DMEA 3574

DOCKET INDEX

ACTION DOCUMENTS

1	APPLICATION	DATE RECEIVED	11/18/54
2	CONTRACT	DATE	1/21/55
3	TERMINATION AGREEMENT	DATE	
4	CERTIFICATION	DATE	
5	AUDIT REPORT	DATE	
6	AMENDMENTS - NUMBERS	DATE	

Docket Copy

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1955

MF-200A
(Revised June 1954)

Docket No. DMEA -357A

Commodity Mica

Contract No. Idm-E- 759

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

It is agreed this 21st day of January, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Millard Burleson, Wilson Burleson and D. C. Keller, partners d/b/a/ Burleson & Keller Mining Co.,

whose mailing address is c/o Millard Burleson Elizabethton, Tennessee,

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

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] Lease, [7] unrecorded 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:

None

(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:

Owner's 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 ..... The work to be performed is described in Exhibit "A." The Operator on or before FEB 21 1955 shall commence the work, and on or before 4 mos. from date of contract (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 $4,688.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $3,516.00: *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.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

[redacted] (Operator)

By [redacted]

[redacted]

By [redacted]

[redacted]

[redacted]

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

Bureau of Mines
RECEIVED
FEB 17 1965

EXPLORATION PROJECT CONTRACT
BURLESON & KELLER MINING CO.
DOCKET NO. DMRA-3574

ANNEX I

The land referred to in Article 2 of the Contract was leased by Wilson Burleson, Millard Burleson and Pearl B. Keller to Wilson Burleson, Millard Burleson and D. C. Keller by an instrument dated November 15, 1954, and is described as follows:

Beginning at the center of the McKinney Cove Mine Prospect located 40 poles S.E. of a Hickory tree on W. B. McKinney's corner and running North 250'; thence West 250'; thence South 500'; thence East 500'; thence North 500'; thence West 250'. This property located in McKinney Cove, Mitchell County, 3 miles Northwest of Bakersville.

DEPARTMENT OF THE INTERIOR
Bureau Mines Minerals
RECEIVED
FEB 17 1958

EXPLORATION PROJECT CONTRACT
BURLESON & KELLER MINING CO.
DOCKET NO. DMEA-3574

EXHIBIT "A"

The area where the work is to be performed is shown on the attached sketch entitled, "Sketch of McKinney Cove Mine, Mitchell Co., N. C. DMEA 3574 (mica)." The work consists of the following:

1. Rehabilitate and clean out existing 40 feet of open cut.

2. Construct:

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

(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 1 foot.

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

The toolhouse may be unflooored; 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; and shall be braced at the corners. Lumber for these boxes shall be smooth on the inside of the boxes. No metal shall be exposed, and the lids shall be securely locked with the equivalent of a 5-tumbler jar-proof lock.

3. Sink a 40-foot incline in the pegmatite, starting from the bottom of the open cut. The incline shall have minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

4. From the bottom of the incline, drive on the pegmatite not more than 75 feet of drifts and/or crosscuts 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, inclination, direction and extent of all work are subject to approval of the Government.

Fixed Unit Costs

Rehabilitate and clean out 40 feet of open cut 1/	$ 150.00	
Construct:		
Toolhouse 1/	75.00	
Powder magazine 1/	25.00	
Exploder magazine 1/	13.00	
Sink 40 feet of incline shaft @ $45.00/ft.	1,800.00	
Drift and/or crosscut 75 feet @ $35.00/ft.	2,625.00	
Estimated Total Cost of Project		$4,688.00
Government participation @ 75%		$3,516.00

1/ The completed work constitutes the unit.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 18 1954

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1955

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Mitchell, described as follows:1/

Beginning at the center of the McKinney Cove Mine Prospect located 40 poles S.E. of a Hickory tree on W.D. McKinney's corner and running North 250', East 250'; thence South 500; thence East 500'; thence North 500'; thence West 250' to Beginning. This property located in McKinney Cove, Mitchell County, 9 miles Northwest of Bakersville.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Durham & Roller Mining Company
c/o Millard Durham
Jellico Grocery Co., Elizabethton, Tenn.

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract or any amendment thereof shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract or any amendment thereof there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

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/ Insert the name of the Operator as it will appear in the exploration project contract.

