DMEA 4152

DOCKET INDEX

ACTION DOCUMENTS

1. APPLICATION DATE RECEIVED 2-1-56

2. CONTRACT DATE 5-21-56

3. TERMINATION AGREEMENT: DATE

   a. Mutual (with/without repayment provision).
   b. Unilateral.
   c. Amendment with automatic termination clause and with/without repayment provision.

4. CERTIFICATION DATE

5. AUDIT REPORT DATE

6. AMENDMENTS - NUMBERS DATE

Docket Copy

MF-200A
(Revised June 1954)

Docket No. DMEA 4152

Commodity Mica

Contract No. Idm-E 955

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this MAY 21 1956 day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] C. R. Phillips, whose mailing address is Route #3, Bakersville, North Carolina, hereinafter called the "Operator," as follows:

ARTICLE 1. *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 Exhibit "A," Annex I, and Map

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

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of North Carolina, County of Mitchell, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] Lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] ....., [7] ....recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: Royalty as set forth in the lease.

(c) 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

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) 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. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, 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. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Strategic Mica The work to be performed is described in Exhibit "A." The Operator on or before JUL 30 1956 shall commence the work, and on or before November 30, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(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 a 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 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $5,488.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $4,116.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. 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 may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *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 any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(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 7. *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 a sufficient final report and final account (see Article 6) has been rendered, 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, 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, within 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 or 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) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(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 when 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 8. *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 remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *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 his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *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 11. *Changes and added provisions.*—

Industry 5/9/56
Appd. for Off.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

C. R. PHILLIPS
(Operator)

By C. R. Phillips

By O. Mitchell
Administrator, Defense Minerals
Exploration Administration

Selfridge
Hayes
Hoch
Chamber

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

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

EXPLORATION PROJECT CONTRACT
C. R. PHILLIPS
DOCKET NO. DMEA-4152

ANNEX I

The land referred to in Article 2 of the Contract is situated in Mitchell County, North Carolina, about 1½ miles from Bebels Creek Store on the head of Bebels Creek and is more particularly described as follows:

> Beginning on an iron stake at the center of the Ed Prospect on the property of Arthur Greene, which stake is located 165 feet southwest of another iron stake; and running 250 feet north thence 250 feet west thence 500 feet south; thence 500 feet east thence 500 feet north thence 250 feet west to a point of closing.

MF-203
Revised March 24, 1955

RECEIVED
FEB - 1 1956

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. IdM-E 955
Contract Date MAY 21 1956

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Mitchell, State of North Carolina, described as follows:1/ Beginning on an iron stake at the center of the Ed Prospect which is located 165' S.W. of another iron stake; and running 250' North; thence 250' West; thence 500' South; thence 500' East; thence 500' North; thence 250' West to a point of closing. This property located about 1½ miles from Rebels Creek Store on the head of Rebels Creek.

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;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ 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.

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

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 25th day of January, 1956.

Arthur Green [Seal] Spruce Pine, N.C.

_____ [Seal]

_____ [Seal]

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]

EXPLORATION PROJECT CONTRACT
C. R. PHILLIPS
DOCKET NO. DMRA-4152

EXHIBIT "A"

Description of the Work

The location of the exploration work is shown in part on the map entitled, "Ed Prospect, Mitchell County, N. C. DMRA-4152 (Mica)," attached hereto and made a part hereof. The work shall consist 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 securely locked with the equivalent of a 5-tumbler jarproof lock.

2. Sink 60 feet of 2-compartment, vertical or inclined shaft on the pegmatite having minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

3. Drive 80 feet of drift and/or crosscut from the shaft having minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

All work shall be timbered as necessary.

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

Fixed Unit Costs

1. Construct:

(a) Toolhouse	$76.00 1/		
(b) Powder Magazine	26.00 1/		
(c) Exploder Magazine	15.00 1/	$ 118.00	

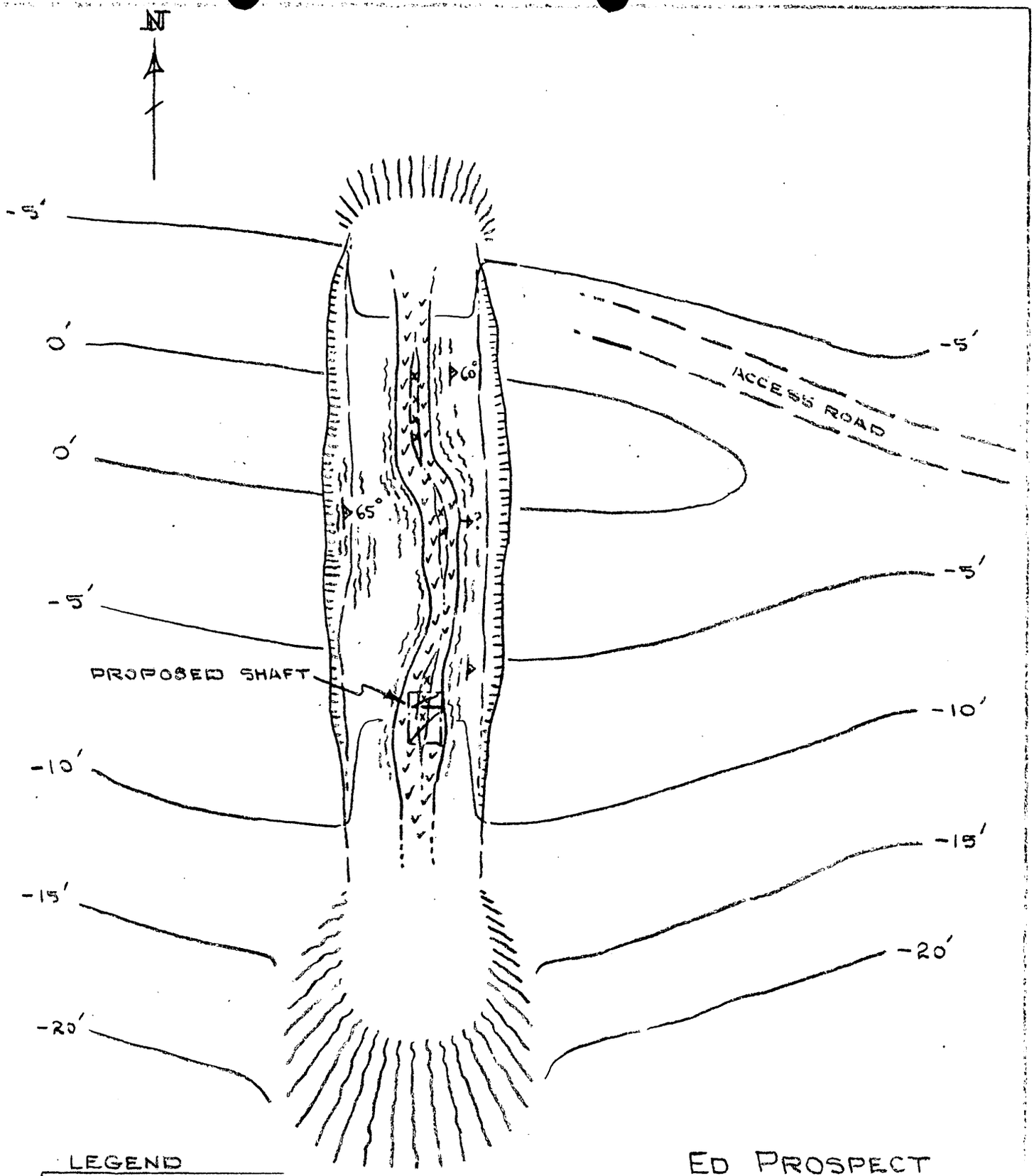
2. Sink 60 feet of 2-compartment, 5 feet by 7 feet, shaft @ $45.25/ft. — 2,715.00

