, Mitchell Co., N. C.

Inclined shaft sinking has been completed to a total depth of 60 feet on this contract. The Operator was advised to do additional slabbing of rock near the bottom of the incline on the northwest side of the shaft before doing additional work. Percussion test hole drilling was outlined on the northwest shaft side and future drift work will be dependent on proven continuation of the pegmatite in that direction. Mica production continues sporadically, but no figures or estimates of block recovered during the interim were available.

Slides as an aid to hoisting have been installed, and ladders are being built to provide better access to the incline bottom. Progress on this contract is satisfactory.

L. E. Shirley

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

E. L. Boudette

E. L. Boudette, Geologist
U. S. Geological Survey

April 16, 1957

INTERIM REPORT

DMEA-4500, Idm-31053 (mica) CHESTNUT BRANCH PROSPECT

Operator: Glenn Buchanan, Bandana, North Carolina

Location: 0.77 airline miles S74°W of Bandana, Mitchell Co., N. C.

Inclined shaft sinking has been completed to a total depth of 60 feet on this contract. The Operator was advised to do additional slabbing of rock near the bottom of the incline on the northwest side of the shaft before doing additional work. Percussion test hole drilling was outlined on the northwest shaft side and future drift work will be dependent on proven continuation of the pegmatite in that direction. Mica production continues sporadically, but no figures or estimates of block recovered during the interim were available.

Slides as an aid to hoisting have been installed, and ladders are being built to provide better access to the incline bottom. Progress on this contract is satisfactory.

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

E. L. Boudette, Geologist
U. S. Geological Survey

April 16, 1957

DATE | IN | OUT | CODE

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 15 1957

DATE	INITIALS	CODE
4/15	C	220
"	Com	100
4/16	wra	600

April 11, 1957

Memorandum

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

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

Subject: Interim Reports.

Enclosed are four copies of a number of mica project Interim Reports.

In the case of the Chestnut Branch Prospect, DMEA-4500, we do not propose to take any action on the recommendation of the Field Examiners to convert drift footage to shaft footage, until the shaft has reached the full depth of 60 feet allowed in the contract. It is possible that the Operator will then request additional footage for shaft sinking.

The percussion drilling referred to in this report is at the expense of the Operator.

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

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

RAL/as
Opr. Com. 3
Lynch
Files

OFFICIAL FILE COPY
DMEA
RECEIVED APR 15 1957
DATE | INITIALS | CODE

INTERIM REPORT

DMEA-4500, Idm-E1053 (mica) CHESTNUT BRANCH PROSPECT

Operator: Glenn Buchanan, Bandana, N. C.

Location: 0.77 airline miles S74°W of Bandana, Mitchell Co., N. C.

Inclined shaft sinking on a -45° slope continues on this contract and is now at 50 feet. The work is following a pegmatite 4 to 6 feet thick composed of quartz, feldspar, and small books of muscovite. About 400 pounds of mine-run book has been produced during the interim in rough crystals up to 9 inches by 11 inches and of good quality. At the present depth, the body appears to have no lateral extent, and is emplaced along rolls which plunge to the southeast. The Operator has been instructed to drill percussion test holes in both sides of the shaft to determine the presence or absence of pegmatite along the projected strike as recorded near the surface. If pegmatite is not encountered in these test holes, the Field Examiners recommend that drift footage allowable under the contract be converted to shaft footage, so that the Operators exploration will not be interrupted.

During the interim, a toolhouse, powder magazine, and cap magazine have been built and placed into use. Progress on this contract has been satisfactory.

L. E. Shirley

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

E. L. Boudette

E. L. Boudette, Geologist
U. S. Geological Survey

April 2, 1957

Form MF-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- 61

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1957 Docket No. DMEA 4500 Contract No. Ida-E 1053
Operator's Name Glenn Buchanan Minerals Mica
Address Bandana, N. C.
Contract Amount, $ 6,296.00 Government Participation: 75 % Amount, $ 4,722.00

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						
Bulldozing						
Crosscutting						
Drifting						
Shaft (25 Ft.)	1137.50	1137.50	2275.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Powder House		25.00	25.00			
Exploder Magazine	16.00		16.00			
(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						
Tool House	75.00	75.00	75.00			
(8) Contingencies (specify):						
TOTALS	1228.50	1162.50	2391.00	1,228.50	1,162.50	2,391.00

RECEIVED APR 5 1957 D.M.E.A.