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

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

_____

_____

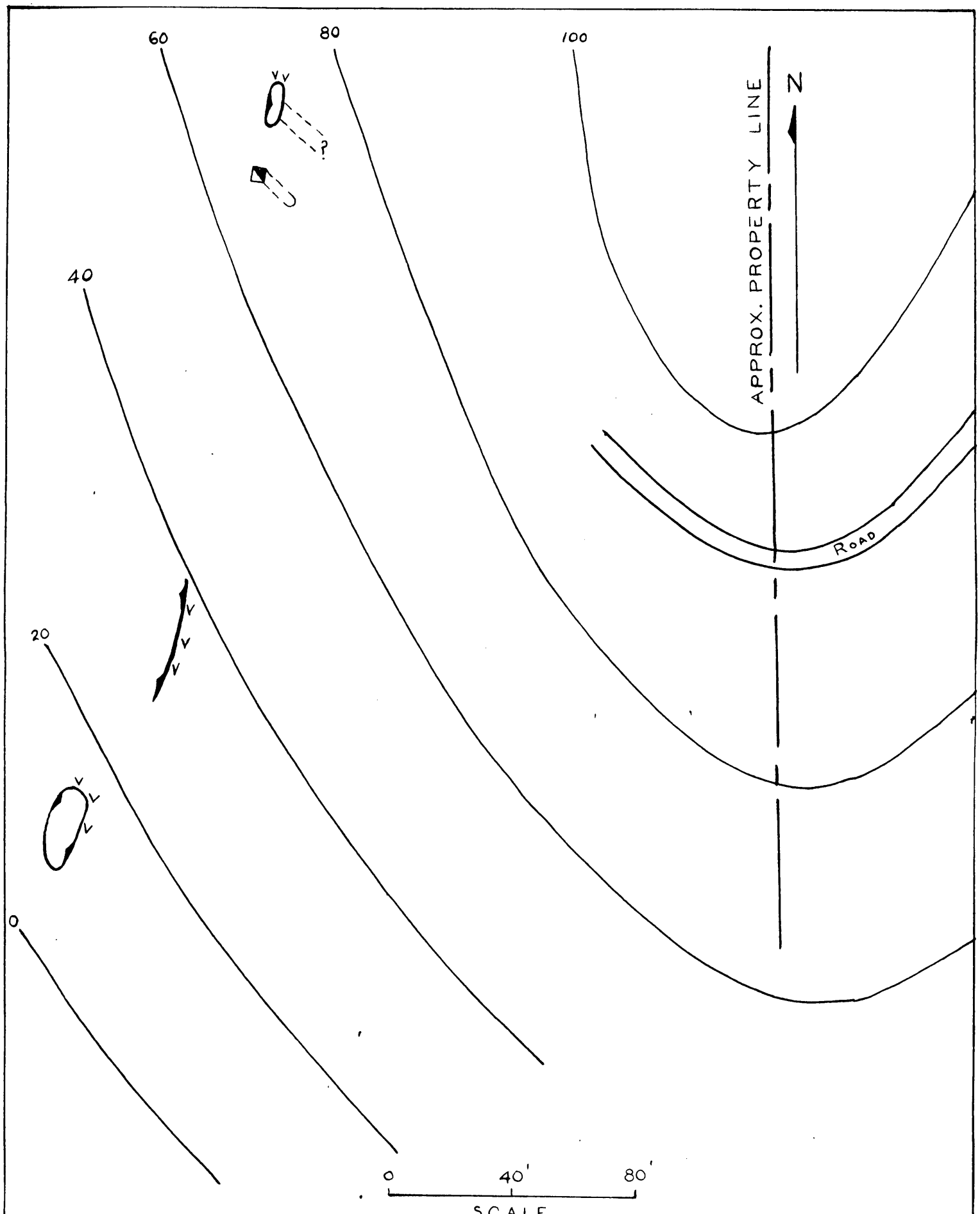
_____

Dated this 15 day of November, 1954.

Willard Buchanan [Seal] c/o Jellico Grocery Co. Elizabethton, Tenn.

Willard Buchanan [Seal] " "

Pearl B. Keller [Seal] Rt. 8, Johnson City, Tenn.



SKETCH OF
McKINNEY COVE MINE
MITCHELL CO., N.C.

DMEA-3574 (mica)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/25	Horch	600
4-25	Chambers	800
4/25	Selfridge	120
		110
		~~100~~
4/29	C	220
		225

600

APR 26 1957

Burleson & Keller Mining Co.
c/o Millard Burleson
Jellico Grocery Company
Elizabethton, Tennessee

Re: Docket No. DMEA-3574-Mica
Burleson & Keller Mining Co.
McKinney Cove Prospect
Mitchell County, North Carolina
Contract No. Idm-E759

Gentlemen:

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

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

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

Sincerely yours,

Frank P. Johnson
ACTING Administrator

LGHouk:rsi 4/24/57
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
4/25	[illegible]	600
4-25	Chambers	600
4/26	[illegible]	800
		120
4/26	[illegible]	110
		~~100~~
		220

600

APR 26 1957

Mr. Wilson Burleson
c/o Jellico Grocery Co.
Elizabethton, Tennessee

Re: Docket No. DMEA-3574-Mica
Burleson & Keller Mining Co.
McKinney Cove Prospect
Mitchell County, North Carolina
Contract No. Idm-E759

Dear Mr. Burleson:

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

This correspondence relates to the Owner's Consent to Lien signed by you on November 15, 1954.

Sincerely yours,

Frank E. Johnson
ACTING Administrator

Enclosure

LGHouk:rsi 4/24/57
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
4/26	[illegible]	600
4-26	Chambers	600
		800
4/26	Selfridge	120
		110
		~~100~~
		220

600

APR 26 1957

Mrs. Pearl B. Keller
Route 8
Johnson City, Tennessee

Re: Docket No. DMEA-3574-Mica
Burleson & Keller Mining Co.
McKinney Cove Prospect
Mitchell County, North Carolina
Contract No. Idm-E759

Dear Mrs. Keller:

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

This correspondence relates to the Owner's Consent to Lien signed by you on November 15, 1954.

Sincerely yours,

Frank E. Johnson
ACTING Administrator

Enclosure

LGHouk:rsi 4/24/57
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
4/24	Houk	600
4-25	Chambers	600
4/26	Jeffrey	800
		120
		110
		~~100~~
		220

600

APR 26 1957

Mr. Hillard Burleson
c/o Jellico Grocery Co.
Elizabethton, Tennessee

Re: Docket No. DMEA-3574-Mica
Burleson & Keller Mining Co.
McKinney Cove Prospect
Mitchell County, North Carolina
Contract No. Idm-E759

Dear Mr. Burleson:

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

This correspondence relates to the Owner's Consent to Lien signed by you on November 15, 1954.