3. Drive 80 feet of 5 feet by 7 feet drift and/or crosscut @ $33.20/ft. — 2,656.00

Estimated Total Cost of Project — $5,488.00

Government Participation @ 75% — $4,116.00

1/ The completed work constituted the unit.



LEGEND

- MICA BEARING PEGMATITE
- MICA SCHIST AND GNEISS

ED PROSPECT

MITCHELL COUNTY, N.C.

DMEA-4152 (MICA)

SCALE: 1" = 20'

Form 7
(56)

OFFICIAL FILE COPY

Date	Surname	Code
5/1	Anderson	600
5/2	Houk	600
5-4	Chambers	800
5/2	Selfridge	120
5/3	Shanks	110
"	Mittendorf	100
5/6	C	220
		225

600

MAY - 3 1957

Mr. C. R. Phillips
Route #3
Bakersville, North Carolina

Re: Docket No. DMEA-4152-Mica
C. R. Phillips
Ed Prospect
Mitchell County, North Carolina
Contract No. Idm-E955

Dear Mr. Phillips:

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

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

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WCAnderson:rsi 5/1/57
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

Form 7
(56)

OFFICIAL FILE COPY

Date	Surname	Code
5/1	Anderson	600
5/2	Houk	600
5-4	Chambers	800
5/3	Selfridge	120
"	Johnson	110
"	Mittendorf	100
		220

600

MAY - 3 1957

Mr. Arthur Greene

Spruce Pine, North Carolina

Re: Docket No. DMEA-4152-Mica
C. R. Phillips
Ed Prospect
Mitchell County, North Carolina
Contract No. Idm-E955

Dear Mr. Greene:

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 signed by you on January 25, 1956.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

WCAnderson:rsi 5/1/57
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/1	Anderson	600
5/2	Hand	600

600

May 1, 1957

Project Summary Report

By: Walter C. Anderson, Nonmetallic Minerals Division

1. Docket No. DMEA-4152-Mica
Contract No. Idm-E955
Ed Prospect
Mitchell County, North Carolina

Application: Form MF-103(April, 1952) received February 1, 1956.

Work Proposed by Applicant:

Bulldozing 10 hours @ $10.00/hr.	$100.00
80 feet of shaft @ $50.00/ft.	4,000.00
80 feet of drift @ $35.00/ft.	2,800.00
Total amount requested	$6,900.00

Operator: C. R. Phillips
Route 3, Bakersville, North Carolina

Operator's Property Rights: Five year mining lease on the Arthur Green property consisting of 5 plus acres, dated January 25, 1956. Consent to Lien dated January 25, 1956.

2. Contract: Form MF-200A(June 1954) dated May 21, 1956.

Work Authorized:

Construction - Toolhouse , powder and Exploder magazine	$117.00
60 feet of shaft @ $45.25/ft.	2,715.00
80 feet of drift and/or crosscut @ $33.20/ft.	2,656.00
Estimated total cost of project	$5,488.00
Government participation : 75%	$4,116.00

Amendments: None.

Work Completed: Same as authorized.
Work began June 4, 1956 and was completed September 4, 1956.
Field Team Final Report received October 1, 1956.
Operator's Final Report, dated September 4, 1956, received on September 10, 1956.
Mica Production: 15.24 pounds sold represents all the salable mica obtained from 200 pounds recovered during project.
Royalty received: $4.67. No equipment purchased under contract.

3. Audit:

Report of Review issued September 24, 1956.

Total accepted cost	$5,488.00
Government participation	$4,116.00

4. Certification of Discovery: None issued.

5. Comments:

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

Operation: Satisfactory.

Engineering: Reporting by the Operator was good.

Geologic Premise: That strategic mica occurring along the margins of the quartz core of a newly discovered pegmatite would continue in depth and extent was not correct, as only a small amount was found.

Geologic Criteria upon which work was based:

1. An undulating 3 to 6 feet wide pegmatite, exposed over a strike length of 81 feet. Poorly zoned, conformably enclosed in a highly weathered, brown mica schist and gneiss. Contains 2 foot lenticular bodies of quartz, kaolinized, sodic-plagioclase feldspar, 2 to 10% strategic mica.

2. Mica: Thin, flat books 4 to 6 inches across, ruby, no visible stains.

3. No past production.

Geologic Criteria developed during project:

1. Pegmatite: Conformably enclosed in semi-weathered mica schist and gneiss, poorly zoned, containing lenticular bodies of massive quartz up to 2 feet thick, kaolinized feldspar, muscovite and biotite.

2. Mica: Fair to poor quality, ruby, free-splitting, flat and occurs in thin books. Too small to yeild trimmed sheet.

Future Possibilities: Additional exploration is not warranted.

Recommendations: The Nonmetallic Minerals Division and the Commodity Members of the Bureau of Mines and Geological Survey concur in the Field Team's recommendation not to certify.

W. C. Anderson

W. C. Anderson
Nonmetallic Minerals Division

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 7 1957

DATE	INITIALS	CODE
3/8	C	220
		225

March 6, 1957

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4152, Idm-E955-Mica. C. R. Phillips, Bakersville, N. C. Ed Prospect, Mitchell County, North Carolina

Reference is made to your letter of March 4.

The Ed Prospect was abondoned upon completion of theDMEA contract work. The 15.24 pound sale apparently represents all the salable mica obtained from the 200 pounds recovered during the project. So far as we can ascertain, there are no unpaid royalties due the Government.

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

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

A Form 7
(2-56)

3-4 Chambers 908

OFFICIAL FILE COPY

Date	Surname	Code
3/4	Anderson	600
3/4	Houck	600
3/4	Selfridge	130
"	Johnson	110
"	Matthews	100
3/5	C	220

225

600

MAR - 4 1957

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

Re: Docket No. DMEA-4152-Mica
C. R. Phillips
Ed Prospect
Mitchell County, North Carolina
Contract No. Idm-E955

Dear Mr. Laurence:

Reference is made to the subject contract which was completed on September 4, 1956, and which the Field Team recommended not be certified.