I certify that the above bill is correct and just and that payment therefor has not been received.
Date April 1, 57 Payee Glenn Buchanan
Per Glenn Buchanan Title Operator

*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:
$ 921.37
Signature Helen R. Mellen
(Authorized Certifying Officer)
Date APR 4 1957 Vou. No. 165
(See other side)

307.13

(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. IAm-E1053 in accordance with the terms of the contract.

Signature W. C. Beck Title MINING ENGINEER U. S. BUREAU OF MINES Date APR 3 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date APR 3 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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1957 Docket No. DMEA 4500 Contract No. Ida-B 1053
Operator's Name Glenn Buchanan Minerals Mica
Address Bandona, 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								
Shafts (25 Ft.)	Ft.	1137.50	(25)	2275.00	50 Ft.	45.50	60	45.50
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping Powder House	I			25.00	I	25.00	I	25.00
Trenching Exploder Mag.	I	16.00	I	16.00	I	16.00	I	16.00
Test Pits Tool House	I	75.00	I	75.00	I	75.00	I	75.00
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1228.50		2391.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1228.50		2391.00				

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 April 1, 1957 Operator Glenn Buchanan

Per Glen Buchanan Title Operator

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)

RECEIVED APR 1957 D.M.E.A.

W. E. Beck
MINING ENGINEER
U. S. BUREAU OF MINES

APR 3 1957

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

DMEA No. 4500

OPERATORS
MONTHY PROGRESS REPORT
FOR THE
Month of March 1957

Work Accomplished

Built tool house, exploder magazine and drilled, blasted and mucked for a toatal of 25 ft. Approximately 1000 LB. block mica received during month.

Daily notes

March 4. Timbered four hours. Drilled blasted and mucked four hours.

March 5. Drilled blasted and mucked eight hours.

March 6. Drilled blasted and mucked eight hours.

March 7. Drilled blasted and mucked eight hours.

March 11. Drilled blasted and mucked eight hours.

March 12. Drilled blasted and mucked eight hours.

March 13. Drilled blasted and mucked eight hours.

March 14. Drilled blasted and mucked eight hours.

March 18. Drilled blasted and mucked eight hours.

March 19. Drilled blasted and mucked eight hours.

March 20. Drilled blasted and mucked eight hours.

March 21. Drilled blasted and mucked eight hours.

March 26. Built exploder magazine and drilled blasted and mucked for a total of eight hours.

March 27. Built hoist shed, drilled blasted and mucked for a total of eight hours.

March 28. Built tool house.

March 29. Drilled blasted and mucked eight hours.

EXTRA COPY
DMEA
RECEIVED APR 8 1957
DATE | REPORTS | COPY

RECEIVED
APR 3 - 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 2 1957

DATE	INITIALS	CODE
4/2	Corr	100
4	H	

INTERIM REPORT

DMEA-4500, Idm-01053 (mica) CHESTNUT BRANCH PROSPECT

Operator: Glenn Buchanan, Bandana, N. C.

Location: 0.77 airline miles S74°W of Bandana, Mitchell Co., N. C.

Inclined shaft sinking continues on this contract, and 40 feet of shaft has been completed to date. About 400 pounds of mine-run book mica of good quality has been produced during the interim in sizes up to 8 inches x 12 inches, however, the pegmatite at this depth contains only small disseminated quartz and scrap sizes of mica with minor feldspar. Much of the better mica has come from the southeast side of the S25°W incline from rolls plunging -30° to -48° SW. The operator was advised to continue sinking, keeping in touch with the hanging wall contact, to a total depth of 60 feet.

Necessary timber work in the portal area has been completed. Progress on this contract is satisfactory.

L. E. Shirley

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

S. C. Bergman E. L. Boudette

S. C. Bergman and E. L. Boudette, Geologists
U. S. Geological Survey

March 19, 1957

Form MF-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- 55

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1957 Docket No. DMEA 4500 Contract No. Id. 81053
Operator's Name Glenn Buchanan Minerals Lead
Address Bandano, B. C.
Contract Amount, $ 6296.00 Government Participation: 75 % Amount, $ 4722.00

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						
Bulldozing						
Crosscutting						
Drifting						
Shaft (25 Ft.)	1137.50		1137.50			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Bordor House	25.00		25.00			
(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						
(8) Contingencies (specify):						
TOTALS	1162.50		1162.50	1,162.50		1,162.50

RECEIVED MAR 11 1957 D.M.E.A.