Sincerely yours,

Frank P. Johnson
ACTING Administrator

Enclosure

LGHouk:rsi 4/24/57
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

April 23, 1957

Project Summary Report

By: L. G. Houk

1. Docket No. DMEA-3574 - Mica
Contract No. Idm-E759
Property: McKinney Cove Mine
Mitchell County, North Carolina

Application: MF-103 (April 1952) received November 18, 1954.

Work proposed by applicant:

40 hrs. bulldozing @ $10.00/hr.	$400.00
Sink 5x7' shaft 100ft. @$50.00/ft.	5,000,00
Drift 100 ft. @ $35.00/ft.	3,500.00
	$8,900.00

Operator: Burleson & Keller Mining Co.
c/o Millard Burleson
Elizabethton, Tennessee

Operator's property rights: Five year mining lease, dated November 15, 1954.

Owner's Consent to Lien, dated November 15, 1954.

2. Contract dated January 21, 1955.

Work authorized:

Rehabilitate and clean out 40 feet of opencut	150.00
Construction: Toolhouse, Powder magazine, Exploder magazine	113.00
Sink 40 feet of incline shaft @ $45.00/ft.	1,800.00
Drift and/or crosscut 75 feet @ $35.00/ft.	2,625.00
Estimated total cost of project	$4,688.00
Government participation 75%	$3,516.00

Amendments: None

Work completed:

Rehabilitation and repairs	$150.00
Construction: Toolhouse, Powder and exploder magazines	113.00
75 feet of drifting @ $35.00/ft.	2,625.00
40 feet incline shaft @ $45.00/ft.	1,800.00
Total cost of project	$4,688.00
Government participation 75%	$3,516.00

Work began on February 7, 1955, and was completed May 18, 1955.
Field Team Final Report received June 10, 1955.
Operator's Final Report received May 23, 1955.
Royalty received $.85 for total production during operation and up to February 6, 1956.
No equipment was purchased under the contract.

3. Audit - Report of Review issued June 6, 1955.

Total accepted cost	$4,688.00
Government participation 75%	$3,516.00

4. Certification of discovery - none recommended.

5. Comments: Produced 150# of mica which cut to 2 pounds and sold for $17.00. Government royalty of $.85 was received.

How conducted: Satisfactorily

Operation: Good

Engineering: Good

Geological premise: Possibility of second shoot on north pegmatite.

Geological criteria upon which work was based: Removal of 70 feet of mica shoot on southwest end of pegmatite - pegmatite well zoned.

Criteria developed during project: Pegmatite emplaced in fault zone. No zoning apparent - post pegmatite faulty - no mica segregations or shoots located except one in shaft that produced 150 pounds.

Future possibilities: Operator planned at time of termination to work southwest of incline. Nothing has been received on the results of this work.

Recommendations: The Nonmetallic Minerals Division concurs with the Field Team that no certification of discovery or development be issued. The commodity members of the Geological Survey and the Bureau of Mines concur.

IN REPLY REFER TO:

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

September 29, 1955

Re: DMEA 3574
Burleson & Keller Mining Co.
McKinney Cove Mine
Mitchell Co., 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 was approved for $4,688.00 and that amount was expended. Work done consisted of a 40-foot inclined shaft and 75 feet of driving from it.

An unzoned conformable pegmatite with a maximum thickness of 9 feet was partially explored. No mica of strategic quality was discovered and the examiners recommend that no certificate of discovery be issued.

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

N. E. Nelson

N. E. Nelson

RECEIVED
SEP 30 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

RECEIVED
JUN 28 1955

June 28, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 3574 (mica)

Applicant: Burleson & Keller Mining Company

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

Contract Number: Idm-E 759

Date of Field Team Report: June 8, 1955

Date Rec'd by Br. of Ceramic & Fertilizer Materials: June 17, 1955

Field Team Recommendation: No certification of discovery

Comments:

1. Sufficient work has been done to indicate the pegmatite is not suitable for producing large quantities of strategic mica.

2. Expenditures -

Total approved	$4,688.00
Total cost	4,688.00
Gov't share of the cost	3,516.00
Value of production during operation	None

Recommendation:

I concur with the field team's recommendation that no certificate of discovery should be issued.

W. F. Dietrich

W. F. Dietrich

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

COPY

ROOM 13, POST OFFICE BLDG.
KNOXVILLE 2, TENN.
June 8, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region 5, Knoxville, Tennessee

Subject: Final Report, DMEA-3574, Idm-E759 (mica) Burleson & Keller Mining Co., Elizabethton, Tenn. McKinney Cove Mine, Mitchell County, N. C.

Enclosed are four copies each of the Operator's and Field Team final reports on the subject exploration project. We agree with the recommendation that certificate of discovery should not be issued.

/s/ ROBERT A. LAURENCE
Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

/s/ V. J. LYNCH
V. J. Lynch, Member
Bureau of Mines

6-15-55

RECEIVED
JUN 10 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT
FIELD TEAM, REGION V

On

DMEA-3574, McKINNEY COVE MINE (mica)
Mitchell County, N. C.

By

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

and

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

Reviewed by
DMEA OPERATING COMMITTEE
6-15-55
(Date)

FINAL REPORT

RECEIVED
JUN 10 1955

DMEA-3574, Idm-E759, MCKINNEY COVE MINE

Operator: Burleson and Keller Mining Co., c/o Millard Burleson, Elizabethton, Tennessee

Location: Near the crest of Lick Ridge at its junction with Meadow Mt. 2.88 airline miles N. 33° E. of Bakersville, Mitchell County, N. C.