Before we write a closing letter, we would appreciate having a report on the status of this project including the value of production and sales of mica up to March 4, 1957, the final date for certification, and whether there are any unpaid royalties due the Government. In their final report the Field Team stated that about 200 pounds of fair to poor quality mica was recovered during the operation, the value of which is unknown. Up to September 9, 1956, the Operator sold 15.24 pounds of trimmed mica at $93.39 for which a royalty of $4.67 was received.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GB)

Approved:

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

Thor H. Kiilsgaard (GB)
Member, Geological Survey

WCAnderson:gad 3/4/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson

8623

IN REPLY REFER TO:

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

RECEIVED
OCT 18 1956

October 16, 1956

Re: DMEA 4152, Idm-E955
C. R. Phillips
Ed Prospect
Mitchell Co., N. C.
Appl. Est. - $6,900.00
Rec'd. " - $5,488.00
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 $5,488 on the exploration of a "new" pegmatite. The approved sum of money was expended, principally on a 60-foot inclined shaft and 80 feet of drift.

The pegmatite was shown to have a width of from 2.5 to 6 feet and is exposed for a distance of 80 feet in a trench, 60 feet in the shaft, and 82 feet in the drift. Both ends are "open" in the drift at the bottom of the 60foot shaft.

Three quartz lenses (cores) were exposed and about 200 pounds of mica of unstated value was recovered.

As little mica was recovered while doing the underground work and no worthwhile mica-bearing potential can be inferred for the pegmatite, the examiners and the Field Team recommend that no certification of discovery be made.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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

RECEIVED
OCT - 8 1956

October 5, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4152 (mica)

Applicant: C. R. Phillips

Name and Location of Property: Ed Prospect, Mitchell County, N. C.

Contract Number: Idm-E 955

Date of Field Team Report: 9/27/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 10/1/56

Field Team Recommendation: Recommend no certification of discovery.

Comments:

1. No strategic quality mica was encountered in the pegmatite dike.
2. Only a small quantity of poor grade mica was recovered.
3. Expenditures -

Total approved	$5,488.00
Total cost	5,488.00
Gov't. share of the cost	4,116.00
Value of production during operation	Unknown

Recommendation:

I concur with the recommendation of the Field Team.

W. F. Dietrich

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.
ROOM 15 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
OCT - 1 1956

September 27, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region V, Knoxville

Subject: Field Team Final Report, DMEA-4152, Idm-E955 (Mica)
C. R. Phillips, Bakersville, North Carolina
Ed Prospect, Mitchell County, North Carolina

Enclosed are the original and three copies of the subject report.

Certification is not recommended.

Robert A. Laurence

Robert A. Laurence

Enclosures 4

Reviewed by
DMEA OPERATING COMMITTEE
10-3-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
OCT - 1 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT
FIELD TEAM, REGION V

On

DMEA-4152, Idm-E955, (Mica) ED PROSPECT
Mitchell County, N. C.

By

D. H. Amos, Geologist
Geological Survey

and

L. E. Shirley, Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
10-3-56
(date)

September 27, 1956

FINAL REPORT

RECEIVED
OCT - 1 1956

On

DMEA-4152, Idm-E955, (mica) ED PROSPECT

Operator: C. R. Phillips, R#3, Bakersville, North Carolina

Summary

Underground exploration of a newly discovered pegmatite at the prospect failed to reveal an economic deposit of strategic mica. It is recommended that no certification of discovery be issued. Additional exploratory work on the pegmatite is not warranted.

Location

The Ed Prospect is on the southwest end of Burns Mountain at an elevation of 3380 feet. It is on a ridge at the head of Rebels Creek 1.53 airline miles N 18° E of the intersection of North Carolina Highway No.80 and the Rebels Creek road (Micaville Quad. TVA, 1934 Ed., 1/24,000).

Work Performed

Contract work began June 4, 1956 and was completed September 4, 1956. Work done under the contract consisted of constructing a toolhouse, powder magazine and exploder magazine; sinking a 60-foot inclined shaft; and driving 80 feet of drift from the bottom of the shaft. An additional two feet of drifting was done at the Operator's expense.

The 60-foot inclined shaft was sunk in pegmatite which was exposed in the south end of a pre-existing trench (see attached map). Its inclination varies from - 50° to 60° in a S 85° E direction and averages about -55°. The shaft was made 5 feet by 7 feet in cross section with a partioned manway and was timbered throughout. A total of 82 feet of drifts were driven from the shaft bottom along the pegmatite; two feet being done at the Operator's expense. This level work consisted of a 38.5-foot drift in a N 5° E direction from the shaft bottom and a 43.5-foot drift in a southerly direction. The first 10 feet of the latter opening was driven S 5° E. The next 11.5 feet S 40° W and the remainder S 15° W. All drifts were timbered.

Geology

A conformable pegmatite 2.5 to 6 feet thick was exposed by the contract work. Its strike varies, especially in the south drift, but averages about N 5° E. The dip is also variable being 50° to 65° to the east. The body is poorly zoned having discontinuous lenticular bodies of massive quartz up to 2 feet thick in the central part of the pegmatite. These lenses are 10 to 35 feet apart along the strike. Kaolinized feldspar, quartz, muscovite and biotite constitute the major part of the body. The feldspar is dominantly perthite. Muscovite is almost entirely confined to margins of quartz lenses. The enclosing country rock is semi-weathered mica schist and gneiss.

About 200 pounds of fair to poor quality mica were recovered from the work done under the contract. It is ruby in color, free-splitting, flat and occurs in thin books. Some is mineral stained and much is too small in size to yield trimmed sheet.

Expenses:

(a)	Total amount of contract	$5,488.00
(b)	Total amount spent	5,488.00
(c)	Government's share of cost	4,116.00
(d)	Value of production	?
(e)	Royalties received to date	None

Recommendations

As only a small amount of strategic mica associated with widely scattered quartz lenses was discovered, it is recommended that no certification of discovery be made. Additional exploration is not warranted.

September 27, 1956

D. H. Amos, Geologist
Geological Survey

L. E. Shirley, Mining Engineer
Bureau of Mines

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

RECEIVED
SEP 12 1956

September 10, 1956

Memorandum

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

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

Subject: Docket No. DMEA-4152, Contract Idm-E955 - Final Report
C. R. Phillips, Route 3, Bakersville, N. C.
Ed Prospect (mica), Mitchell County, North Carolina

Enclosed are the original and three copies of the Operator's final report on the subject project.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 4

RECEIVED
SEP 12 1956

Spruce Pine, North Carolina
September 4, 1956

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

Re: DMEA - 4152, Idm-E 955
Ed Prospect , Mitchell Co., N.C.
Final Report

Dear Mr. Laurence:

We begain work on the above project on June 4, 1956,and completed work on September 4, 1956.