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

Date March 1, 57 Payee Glenn Buchanan

Per Glenn Buchanan Title Operator

*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:

$ 871.88

Signature Helen R. Miller
(Authorized Certifying Officer)

Date MAR 7 1957 Vou. No. 144
(See other side)

29062

(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. Adm E 1053 in accordance with the terms of the contract.

Signature Sheldon C. Bergquist Title GEOLOGIST, U. S. G. S. Date MAR 8 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lemmer Title EXECUTIVE OFFICER DMEA REGION V Date MAR 6 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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1957 Docket No. DMEA 4500 Contract No. Idm. 21053
Operator's Name Glenn Buchanan Minerals Mica
Address Mondene, 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								
Shafts (25 Ft.)	Ft.	1,137.50	25	1,137.50	25	45.50	60	45.50
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
~~Trenching~~ Powder House Ex.		25.00	1	25.00	1	25.00	1	25.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1,162.50		1,162.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1,162.50		1,162.50				

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 March 1, 1957 Operator Glenn Buchanan

Per Glenn Buchanan Title Operator

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)

RECEIVED MAR 11 1957 D.M.E.A.

S. C. Bergman
GEOLOGIST, U. S. G. S.

MAR 8 1957

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

DMEA No. 4500

OPERATORS
MONTHY PROGRESS REPORT
for the
Month of February 1957

Work Accomplished

Set up machinery, pulled water, worked on hoist, timbered shaft, drilled, blasted and mucked for a total of 25 Ft. Hired three men. One drill runner, one hoister and one mucker.

Daily notes

Jan. 28. Set up machinery.

Jan. 29. Drilled, blasted and mucked eight hours.

Jan. 30. Drilled, blasted and mucked. Baught six new steel, five cases explosives, six boxes exploders, two rolls connecting wire.

Feb. 5. Pulled water 1½ hours, drilled, blasted 6½ hours.

Feb. 6. Pulled water one hour, drilled, blasted 7 hours.

Feb. 7. Drilled, blasted and mucked.

Feb. 8. Drilled, blasted and mucked [illegible] hours.

Feb. 11. [illegible] water one hour, drilled, blasted and mucked [illegible] hours.

Feb. 12. [illegible] two hours. Drilled and blasted [illegible] hours.

Feb. 13. Drilled, blasted and mucked.

Feb. 14. Drilled, blasted and mucked four hours. Installed hand drill four hours.

Feb. 15. Drilled, blasted and mucked four hours. Worked on drill four hours.

Feb. 19. Drilled, blasted and mucked.

Feb. 20. Drilled, blasted and mucked.

Feb. 21. Drilled, blasted and mucked.

Feb. 22. Drilled, blasted and mucked.

Feb. 25. Drilled, blasted and mucked.

Feb. 26. Drilled, blasted and mucked.

Feb. 27. Drilled, blasted and mucked.

Feb. 28. Drilled, blasted and mucked four hours and timbered shaft four hours.

RECEIVED

IN REPLY REFER TO:

Bal 69-T

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

May 29, 1957

Re: DMEA 4500 Idm-E1053
Glenn Buchanan Mine
Mitchell County, N.C.

Memorandum

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

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

Subject: Review of Interim Report

The examiners and Field Team recommend termination of the contract. Mica in recoverable quantity appears to have been discovered.

I concur with the recommendation that the contract be terminated.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
D M E A
RECEIVED MAY 31 1957

DATE	INITIALS	CODE
5/31	C	220
		600

INTERIM REPORT

DMEA-4500, Idm-E1053 (mica) CHESTNUT BRANCH PROSPECT

Operator: Glenn Buchanan, Bandana, N. C.

Location: 0.77 airline miles S74°W of Bandana, Mitchell Co., N. C.