Exploration conducted northeast of a previously mined mica shoot failed to discover a parallel one. It is recommended that no certification of discovery be issued. Additional exploratory work with Government assistance is not warranted.

The work outlined in the contract began on February 7, 1955, and was completed May 18, 1955. An existing 40-foot vertical shaft was cleaned out and rehabilitated and a toolhouse, powder and exploder magazines were constructed. From the bottom of this shaft a 40-foot incline was sunk in a S. 55° E. direction at a -48° inclination. A total of 75 feet of laterals consisting of a 70-foot drift and a 5-foot crosscut were driven from the bottom of the incline. The location and directions of these openings are shown on the attached sketch map.

An essentially conformable pegmatite having a maximum thickness of 9 feet but averaging about 2.5 feet was exposed by the incline and the laterals. It strikes N. 15°- 60° E. and dips 35-50° to the southeast. The body is composed of plagioclase, quartz, and sparse muscovite. No well-defined zoning is apparent. The pegmatite is emplaced in a fault zone as evidenced by slickensides on both wall rock contacts. Numerous past-pegmatite faults have locally displaced the body short distances. The enclosing country rock is hornblende gneiss except for a zone of biotite schist about 6 inches thick adjacent to both contacts.

No mica of strategic quality was discovered by the work nor were any reserves revealed. The Operator plans to do some exploration southwest of the incline at his expense.

Expenditures:	(a)	Total approved	$4,688.00
	(b)	Total cost of project	4,688.00
	(c)	Government's share of cost	3,516.00
	(d)	" " unexpended	None
	(e)	Value of production during opr.	None

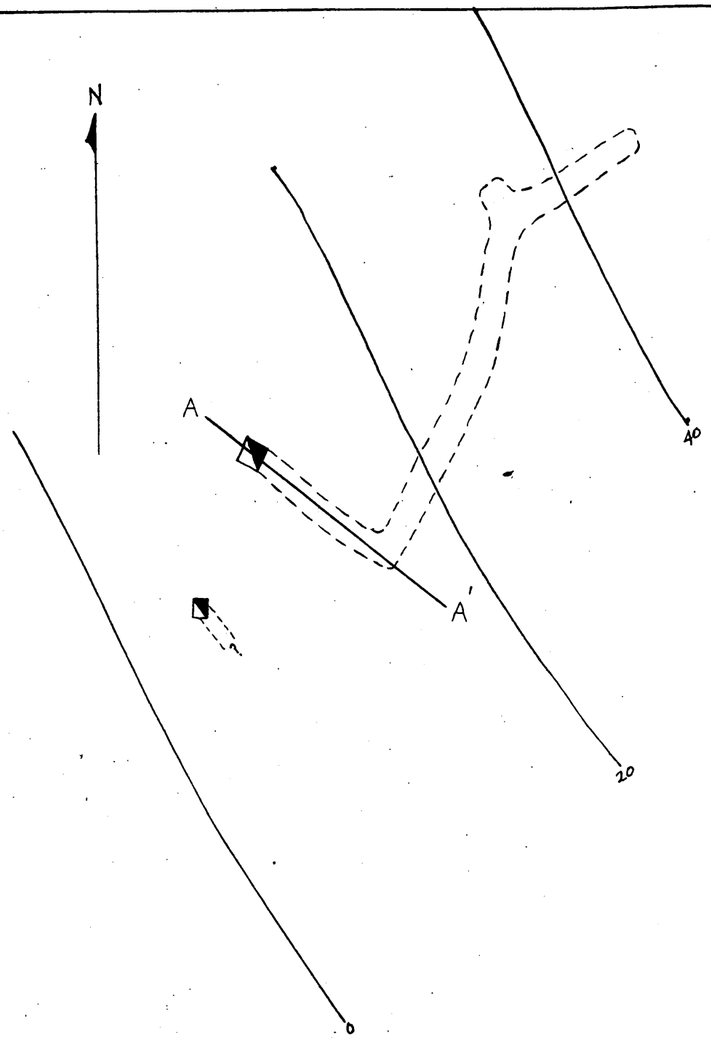
The work performed under the contract was conducted in an efficient and satisfacyory manner. No equipment was purchased under the contract.

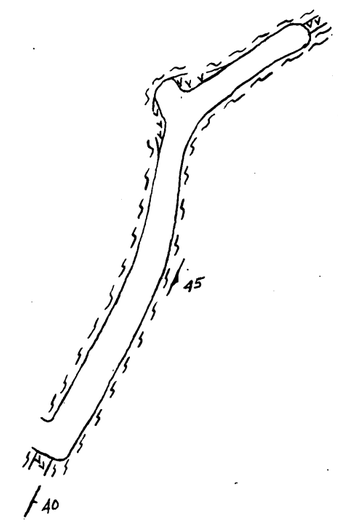
May 27, 1955

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

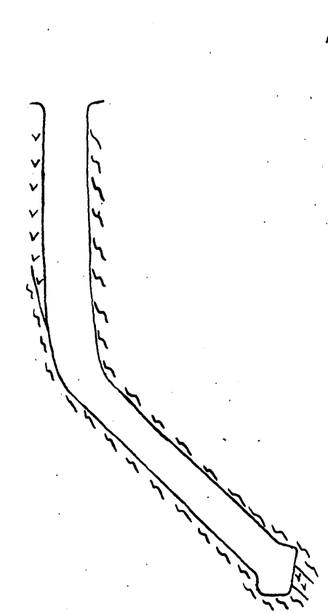
L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

2





PLAN OF DRIFT



SECTION A-A'

LEGEND
- ~~ hornblende gneiss
- v v pegmatite
- — contact
- strike & dip of foliation
- strike & dip of contact
- ■ shaft
- --- outline of underground works

0 20' 40'
scale

SKETCH OF
McKINNEY COVE MINE
MITCHELL CO., N.C.