In June we constructed the powder and exploder magazines, and sank a shaft 30 feet, vein showing some small mica. In July we sank the shaft the remaining 30 feet. Vein material changing very little from top to total 60 feet of depth, then in August we drifted a distance of 80 feet which completed the work called for in the contract.

We recovered approximately 200 or 300 lbs. of mica.

We wish to thank the field team for their assistance on the Ed Project. If further details are necessary please contact us.

Yours very truly,

C.R. Phillips

C.R. Phillips

P/j

RECEIVED
SEP 7 - 1956
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

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

RECEIVED
SEP 12 1956

Ex. Cy

September 10, 1956

Memorandum

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

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

Subject: Docket No. DMEA-4152, Contract Idm-E955 - Final Report
C. R. Phillips, Route 3, Bakersville, N. C.
Ed Prospect (mica), Mitchell County, North Carolina

Enclosed are the original and three copies of the Operator's final report on the subject project.

Robert A. Laurence
Executive Officer

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

mg
Enclosures 4
cc - Operating Committee (3)
Mr. V. J. Lynch
Mr. L. E. Shirley
File

RECEIVED
SEP 1 0 1956

Spruce Pine, North Carolina
September 4, 1956

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

Re: DMEA - 4152, Idm-E 955
Ed Prospect , Mitchell Co., N.C.
Final Report

Dear Mr. Laurence:

We begain work on the above project on June 4, 1956, and completed work on September 4, 1956.

In June we constructed the powder and exploder magazines, and sank a shaft 30 feet, vein showing some small mica. In July we sank the shaft the remaining 30 feet. Vein material changing very little from top to total 60 feet of depth, then in August we drifted a distance of 80 feet which completed the work called for in the contract.

We recovered approximately 200 or 300 lbs. of mica.

We wish to thank the field team for their assistance on the Ed Project. If further details are necessary please contact us.

Yours very truly,

C. R. Phillips

C.R. Phillips

P/J

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

RECEIVED
SEP 1 3 1956

September 10, 1956

Memorandum

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

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

Subject: Docket No. DMEA-4152, Contract Idm-8955 - Final Report
C. R. Phillips, Route 3, Bakersville, N. C.
Ed Prospect (mica), Mitchell County, North Carolina

Enclosed are the original and three copies of the Operator's final report on the subject project.

Robert A. Laurence
Executive Officer

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

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Enclosures 4
cc - Operating Committee (3)
Mr. V. J. Lynch
Mr. L. E. Shirley
File

RECEIVED

SEP 1 3 1956

Spruce Pine, North Carolina
September 4, 1956

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

Re: DMEA - 4152, Idm-E 955
Ed Prospect , Mitchell Co., N.C.
Final Report

Dear Mr. Laurence:

We begain work on the above project on June 4, 1956, and completed work on September 4, 1956.

In June we constructed the powder and exploder magazines, and sank a shaft 30 feet, vein showing some small mica. In July we sank the shaft the remaining 30 feet. Vein material changing very little from top to total 60 feet of depth, then in August we drifted a distance of 80 feet which completed the work called for in the contract.

We recovered approximately 200 or 300 lbs. of mica.

We wish to thank the field team for their assistance on the Ed Project. If further details are necessary please contact us.

Yours very truly,

C.R. Phillips

C.R. Phillips

P/j

RECEIVED
SEP 13 1956

INTERIM REPORT

DMEA-4152, Idm-E955 (mica) ED PROSPECT

Operator: C. R. Phillips, Route No. 3, Bakersville, North Carolina

Location: 1.53 airline miles N17°E of the intersection of N. C. Highway 80 and Rebel Creek Road, Bakersville, Mitchell County, North Carolina

This contract has been completed without making a sizeable or commercial discovery of strategic mica. The Field Examiners are of the opinion that no additional exploration at Government expense is warranted at this prospect and certification will not be recommended.

Work completed under contract consisted of sinking 60 feet of two compartment inclined shaft and driving 80 feet of drift to the northeast and southwest from the shaft bottom. Drifts and directions are as follows: 38.5 feet N5°E, 10 feet S5°E, 11.5 feet S40°W, and 22 feet S15°W. The additional 2 feet of drift was driven at the operators own expense. In the northeast drift the pegmatite is composed of kaolinized feldspar, small scattered quartz and muscovite mica up to a point 30 feet from the shaft. From 30 to 38.5 feet a quartz core up to 10 inches thick with flanking mica - feldspar zones is well exhibited. The operator was advised to continue the work at his own expense in this direction. In the southwest drift considerable finer grained pegmatite is present, much of which is badly weathered. Biotite, small quartz and

occasional small blocks of mica were observed during the past two visits. Mica production from both drifts was scant and amounted to only a few pounds. The shaft was sunk on a -50 to -60° incline in pegmatite and was cribbed solid from the collar to the bottom - all drifts were timbered with necessary lagging and timbering is in excellent shape. A tool house, powder magazine and exploder magazine was built.

All work under the contract was completed satisfactorily and the Field Examiners recommendations were followed closely.

L. E. Shirley

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

A. R. Taylor

A. R. Taylor, Geologist
U. S. Geological Survey

September 4, 1956

INTERIM REPORT

DMEA-4152, Idm-E955 (mica) ED PROSPECT

OPERATOR: C. R. Phillips, Route No. 3, Bakersville, North Carolina

LOCATION: 1.53 airline miles N17°E of the intersection of N. C. Highway 80 and Rebel Creek Road. Bakersville, Mitchell County, N. C.

Drifting continues from the inclined shaft bottom and now totals 41 feet; 25 feet have been driven N5°E, and 16 feet have been driven S5°W to S40°W. Material encountered is primarily feldspathic containing scattered narrow ribs of quartz and associated small blocks of muscovite mica. Some of the mica examined contained a dark stain and was bent rather badly. Suggestions were made for continuing the drifts simultaneously in an effort to produce strategic mica.

The Operator was advised to timber the drifts with solid overhead lagging because of weathered pegmatite and highly weathered enclosing country rock. Compliance with all safety suggestions was indicated.

L. E. Shirley

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

A. R. Taylor

A. R. Taylor, Geologist
U. S. Geological Survey

August 21, 1956

RECEIVED
AUG - 1 1956

INTERIM REPORT

DMEA-4152, Idm-E955 (mica) ED PROSPECT

Operator: C. R. Phillips, Route No. 3, Bakersville, North Carolina

Location: 1.53 airline miles N17°E of the intersection of N. C. Highway 80 and Rebel Creek Road. Bakersville, Mitchell County, North Carolina

Inclined shaft sinking on a 50° slope has been completed to a total depth of 60 feet on this contract. The incline bottomed in pegmatite composed of kaolinized feldspar containing narrow quartz ribs and occasional blocks of muscovite mica. The operator estimates the production of about 500 pounds of mine-run block from all work accomplished to date. Drift turn-off will be made in both directions from the shaft bottom. A tool house is being constructed and magazines have been built and are now in use. The incline has been timbered solid to near bottom and is in excellent shape with separated partition and ladders. The operator is to be commended for all work completed to date.