Inclined shaft sinking continues on this contract, and 15 feet of shaft has been completed to date. The pegmatite is about 5 feet thick in the bottom and disseminated small medium books of mica were observed in a pegmatite mixture of quartz and feldspar. The work to date has followed the footwall, but the operator will slab to the hanging wall as he deepens the incline. About 600 pounds of mine-run book has been produced from work completed to date. About 400 pounds of this book yielded 15 pounds of processed mica, and 200 pounds of book is on hand to be processed. Instructions were given for continued sinking of the incline.

Discussion was held with the operator concerning timber work to be accomplished at a later date. Progress on this contract has been satisfactory.

OFFICIAL - COPY

[redacted]

DMEA

RECEIVED MAR 4 1957

DATE	INITIALS	CODE
3/5	C.J.M.	100
3-5	C	220
3/6	Hook	

L. E. Shirley

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

S. C. Bergman

S. C. Bergman and E. L. Boudette
Geologists, U. S. Geological Survey

February 19, 1957

4500

ACTION ON INTERIM
OR FINAL FIELD TEAM REP[illegible]

Date 2-18

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~Division~~
6. ~~Docket Control Mails and Files~~
7. ~~too. not docked~~

Note comments in report regarding:

1.

2.

3.

4.

and take appropriate action.

- - - - - - - -

Action taken by Division: Contents of Int. Rpt. noted

Robert E. Adams

RECEIVED
FEB 18 1957
D.M.E.A.

INTERIM REPORT

On

DMEA-4500, Idm-E1053 (mica) CHESTNUT BRANCH

Operator: Glenn Buchanan, Bandana, North Carolina

Location: 0.77 airline miles S 74° W of Bandana, Mitchell County, N. C. (Micaville, N.C. Quad. TVA Ed 1934-1:24,000)

This contract was started on or about January 28, 1957. The property was inspected February 6, 1957, at which time, the Operator had erected his straight leg and boom pole hoisting arrangement, positioned his hoist and compressor, and sunk 7 feet of new inclined shaft in the bottom of the existing pit. He has not as yet constructed his toolhouse or magazines.

The Operator reports a recovery of about 250 lbs. of muscovite from this first 7 feet of shaft. A bag of mica observed at the site contained ruled books up to 8 inches across. The muscovite is flat hard ruby colored and free from stain. There is a badly cracked overhanging rock wall on the uphill side of the cut which the Operator was instructed to crib solid with round timbers before proceeding with his shaft work. He was also instructed to put a suitable handrail on the access path since it runs across the uphill side of the pit and shaft. Progress is satisfactory on this contract.

February 6, 1957

S. C. Bergman, Geologist, USGS

E. L. Boudette, Geologist, USGS

Wm. A. Beck, Mining Engineer, USBM

z

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1, POST OFFICE BLDG.
KNOXVILLE 2, TENNESSEE

WASHINGTON 25, D. C.

January 28, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 30 1957

DATE	INITIALS	CODE
1-30	CW	220
~~1-31~~	~~RB~~	~~[redacted]~~
1-31	RB	215
		600

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Signed contract - Idm-E1053, DMEA-4500, (mica)
Glenn Buchanan, Bandana, North Carolina

Transmitted are three copies of the proposed contract signed by the Operator, Mr. Glenn Buchanan. The usual distribution of the other copies has been made.

V. J. Lynch

V. J. Lynch, Acting
Executive Officer, DMEA
Region V

S. C. Bergman

S. C. Bergman, Geologist
U. S. Geological Survey

z

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/14	Hopkins	600
1/14	Houk	600
1-14	Chambers	800
1/16	Selfridge	130
	Peterson	110
	Watterson	100

600

JAN 17 1957

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

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina

Dear Mr. Laurence:

Enclosed are the original and five 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 two maps. Also enclosed are two extra copies of Annex I, Exhibit A, and the maps 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 maps are to be returned to this office, together with the proposed changes for consideration.

Copies of memoranda dated December 28, 1956, and January 7, 1957, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Approved:

Frank D. Lamb
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures 12

JHopkins:gad 1/14/57
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 JAN 7 1957

DATE	INITIALS	CODE
1/8	Hook	600
1/8	[illegible]	600
~~January~~ 7, 1957		

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4500 (mica)

Applicant: Glenn Buchanan

Name and Location of Property: Chestnut Branch Prospect
Mitchell County, North Carolina

Date of Field Team Report: 12/12/56

Date Rec'd. by Br. of Ceramic and Fertilizer Materials: 12/27/56

Field Team Recommendation: Recommend that exploration assistance be approved.