JUN 8 - 1955

DMEA - 3574

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
ROOM 1 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

June 8, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region 5, Knoxville, Tennessee

Subject: Final Report, DMEA-357~~5~~4, Idm-E759 (mica) Burleson & Keller Mining Co., Elizabethton, Tenn. McKinney Cove Mine, Mitchell County, N. C.

Enclosed are four copies each of the Operator's and Field Team final reports on the subject exploration project. We agree with the recommendation that certificate of discovery should not be issued.

Robert A. Laurence
Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

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

Reviewed by
DMEA OPERATING COMMITTEE

(date)

RECEIVED
JUN 10 1955

Elizabethton, Tennessee
May 20, 1955

Mr. Robert A. Laurence, Executive Officer
DMEA, Region VII, P.O. Building
Knoxville, Tennessee

Re: DMEA-3574 - Idm-E 759 (Mica)
McKinney Cove Mine, Final Report
Mitchell County, N. C.

Dear Mr. Laurence:

Work began on the above project February 7, 1955 and was completed on May 18, 1955.

We moved in machinery including hoist and air compressor, supplies and tools. Cut timber and rehabilitated the old shaft, then sank a shaft an additional 40 feet, picking up only one small pocket of mica weighing about 150 lbs. The shaft was in vein material most of the way, and we found it necessary to drill and shoot the entire depth. We then drifted North, as directed by the field team, a distance of 71', in vein material which looked promising all the way. No mica was recovered.

Work was completed on the contract on May 18, but we are continuing with our work as the material looks hopeful.

We wish to thank the field team for their cooperation and assistance on this project. If further information is needed, please contact me.

Very truly yours,

BURLESON & KELLER MINING CO.

D. C. Keller

D. C. Keller

K/b

Covering memo to Copy - 6-10

RECEIVED
MAY 23 1955
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

RECEIVED
JUN 10 1955

Elizabethton, Tennessee
May 20, 1955

Mr. Robert A. Laurence, Executive Officer
DMEA, Region VII, P.O. Building
Knoxville, Tennessee

Re: DMEA-3574 - Idm-E 799 (Mica)
McKinney Cove Mine, Final Report
Mitchell County, N. C.

Dear Mr. Laurence:

Work began on the above project February 7, 1955 and was completed on May 13, 1955.

We moved in machinery including hoist and air compressor, supplies and tools. Cut timber and rehabilitated the old shaft, then sank a shaft an additional 40 feet, picking up only one small pocket of mica weighing about 150 lbs. The shaft was in vein material most of the way, and we found it necessary to drill and shoot the entire depth. We then drifted North, as directed by the field team, a distance of 71', in vein material which looked promising all the way. No mica was recovered.

Work was completed on the contract on May 13, but we are continuing with our work as the material looks hopeful.

We wish to thank the field team for their cooperation and assistance on this project. If further information is needed, please contact me.

Very truly yours,

MERLESON & KELLER MINING CO.

D. C. Keller

D. C. Keller

K/b

RECEIVED
MAY 23 1955
U. ... Survey

RECEIVED
JUN 10 1955

Elizabethton, Tennessee
May 20, 1955

Mr. Robert A. Laurence, Executive Officer
DMEA, Region VII. P.O. Building
Knoxville, Tennessee

Re: DMEA-3574 - Idm-E 759 (Mica)
McKinney Cove Mine, Final Report
Mitchell County, N. C.

Dear Mr. Laurence:

Work began on the above project February 7, 1955 and was completed on May 13, 1955.

We moved in machinery including hoist and air compressor, supplies and tools. Cut timber and rehabilitated the old shaft, then sank a shaft an additional 40 feet, picking up only one small pocket of mica weighing about 150 lbs. The shaft was in vein material most of the way, and we found it necessary to drill and shoot the entire depth. We then drifted North, as directed by the field team, a distance of 71', in vein material which looked promising all the way. No mica was recovered.

Work was completed on the contract on May 13, but we are continuing with our work as the material looks hopeful.

We wish to thank the field team for their cooperation and assistance on this project. If further information is needed, please contact me.

Very truly yours,

DUNLEVY & KELLER MINING CO.

D. C. Keller

D. C. Keller

E/b

RECEIVED
MAY 23 195
Knoxville, Tenn.

Minerals Administration
RECEIVED

INTERIM REPORT

DMEA-3574, Idm-E759 (mica) McKINNEY COVE PROSPECT

Operator: Burleson and Keller Mining Co.,c/o M. Burleson, Elizabethton, Tenn.

Location: Near the crest of Lick Ridge and its junction with Meadow Mountain, 2.28 airline miles N. 33° E. of Bakersville, Mitchell County, N. C.

This contract has been completed without making any discovery of strategic mica. An existing incline was deepened an additional 40 feet and 75 feet of drift were driven northeastward from its bottom. The pegmatite explored by this work was barren of mica. Certification of discovery will not be recommended.

The project was conducted in a satisfactory manner.

Date of examination: May 18, 1955.