Progress on this contract is satisfactory.

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

A. R. Taylor, Geologist
U. S. Geological Survey

July 25, 1956

JUL 1 3 1956

INTERIM REPORT

DMEA-4152, Idm-E955 (mica) ED PROSPECT

Operator: C. R. Phillips, R#3, Bakersville, North Carolina

Location: 1.53 airline miles N 17° E of the intersection of N. C. Highway 80 and Rebel Creek Road. Bakersville, Mitchell County, North Carolina.

The project is down temporarily awaiting ventilating equipment. No inspection was made. Operator expects to resume work next week.

Visited: July 13, 1956

A. L. Peyton, Mining Engineer
Bureau of Mines

S. C. Bergman

S. C. Bergman, Geologist
Geological Survey

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RECEIVED
JUL 2 - 1956

INTERIM REPORT

DMEA-4152, Idm-E955 (mica) ED PROSPECT

Operator: C. R. Phillips, R#3, Bakersville, North Carolina

Location: 1.53 airline miles N 17° E of the intersection of N. C. Highway 80 and Rebel Creek Road, Bakersville, Mitchell County, N. C.

Shaft sinking is underway with 27 feet completed. The shaft is inclined at -50°, timbered with separate manway. The Operator will continue sinking to 60 feet, then drift with the pegmatite for 80 feet.

Progress is satisfactory.

Inspected: June 20, 1956

A. L. Peyton

A. L. Peyton, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

2

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

RECEIVED
JUN - 8 1956

June 6, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region V

Subject: DMEA-4152, Idm-E955, C. R. Phillips, Bakersville, N.C.
Ed Prospect, Mitchell County, North Carolina

Transmitted are the original and two copies of the subject contract. The usual distribution of the other copies has been made by this office.

Robert A. Laurence
Robert A. Laurence

Enclosures 3

DOCKET COPY
Surname:

Hopkins
Houk
Chandler
Selfridge
Johnson

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

MAY 21 1956

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

Re: Docket No. DMEA-4152-nica
C. R. Phillips
Ed Prospect
Mitchell County, North Carolina

Dear Mr. Laurence:

Enclosed are the original and five copies of a proposed contract which have been signed by the Administrator for the Government with effective date as shown. Attachments to the contract are Annex I, Comment to Lien, Exhibit "A"(2 pages) and map of the Ed Prospect. Two extra copies of Annex I, Exhibit "A" and the map are enclosed for the use of the Field Team.

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

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

Copies of memoranda dated May 1 and 8, 1956, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

Approved:

/s/ Robert W. Geehan (DLB)
Member, Bureau of Mines

Thor H. Kiilsgaard (DLB)
Member, Geological Survey

George C. Selfridge
Chairman, Operating Committee (DLB)

JHopkins:ms 5/15/56
Copy to: Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Hopkins
Admr. R. File

Enclosures: 12

R.L.B.

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

RECEIVED
MAY 9 - 1956

May 8, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4152 (mica)

Applicant: C. R. Phillips

Name and Location of Property: Ed Prospect, Mitchell Co., N. C.

Date of Field Team Report: 4/25/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 5/2/56

Field Team Recommendation: Recommend a unit-cost exploration program.

Comments:

1. This new pegmatite occurrence is characterized by strategic mica localized in zones adjacent to the quartz core.

2. This deposit appears to have possibilities for the development of strategic mica.

3. Total estimated costs are in the amount of $5,708.00

Recommendation:
I concur with the field team's recommendation for a unit-cost exploration program.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

RECEIVED
MAY 2 - 1956

May 1, 1956

Re: DMEA 4152 (Mica)
C. R. Phillips
Ed Prospect
Mitchell Co., N. C.
Application Est. - $6,900.00
Recommended Est. - $5,708.00

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 exploring by bulldozing, shaft and drifting a new prospect.

The examiners found a stripped pegmatite with a quartz core adjacent to which is very high quality strategic mica. The mica constituted from 2 to 10 percent of the pegmatite.

The examiners and the Field Team recommend sinking a 60-foot shaft and drifting 80 feet, at an estimated cost of:--

Sinking	$2,818.00
Drifting	2,775.00
Buildings	115.00
	$5,708.00

I concur with the recommendations of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

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

RECEIVED
APR 27 1956

April 25, 1956

Memorandum

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region V

Subject: Examination Report- DMEA-4152, Ed Prospect (mica)
C. R. Phillips, Applicant, Bakersville, N. C.

Enclosed are ~~six~~ 4 copies of the subject report and nine extra copies of the map.

The Field Team recommends approval of a unit-cost contract for the work outlined in the examination report. This is a new pegmatite occurrence, with strategic mica apparently localized in zones adjacent to the quartz core, and the prospect of a significant new reserve seems excellent.

Robert A. Laurence
Robert A. Laurence

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
APR 27 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT BY REGION V

On

DMEA-4152, ED PROSPECT (mica)
Mitchell County, N. C.

By

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

and

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

April 25, 1956

FIELD EXAMINATION REPORT
On

DMEA-4152, ED PROSPECT (mica), N. C.

RECEIVED
APR 27 1956

Mitchell County, North Carolina

Applicant: C. R. Phillips, Bakersville, North Carolina

Over 80 strike-length feet of excellent mica-bearing pegmatite is exposed in a 100-foot long bulldozer trench. The previously unexplored pegmatite contains roughly 2 to 10% by volume of very high quality ruby muscovite. The Field Examiners recommend a unit cost contract be granted on the basis of strong exposed structural continuity and excellent mica potential.

Location, etc.

The prospect was examined February 27, 1956, in the company of Ed Huskins, and Mr. Cecil Phillips. Association with previous DMEA contracts has proved their ability to undertake DMEA obligations.

The Ed Prospect is located on the southwestern extremities of Burns Mountain, at an elevation of approximately 3380 feet. It is on the crest of a ridge at the head of Rebels Creek, 1.53 airline miles, N 17° 31' E from the intersection of Highway 80 (104 on Quadrangle Map) and the Rebel Creek road (Micaville Quadrangle, TVA, 1934 Ed., 1/24,000).

Description:

A bulldozer trench, 100 feet long by 18 feet wide by 5 feet maximum depth, has been cut almost due north-south. Continuous undulating 3 to 6 feet wide pegmatite is exposed along strike for a distance of 81 feet with no end terminations visible. The pegmatite strikes generally north-south and dip 60 to 65° east. It is conformably enclosed in a highly weathered, brown, mica schist and gneiss. It is poorly zoned, with discontinuous lenticular bodies of massive quartz up to 2 feet thick, occupying

the central portions of the structure. Approximately 60% of the pegmatite is composed of somewhat kaolinized, sodic-plagioclase feldspar, 2 to 10% of strategic muscovite, and minor to rare amounts of biotite and serecite.