Comments:

1. A mica-bearing pegmatite is exposed in a prospect pit.

2. It is reported that about 500 pounds of block mica was recovered from this prospect and sold for $400.

3. Field Examiners state that the mica seen was of excellent quality.

4. Proposed exploration outlined by the field team is consistent with good engineering practices and estimated costs are in line with other DMEA projects.

Recommendation:

I concur with the recommendation of the field team.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

December 28, 1956
Re: DMEA 4500
Glenn Buchanan
Chestnut Branch Prospect
Mitchell County, North Carolina
Applicant's Estimate $7,450.10
Recommended Estimate $6,466.00 - Mica

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in doing exploratory work on a pegmatite on which a 10-foot shaft had been sunk and from which $400.00 worth of mica had been produced.

The examiners found the shaft to be a pit 20 feet in diameter and 8 to 15 feet deep which exposes a tight overturned anticlinal fold and the crest of a contorted concordant 3-5 foot pegmatite. Little muscovite is in sight, but it is of excellent quality.

The general environment bespeaks the probable presence of considerable mica and the examiners and Field Team recommend a work program consisting of 60 feet of shaft sinking and 100 feet of drifting and/or crosscutting.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

RECEIVED
DEC 31 1956
D.M.E.A.

Memorandum December 27, 1956

To: Files

From: James Hopkins

Subject: Review of application for exploration assistance and Field Team Report

Docket No. DMEA 4500 Mica

Glenn Buchanan

Chestnut Branch (Glenn) Prospect

Bandana North Carolina

A pegmatite with good mineralogic and textural environment has been superficially exposed in a single prospect pit

Mica:

Muscovite of fairly high quality has bee removed from the site but what is left appears to be concentrated under and around the interior septum and falls of country rock. It is ruby colored, flat and essentially free from mineral staining. Some books were slightly edge-cracked and roled. Sheet with a maximum size of 4 x 6 inches were seen but the average is about 2 x 2 inches across.

Pegmatite

The Pegmatite appears to have been emplaced along the crestal portion of an overturned southwest-plunging anticline. Asymmetrical drag folding and recrystallization along the pegmatite margins are very common.

Pegmatite is 3 to 5 feet wide along inner limb of the structure and is composed of oligoclase

disseminated quartz with minor perthite and muscovite. Accessory minerals are garnet, apatite and sericite.

Wall rock consists of hard unweathered biotite-muscovite gneiss which is occasionally migmatitic.

Old Worksings:

Consists of a pit which is 20 feet in diameter and 8 to 15 feet deep.

Economics:

It is reported that about 500 pounds of block mica was recovered from the pit in 1954 that sold for $400.00. This could not be checked at the GSA depot since it is not known under what name or individual the mica was sold.

Proposals:

The Applicants proposed to sink a shaft 50 feet deep on the pegmatite and drift 50 feet each way from the shaft to cost $7450.10. Too Much

The Field Team proposes a project of a 60-foot shaft and 100 feet of drifting from the shaft to cost $6466.00 - Fairly Reasonable

Recommendations:

It is recommended that a project involving the following work and allowable costs be approved:

Construction: Toolhouse, Powder & Cap Magazine	116.00
Sink 60 feet of shaft @ $45.50	2730.00
Drive 100 feet of drifts @ $34.50	3450.00
Total Cost	$6296.00

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

RECEIVED DEC 21 1956 D.M.E.A.

December ~~19, 1956~~

Memorandum

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

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

Subject: Examination Report - Glenn Buchanan, Bandana, N. C.
DMEA-4500 (Mica), Chestnut Branch (Glenn) Prospect
Mitchell County, North Carolina

Enclosed are four copies of the subject examination report and nine extra copies of the map. The Field Team agrees with the recommendations as outlined in the report.

Included in the report is a map showing the location of the prospect on the G. B. Howell Tract. This map was prepared by S. C. Bergman from information furnished by the applicant.