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

z

INTERIM REPORT

DMEA-3574, Idm-E759 (mica) McKinney Cove Mine

Operator: Burleson and Keller Mining Co., c/o Millard Burleson, Elizabethton, Tennessee

Location: Near the crest of Lick Ridge, and its junction with Meadow Mountain, 2.28 airline miles N. 33° E. of Bakersville, Mitchell County, North Carolina

Drifting continues on this contract and is now at 48 feet. Forty-two feet has been driven in a N. 15° E. direction and 6 feet to the southeast. Most of the drift work has been accomplished in feldspathic material, but the last 10 feet shows quartz ribs in the feldspar with small blocks of mica closely associated on the southwest side of the drift. Some scattered semi-weathered inclusions of hornblende gneiss were evident in the heading. The Operator was advised to continue the drift in the same general direction until another visit can be made. 21 feet of drift remains to be driven under the contract.

The Operator was advised to scale the drift roof thoroughly before attempting any additional work. Progress on this contract is satisfactory.

Inspected: May 5, 1955.

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

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

INTERIM REPORT

DMEA-3574, Idn-E759 (mica) MCKINNEY COVE PROSPECT

Operator: Burleson and Keller Mining Co. c/o M. Burleson, Elizabethton, Tenn.

Location: Near the crest of Lick Ridge and its junction with Meadow Mountain, 2.28 airline miles N. 33° E. of Bakersville, Mitchell County, N. C.

Drifting is underway at this mine and now totals 26 feet all of which has been driven in a N. 30° E. direction. This lateral is along a pegmatite 1.5 - 3.5 feet thick which strikes N. 30° E. and dips 45° to the southeast. No mica of strategic size or grade has been recovered to date. Considerable minor post-pegmatite faulting is exposed in the drift.

Drifting will continue to the northeast until another visit by the field examiners can be made.

Progress on the contract is satisfactory.

Date of Examination: April 20, 1955.

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

and

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

z

INTERIM REPORT

IMEA-3574, Idm-E759 (mica) MCKINNEY COVE PROSPECT

Operator: Burleson and Keller Mining Co. c.o M. Burleson, Elizabethton, Tennessee

Location: Near the crest of Lick Ridge and its junction with Meadow Mountain, 2.28 airline miles N. 33° E of Bakersville, Mitchell County, North Carolina

Incline sinking has been completed on this contract. Instructions were given for turning off a drift level to the northeast and the Operator indicates that this work will begin immediately. Incline sinking totals 40 feet and a drift extension in the same direction totals 6 feet. Material encountered is primarily kaolinized feldspar containing pods of quartz and occasional mica in the quartzitic zones. The enclsoing rock is a biotite gneiss, badly weathered on the hanging wall and fresh on the footwall. Progress on this contract is satisfactory.

Inspected: April 5, 1955.

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

D. H. Amos, Geologist
U. S. Geological Survey

z

INTERIM REPORT

On

DMEA-3574, Idm-E759 (mica), MCKINNEY COVE PROS.

Operator: Burleson & Keller Mining Co. c/o Millard Burleson, Elizabethton, Tenn.

Location: Near the crest of Lick Ridge and its junction with Meadow Mt. 2.28 airline miles N. 33° E. of Bakersville, Mitchell Co., N.C.

The starting date on this contract is February 14, 1955. Rehabilitation and cleaning out of an existing 40 ft. open cut including necessary timbering, has been completed. Incline shaft sinking is underway and 12 feet of sinking in new ground has been accomplished in pegmatite, composed of kaolinized feldspar, principally. No mica has been recovered todate. The body strikes about N. 20° E and dips 48° SE. Sinking will continue until another visit can be made.

A toolhouse, powder magazine, and an exploder magazine has been constructed according to specifications. Equipment on the job consists of a 105 c.f.m. air compressor, single-drum gasoline powered hoist with conventional hoisting frame and necessary hand tools. It was suggested that slides for hoisting and ladders be install as soon as practical. Progress on this contract is good.

Inspected: March 3, 1955

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

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

z

a.

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

RECEIVED
FEB 17 1955
ROOM

February 16, 1955

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Signed Contract - Idm-E759, DMEA-3574, Burleson & Keller Mining Company (mica)

Transmitted are three signed copies of the subject contract. The usual distribution of the other copies has been made.

V. J. Lynch

V. J. Lynch

DOCKET FILE
Surname:

Hopkins
Houk
Fulbert
Selfridge
Fitzhugh

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

JAN 21 1955

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

Subject: Docket No. DMEA-3574 - Mica
Burleson & Keller Mining Co.
McKinney Cove Prospect
Mitchell County, North Carolina

Dear Mr. Laurence:

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

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

After execution of the contract, the copies are to be distributed in the usual manner. Copies of memoranda from the Geological Survey, dated January 11, 1955, and from the Bureau of Mines, dated January 13, 1955, are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Approved:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

Enclosures 10

JHopkins:ad 1/19/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.G.S.

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

Defense Minerals Administration
RECEIVED
JAN 14 1955

January 13, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3574 (mica)

Applicant: Burleson and Keller Mining Company

Name and Location of Property: McKinney Cove Prospect
Mitchell County, North Carolina

Date of Field Team Report: December 31, 1954

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: January 7, 1955

Field Team Recommendation:

1. Approval of contract.

Comments:

1. Proposed exploration project is consistent with good engineering practices and costs are in line with other DMEA projects.

2. The northern pegmatite dike appears to be the only promising area for obtaining strategic mica.

Recommendation:

I concur in the field team's recommendation for a project in the amount of $4,688.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
JAN 12 1955

January 11, 1955

Re: DMEA-3574
Burleson & Keller
(McKinney Cove
Prospect)
Mitchell Co., N. C.
$4,688 - Mica

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

The Field Team has recommended further exploration on the north end of the property be approved. A 40 foot incline would be sunk from the bottom of the open cut and a 75 foot drift driven northeast on pegmatite.