The strategic muscovite occurs along the margins of the quartz core and is found in thin, flat books 4 to 6 inches in diameter. It is a ruby color with no visible mineral stains. Some weathering (clay staining, bleaching) and slight edge cracking is present in the mica. Recovery of trimmed sheet out of the block, should average around 15%. There has been no production or sales from this deposit, and no equipment or other improvements are present at the site.

Recommendations:

T he Field Examiners recommend sinking 60 feet of 5 x 7 foot, 2-Compartment inclined shaft on the pegmatite, and to drift along strike, north and south from the shaft for a total distance of 80 feet to explore and outline mica-bearing structures within the pegmatite. The shaft site is to be at one of the quartz-core pods, as indicated on the map.

Estimated Costs:

Toolhouse	$76.00	
Powder Magazine	25.00	
Exploder Magazine	14.00	$ 115.00

Sink 60 feet of 2-compartment, inclined or vertical s shaft 5 x 7' crosssection, on and in pegmatite (35 shifts)

Labor:

1 - Miner @ $1.50/hr	420.00
1 - Hoistman @ $1.25/hr.	350.00
2 - Laborers @ $1.00/hr.	560.00

Equipment (rental):

Compressor and drill, @ $230/Mo	$402.50
Hoist @ $50/Mo.	87.50
Pump @ $20/Mo.	25.00

Supplies:

Explosives	198.00
Drill steel	108.00
Gasoline and oil	123.00
Small tools and pipe	120.00
Timber, 1800 b.f. @ $65/M	117.00
Miscellaneous	102.00
Liability Ins.	133.00
Social Security	26.60
State Unemployment Ins.	28.85
Sales Tax	16.55

Estimated cost of shaft sinking (60 ft.) $2,818.00

Drive 80 ft of drift and/or crosscut of 5' x 7' cross section in pegmatite to explore the strike length extensions of the structure (35 shifts)

Labor:

1 - Miner @ $1.50/hr.	420.00
1 - Hoistman @ $1.25/hr.	350.00
2 - Laborers @ $1.00/hr.	560.00

Equipment (rental):

Compressor and drill @ $230/Mo.	402.50
Hoist @ $50/Mo.	87.50
Pump @ $20/Mo.	25.00

Supplies:

Explosives	245.00
Drill steel	120.00
Gasoline and oil	150.00
Small tools and pipe	90.00
Miscellaneous	120.00
Liability Ins.	133.00
Social Security	26.60
State Unemployment Ins.	28.85
Sales Tax	16.55

$2,775.00

Total estimated cost of project..... $5,708.00

S. C. Bergman, Geologist, U. S. G. S.
A. R. Taylor, Geologists, U. S. G. S.
A. L. Peyton, Mining Engineer.

DOCKET COPY
Surname:

Hopkins
Houk
Selfridge
Hyman

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

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

FEB 10 1956

Re: Docket No. DMEA-4152-Mica
C. R. Phillips
Ed Prospect
Mitchell County, North Carolina

Dear Mr. Lawrence:

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

Copies of memoranda dated February 6 and 7, 1956 by Mr. N. R. Nelson, USGS and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

Approved:

/s/ Robert W. Geehan (RWG)
Member, Bureau of Mines

Thor H. Kiilsgaard (THK)
Member, Geological Survey

Enclosures: 4

JHopkins:ms 2/9/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Hopkins

K.G.S.

DOCKET COPY
Surname:

Hopkins
Houk
Beehan
Kilgaard
Selfridge
Fjeldsen

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

600

FEB 10 [redacted]

Mr. C. R. Phillips
Route #3
Bakersville, North Carolina

Re: Docket No. DMEA-4152-Mica
C. R. Phillips
Ed Prospect
Mitchell County, North Carolina

Dear Mr. Phillips:

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. Mitchelmori (for)

Administrator

JHopkins:ms 2/9/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Hopkins
Field Team, Region V

R.C.H.

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

RECEIVED
FEB - 8 1956

February 7, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4152 (mica)

Applicant: C. R. Phillips

Name and Location of Property: Ed. Prospect, Mitchell Co., N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 2/2/56

Comments:

1. The applicant states that this is a new prospect. No data available in this office on this property.

2. From the limited information presented, it is difficult to determine if an exploration program is justified or if the proposed plan would be the best method of exploring this property.

Recommendation:

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

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

February 6, 1956

Re: DMEA-4152
C. R. Phillips
Ed prospect
Mitchell Co., N. C.
$6,900 - 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 participation of the Government in an exploration work program on a new pegmatite prospect.

The work proposed consists of bulldozing, shaft sinking and drifting as follows:

Bulldozing, 10 hours at $10.00/hr.	$ 100.00
Shaft, 80 feet at $50.00/ft.	4,000.00
Drifting, 80 feet at $35.00/ft.	2,800.00
	$6,900.00

No information supporting the opinion that mica may be found by exploration work is given.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

RECEIVED
FEB - 7 1956

February 2, 1956
Subject: DMEA-4152
Re: Exploration Assistance
Ed Prospect

Mr. C. R. Phillips
Route 3
Bakersville, North Carolina

My dear Mr. Phillips:

The receipt of your application dated January 25, 1956, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4152 and referred to the Nonmetallic Minerals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
FEB - 1 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. DMEA-4152
Metal or Mineral Mica
Date Received 2-1-56
Estimated Cost $6,900.00
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: C. R. Phillips
Route 3
Bakersville, N. C.

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

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

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

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

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

(*b*) State any mine name by which the property is known. Ed Prospect on Art Greene property

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

(*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 Do not own land.

(*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 sheet.

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

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

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

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

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

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

(*c*) The work will start within 30 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. Now on file with DMEA.

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: See sheet.

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

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

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

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

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

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

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

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

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

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes. Will furnish required 25%.

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

[X] 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 January 25, 1956

C. R. Phillips
(Applicant)

By C. R. Phillips

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

RECEIVED
FEB - 1 1956

MF-103 (Continuation sheet)

4. (a) No previous operations have been conducted. This is a new prospect.

(b) No past production.

(c) Outcropping of vein indicates that mica may be found by exploration work.

(d) Project can be made accessible to roads and shipping by bulldozing about 10 hours for short access road.

(e) Manpower, materials, equipment and supplies are available. Power is about 2000 feet away.

5. (b) We propose to bulldoze a short road access, sink a 5'x7' shaft to a depth of 80'; then drift best way with vein a distance of 80'.