V. J. Lynch
V. J. Lynch
Acting Executive Officer
DMEA Field Team, Region V

Helmuth Wedow Jr.
Helmuth Wedow, Jr., Geologist
U. S. Geological Survey

Enclosures 13

Reviewed by
DMEA OPERATING COMMITTEE
12-26-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXAMINATION REPORT, FIELD TEAM, REGION V

On

DMEA-4500 (mica) CHESTNUT BRANCH (Glenn) PROSPECT
Mitchell County, North Carolina

By

A. R. Taylor, and S. C. Bergman, Geologists
U. S. Geological Survey

and

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

December 12, 1956

Reviewed by
DMEA OPERATING COMMITTEE
12-26-56
(date)

ON-SITE EXAM.

RECEIVED
DEC 21 1956
D.M.E.A.

FIELD EXAMINATION REPORT
On

DMEA-4500 (mica) CHESTNUT BRANCH (Glenn) PROSPECT
Mitchell County, N. C.

Applicant: Glenn Buchanan, Bandana, North Carolina

Summary

A pegmatite with good mineralogic and textural environment has been surficially exposed in a single prospect pit. Pegmatite is emplaced along a contorted overturned southwest plunging anticlinal fold. What little mica was seen is of very good quality.

It is recommended that an incline be driven to follow the indicated plunge of the structure and a drift to explore its margins and extensions.

Introduction

Location

The prospect is 0.77 airline miles S 74° W of Bandana, Mitchell County, North Carolina, about 500 feet due south of the recently examined Morris Putnam Mine (Micaville, N.C. Quad. TVA. Ed 1934- 1:24,000).

A requested tie to a property corner was recently received. The Prospect is 770 feet N 45° 45' west of the second corner in the G. B. Howell tract as surveyed by the applicant.

Examination

The Prospect was examined November 14, 1956 over a period of about 1 1/2 hours. The examiners were accompanied by the applicant, Mr. Glenn Buchanan.

Pegmatite is exposed in a pit which is 20 feet in diameter and 8 to 15 feet deep, located on the side of a steep rocky draw approximately 500 feet south of the South Tow River. A permanent water supply is located in the adjacent creek and power is reportedly within 2000 feet. Access road has been

driven to within about 75 feet of the prospect. No equipment, buildings or other improvements presently exist at the prospect site.

This prospect bears no relation to a similarly named prospect (DMEA-3306) examined in May 1954, which is located on the opposite side of the South Toe River in Yancey County.

Previous work was reportedly done by Boyd Howell and others sometime in 1954. It is reported that about 500 pounds of block mica was recovered which sold for $400. The past production could not be checked at the GSA Depot since it is not known under what mine or individual name the mica was sold.

Geology

A concordant mica-bearing pegmatite is exposed in a prospect pit which is 20 ft in diameter, and 8 ft to 15 ft deep. Pegmatite appears to have been emplaced along the crestal portion of an overturned southwest-plunging anticline. The general trend of pegmatite is N 80° E, 30 to 40° SE, while the plunge of the structure is S 40° W 35 to 50° SW (see map). Asymmetrical dragfolding and crenulations along the pegmatite margins are very common. Wall rock consists of hard unweathered biotite-muscovite gneiss which is occasionally migmatitic. Pegmatite averages about 3 to 5 feet in thickness along a single limb of the structure and is composed of predominantly oligoclase, disseminated quartz with minor perthite and muscovite. Accessory minerals are garnet, apatite, and sericite. Muscovite of fairly high quality has been removed from the site, but what is left appears to be concentrated under and around the interior septum and folds of country rock. It is ruby colored, flat and essentially free from mineral staining. Some books were slightly edge-cracked and ruled. Sheets with a maximum size of 4 x 6 inches

were seen, but the average is about 2 x 2 inches across.

Recommendations

It is recommended that exploration assistance at this prospect be approved. This deposit contains excellent quality mica and, if the body persists to depth, considerable mica should be produced from evident rolls along the footwall. The Applicant has done only enough work to expose the pegmatite for examination. Exploration should consist of sinking 60 feet of inclined shaft, followed by 100 feet of drift and/or crosscut and/or stope to permit a thorough program. A toolhouse and magazine should be provided. The Applicant, at his own expense, has constructed a road to within 75 feet of the prospect.