There is a good possibility that a new mica shoot will be found by the proposed work. If the northern deposits are zoned and structurally similar to the southern deposits then the hanging wall part of the pegmatite should be followed by the proposed exploration.

I recommend the Field Team's recommendations be followed and a contract be approved for exploration in northern open cut.

E. L. Newcomb

E. L. Newcomb

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

December 31, 1954

Memorandum

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

From: Field Team, Region VII

Subject: Field Examination Report, DMEA-3574 (mica)
Burleson and Keller Mining Company, c/o Millard Burleson
Jellico Grocery Co., Elizabethon, Tennessee
McKinney Cove Prospect, Mitchell County, N. C.

Enclosed are the original and three copies of the subject report and six extra copies of the map. The Field Team is in agreement with the recommendations.

Kepton H. Teague for
Robert A. Laurence
Executive Officer, DMEA Field Team
Region VII

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

Enclosures 10

Reviewed by
DMEA OPERATING COMMITTEE
1-7-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM - REGION VII

on

DMEA-3574, MCKINNEY COVE PROSPECT (mica)
Mitchell County, North Carolina

By

R. A. Laurence, K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

and

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

December 30, 1954

Reviewed by
DMEA OPERATING COMMITTEE
1-7-55
(date)

EXAMINATION REPORT BY FIELD TEAM
on
DMEA-3574, MCKINNEY COVE PROSPECT (mica)

Applicant: Burleson and Keller Mining Company
c/o Millard Burleson
Jellico Grocery Company
Elizabethton, Tennessee

Three places have been worked on this lease, only one of which merits exploration assistance. No mining has been done on the pegmatite which justifies assistance in many years, but at the other two places recent bulldozing has failed to locate a workable deposit.

The property was examined on December 15, 1954. Messrs. Wilson Burleson, Wilson Burleson, Jr., Ed Ellis, Jessie Green and John Wilson accompanied the examiners on the inspection which required three hours.

The McKinney Cove Prospect is near the crest of Lick Ridge, near the point of junction of Lick Ridge with Meadow Mountain 2.28 airline miles N. 33° E. of Bakersville, Mitchell County, North Carolina. Access is possible at most times by 4-wheel drive car.

None of the applicants have mica mining experience. Should exploration assistance be granted, they plan to employ Ed Ellis, who is experienced in mica mining, to supervise the work.

Two of the applicants and the other applicant's wife owns the property, area of which is adequate for the proposed work.

The two southern openings have been made as open cuts on pegmatites that are about 8 feet thick. These pegmatites are unzoned and contain little mica. No work is recommended at either place.

Work at the northern location has been conducted from two openings. At this place the south opening is a 30-foot vertical shaft from which an open incline 50 feet deep extends down the dip. Reports indicate that about 20 feet of muck is present in the bottom of the incline, making a total incline length of about 70 feet. The north opening is an open cut about 40 feet deep. Apparently all of the mica-bearing shoot at the southwest end.has been removed. No work has been done either northeast or southwest of the two openings.

The pegmatite trends N. 40° E. and dips 35° - 40° SE and the crest plunges 50° SW. The mica shoot previously mined probably has a similar rake. The country rock within 6 inches of the pegmatite contact is mica schist. Beyond that point it is hornblende gneiss. Country rock and pegmatite are conformable. Movement has taken place along both contacts of the pegmatite as evidenced by slickensides.

Where exposed in the south shaft the pegmatite is well zoned. It is 6 to 7 feet thick and consists of a quartz core 2-3 feet thick bounded on both sides by feldspathic pegmatite. The feldspathic pegmatite is composed of plagioclase feldspar, small lenses and blebs of smoky quartz, muscovite, biotite, and red garnet. Numerous small inclusions of mica schist are present in the feldspathic portion of the sill-like intrustion.

In the north open cut the pegmatite is exposed, but could not be examined because of poor access. It appears to be of similar composition and thickness as that in the south shaft, although the quartz core is not so conspicuous.

Most of the mica obtained during previous mining has been obtained from the south shoot and came from the hanging wall side of the quartz core. The mica is brown (non-ruby) in color, hard, flat, clear, and free splitting. Large sizes are reported to have been obtained. The mica is of strategic grade.

The history of work at this place is not known. Apparently, all mining was done prior to World War II.

The applicants proposal is directed at the middle location shown on the attached sketch. The examiners do not believe that work is justified at this middle place, but do believe that work is justified at the northern location.

On the north pegmatite only one mica shoot has been located and worked. There is a good possibility that another shoot occurs farther to the northeast. The examiners believe that this possibility warrants exploring and recommend the following program of work. Set stulls in the existing north open cut and remove existing muck in bottom, construct toolhouse and magazines, sink a 40-foot incline from the bottom of the open cut on the pegmatite, and drive 75 feet to the northeast on the pegmatite.