6. Estimate of costs:

Bulldozing 10 hrs. @ 10.00 per hr.	$ 100.00
80' Shaft @ $50.00 per ft.	4000.00
80' Drift @ $35.00 per ft.	2800.00
Total estimated cost of project	$ 6900.00

RECEIVED
FEB - 1 1956

MINING LEASE

State of North Carolina Mitchell County:

This indenture made this 25th day of January, 1956, ~~1955~~,

between Arthur Green

of Mitchell County and State of North Carolina as party of the first part, and known as lessor, and C. R. Phillips

of Mitchell County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the party of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor, and in consideration of the agreements 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 his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written to wit:

Beginning on an iron stake at the center of the Ed Prospect which is located 165' S.W. of another iron stake: and running 250' North; thence 250' West; thence 500' South; thence 500' East; thence 500' North; thence 250' West to a point of closing. This property located about 1½ miles from Rebels Creek Store, on the head of Rebels Creek. 6.7 acres more or less

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the condition of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, and particularly mica, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operatins during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. 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 this lease and the continuance of said lease, but the said party of the second part shall have the right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said part of the first part, or his or their heirs or assigns, a rental royalty of 1/8

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the party of the first part or by the continuation of any mining operations then being conducted. The lessor reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real estate described and set forth in this lease for a total purchase price of _____, said purchase price to be paid in full within three years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.

BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of two years from the date of this instrument, the lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor. The lessee agrees that during the period of this lease or the continuance of this lease work in said mines or exploration for new mines within the area leased 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.

Witness: Kenneth R McKinney
Notary Public
My comm Expires 8/17/57

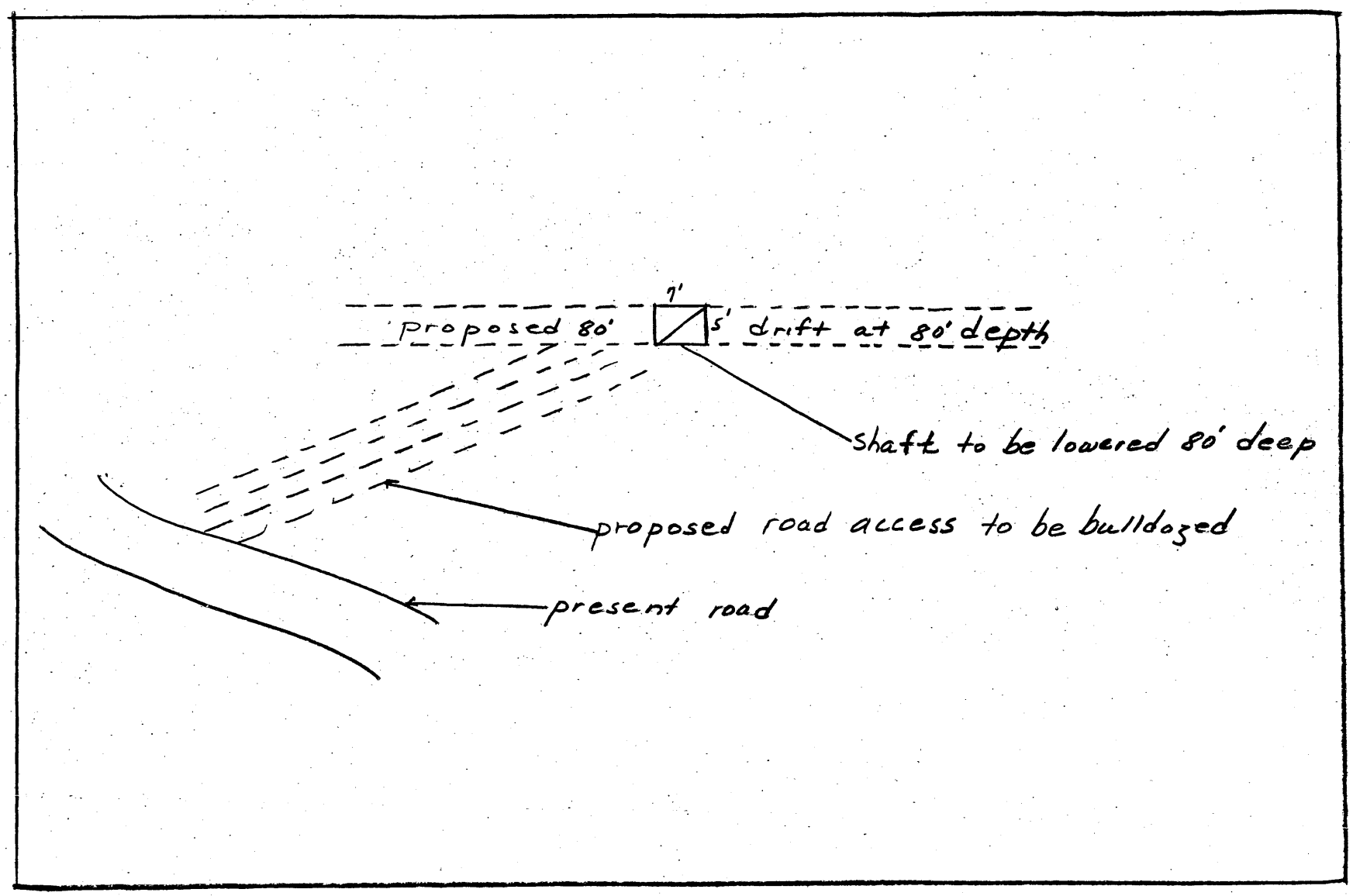
Arthur Green (Seal)