Estimated Costs:

Toolhouse	$75.00	
Powder Magazine	25.00	
Exploder Magazine	15.00	$ 115.00

Sink 60 ft of inclined shaft, 5' x 7' in crosssection and install separated manway (40 shifts)

Labor:

1 - Foreman-Miner @ $1.75/hr.	$560.00
1 - Hoistman @ $1.50/hr.	480.00
1 - Laborer @ $1.00/hr.	320.00

Equipment(rental)

Air Compressor @ $150/Mo.	300.00
Hoist @ $50/Mo.	100.00
Drill w/air hose @ $40/Mo.	80.00
Sump Pump @ $45/Mo.	90.00

Supplies:

Gasoline and oil	120.00
Explosives	175.00
Drill steel	110.00
Timber - 2500 b.f. @ $65/M	162.00
Small tools, pipe, etc.	120.00
Sales tax	21.00
Liability Ins, & S. S.	152.00

Estimated cost of shaft sinking---------- $2,790.00

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

Labor:		
1 - Foreman-Miner @ $1.75/hr.	$700.00	
1 - Hoistman @ $1.50/hr.	600.00	
1 - Laborer @ $1.00/hr.	400.00	
Equipment (rental)		
Air compressor @ $150/Mo.	375.00	
Hoist @ $50/Mo.	125.00	
Sump Pump @ $45/Mo.	112.50	
Rock drill w/air hose @ $40/Mo.	100.00	
Jackleg @ $25/Mo.	62.50	
Supplies:		
Gasoline and oil	175.00	
Explosives	300.00	
Drill Steel	150.00	
Timber - 2000 b.f. @ $65/M	130.00	
Small tools, pipe, etc.	115.00	
Sales Tax	26.00	
Liability & Social Security	190. 00	
Estimated cost of drifting ($35.61/ft.)		$3,561.00
Total estimated cost of project.....		$6,466.00

December 12, 1956

A. R. Taylor and S. C. Bergman, Geologists
U. S. Geological Survey

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

z

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

Docket Cobb

NOV - 2 1956

Mr. Glenn Buchanan

Bandana, North Carolina

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
Mitchell County, North Carolina

Dear Mr. Buchanan:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division 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

JHopkins:gad 10/31/56
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.S.S.

Docket Copy
Surname:

Hopkins
Houk
Selfridge
Lyman

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

NOV - 2 1956

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

Re: Docket No. DMEA-4500-Mica
Glenn Buchanan
Chestnut Branch Mica Prospect
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 October 22 and 29, 1956, by Mr. N. E. Nelson, USGS, and Mr. Donald R. Irving, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge
(857)

Chairman, Operating Committee

Approved:

Frank D. Lamb (857)
Member, Bureau of Mines

N. E. Nelson (857)
Member, Geological Survey

Enclosures 4

JHopkins:gad 10/31/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Reviewed by
DMEA OPERATING COMMITTEE
(date)

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

RECEIVED
OCT 29 1956

October 29, 1956

H

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4500 (mica)

Applicant: Glenn Buchanan

Name and Location of Property: Chestnut Branch Mica Prospect, Mitchell County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 10/19/56

Comments:

1. The applicant reports that $400.00 of good ruby mica was sold from this mine in 1954, apparently from limited operations.
2. Applicant states that some small weathered books of mica are visible in dump.
3. Proposed exploration is consistent with good engineering practice; but cost is 15 to 20 percent higher than other DMEA projects.

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.

Donald R. Irving

Donald R. Irving

IN REPLY REFER TO:

H

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

RECEIVED
OCT 23 1956

October 22, 1956

Re: DMEA 4500
Glenn Buchanan
Chestnut Branch Prospect
Mitchell Co., N. C.
$7,450.10 - Mica

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in exploring a 4-foot pegmatite on which work was done and about $400.00 worth of mica produced in 1954. According to the application the only known opening is a 10-foot shaft. The information originates with the owner.

Although it seems unlikely further work would not have been done, if the facts are straight, an investigation appears warranted.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

October 19, 1956

Mr. Glenn Buchanan
Bandana,
N. C.