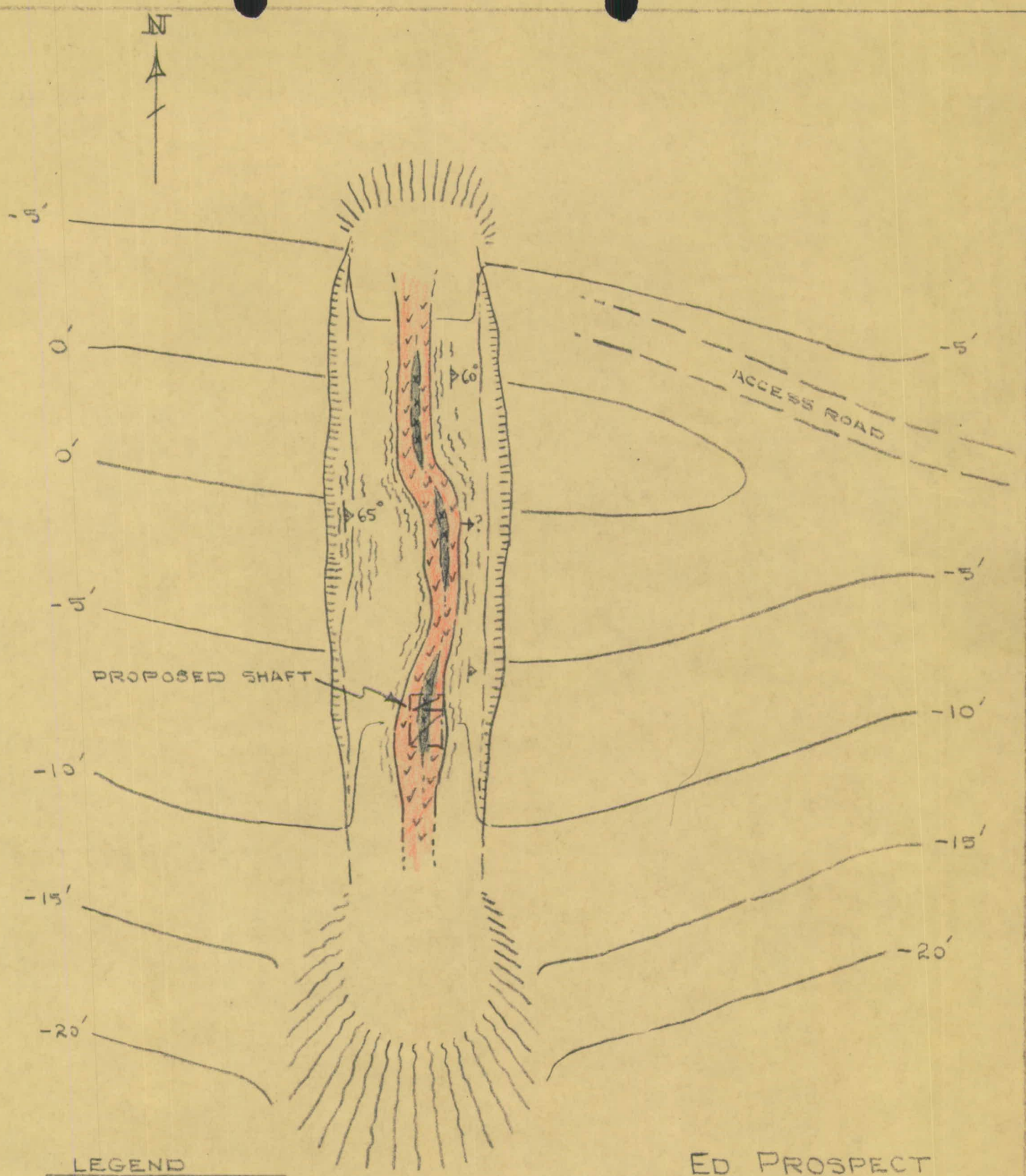
_____ (Seal)

_____ (Seal)

Ed Prospect

Mitchell Co.
N. C.





LEGEND

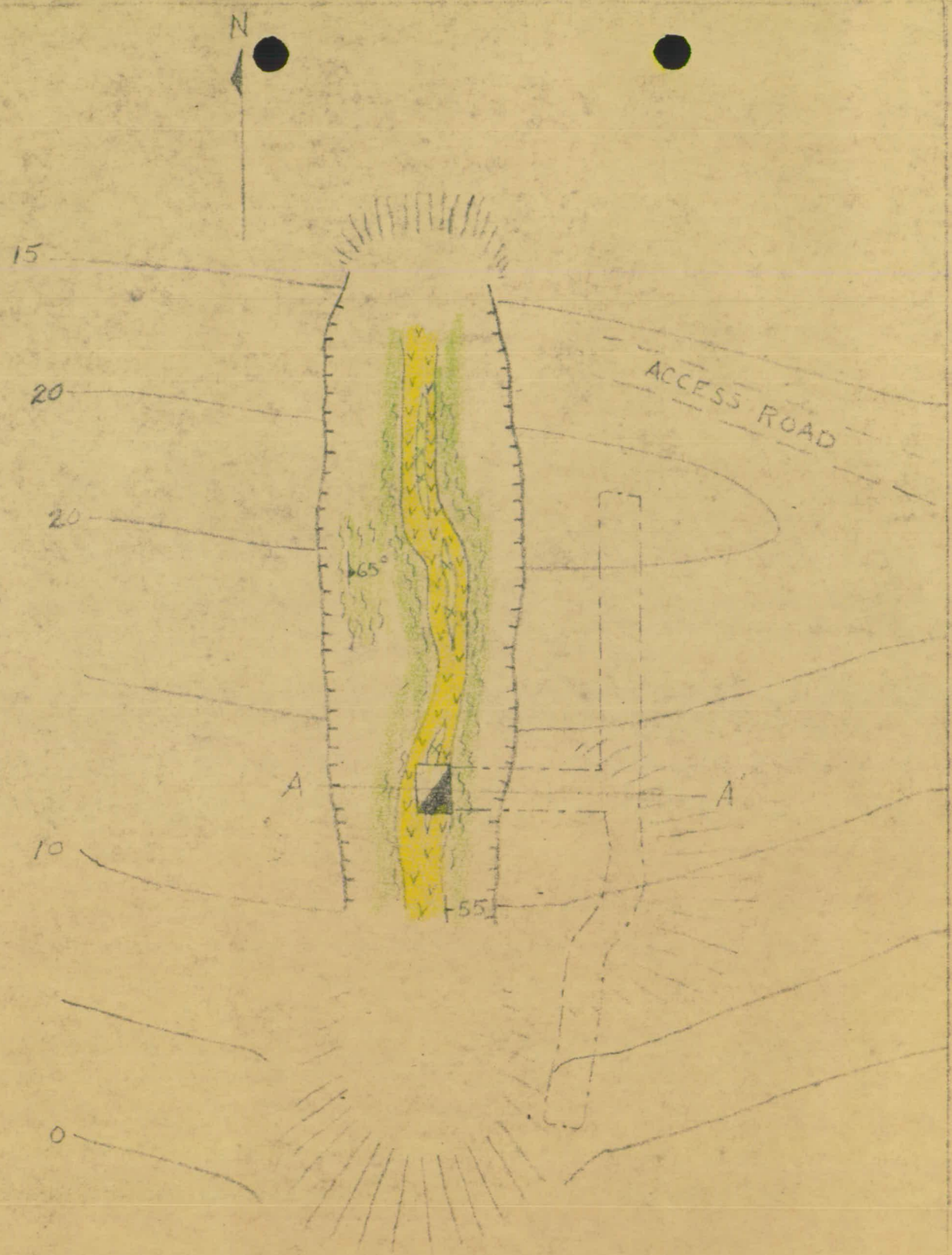
- MICA BEARING PEGMATITE
- Qtz core
- MICA SCHIST AND GNEISS

ED PROSPECT

MITCHELL COUNTY, N.C.

DMEA-4152 (MICA)

SCALE: 1" = 20'



PLAN 60' - LEVEL

SECTION A-A'

LEGEND

vv pegmatite

xx quartz

mica schist & gneiss

ED PROSPECT

MITCHELL COUNTY, N. C.

DMEA-4152 (MICA)

Scale 1" = 20'

9/24/56