Subject: DMEA-4500
Re: Exploration Assistance
Chestnut Branch Mica Prospect

Dear Mr. Buchanan

Your application for exploration assistance, dated October 9, 1956 submitted to our office at Knoxville, has been assigned Docket Number DMEA-4500 and referred to the Nonmetallic Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

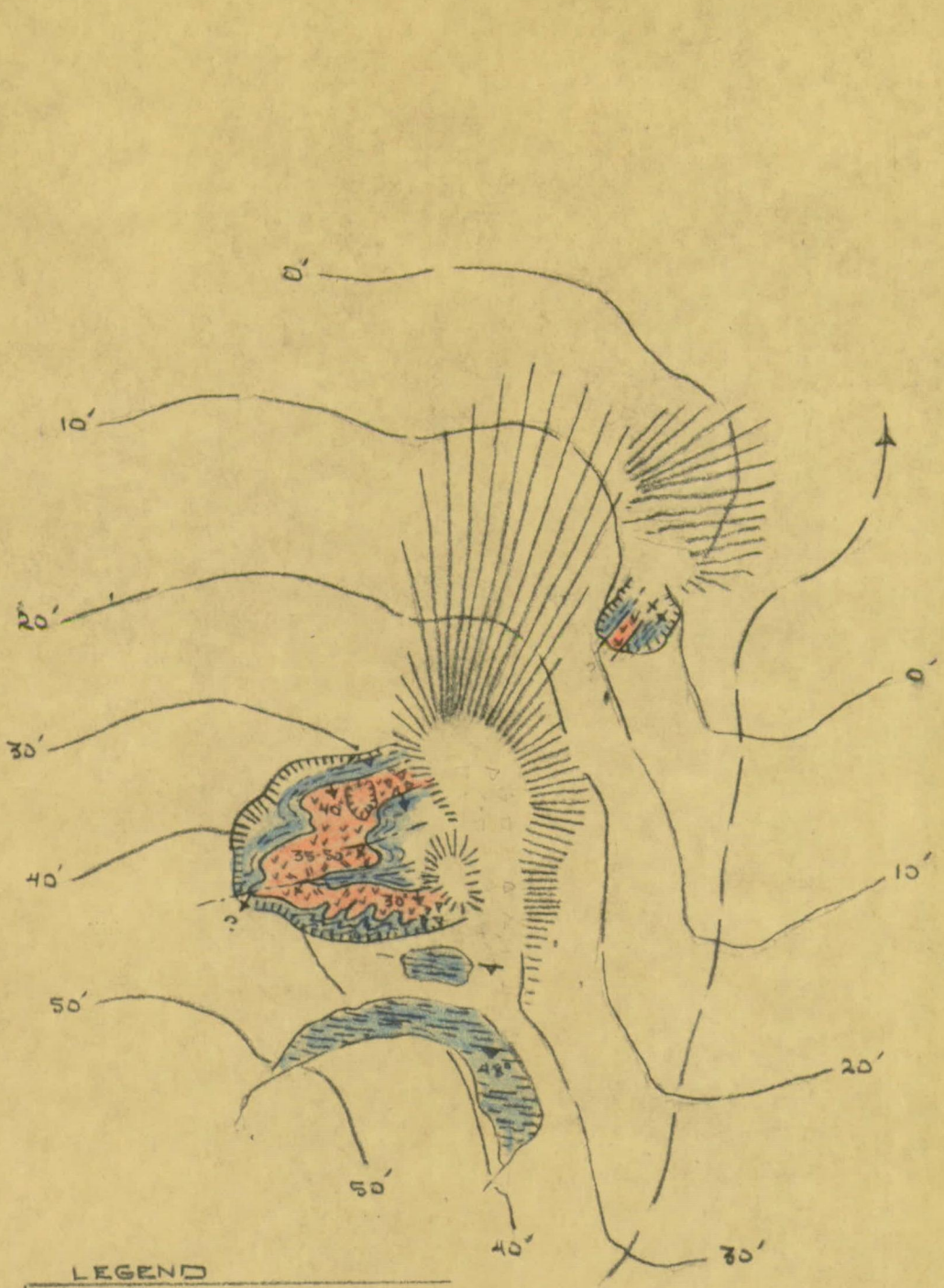
Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to:

Code 600

3571



LEGEND

- MICA-BEARING PEGMATITE
- BIOTITE-MUSCOVITE GNEISS
- EXCAVATION
- DUMP

CHESTNUT BRANCH PROSPECT
MITCHELL COUNTY, N.C.
DMEA - 4500 (MICA)

SCALE: 1" = 20'

SCG 11/86