Estimated Cost:

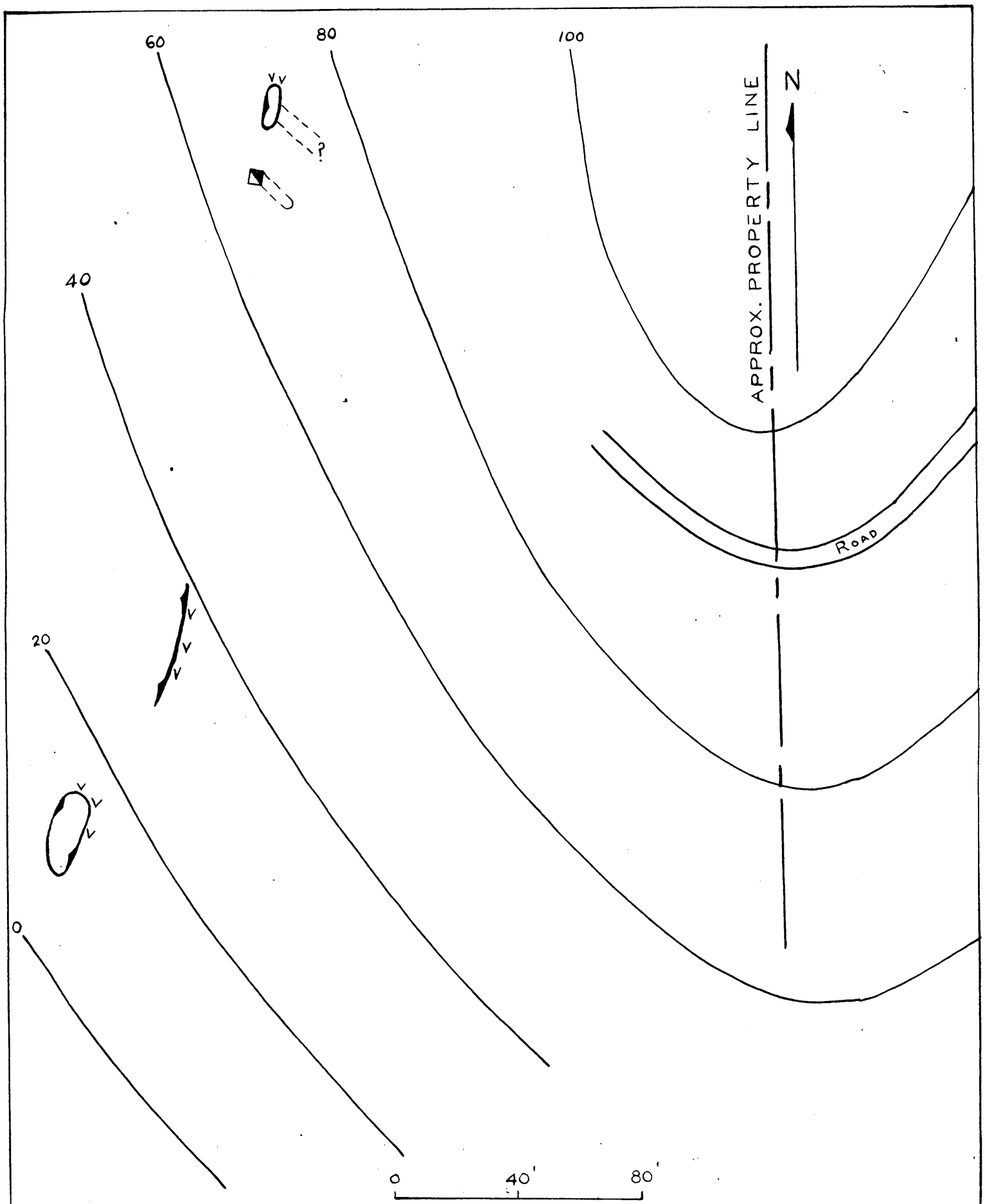
Rehabilitate and clean out existing 40 feet of open cut		$150.00
Toolhouse		75.00
Powder magazine		25.00
Exploder magazine		13.00
Sink 40 feet of incline (25 shifts) 4500		
Labor:		
1 - Miner @ $1.50 per hr.	$300.00	
1 - Hoistman @ $1.25 per hr.	250.00	
1 - Laborer @ $1.00 per hr.	200.00	
Equipment (rental):		
Compressor and drill @ $220.00 per mo.	275.00	
Hoist @ $50.00 per mo.	62.50	
Supplies:		
Explosives	125.00	
Drill steel	80.00	
Timber, 1000 b.f. @ $65/M	65.00	
Hand tools	100.00	
Pipe	100.00	
Gasoline and oil	75.00	
Miscellaneous	75.50	
Social Security and insurance	92.00	$1,800.00
Drive 75 feet of drift on pegmatite (30 shifts) 3500		
Labor:		
1 - Miner @ $1.50 per hr.	360.00	
1- Hoistman @ $1.25 per hr.	300.00	
2 - Laborers @ $1.00 per hr.	480.00	
Equipment (rental):		
Compressor, pump, jackleg and drill @ $250.00 per month	375.00	
Hoist @ $50.00 per month	75.00	
Supplies:		
Explosives	200.00	
Drill steel	150.00	
Hand tools	100.00	
Pipe	100.00	
Gasoline and oil	150.00	
Miscellaneous	150.00	
Social security and insurance	185.00	$2,625.00
Estimated Total Cost		$4,688.00
	Cost	3516.00

December 30, 1954

R. A. Laurence, K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

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

mg



SKETCH OF
McKINNEY COVE MINE
MITCHELL CO., N.C.

DMEA-3574 (mica)

DOCKET FILE
Surname:
Hopkins
Houk
Selfridge
Johnson

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

600

DEC 17 1954

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

Subject: Docket No. DMEA-3574 - Miss Millard Burleson, Wilson Burleson and D. C. Keller, Partners
Burleson & Keller Mining Co.
McKinney Cove 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 from the Geological Survey, dated November 26, 1954, and from the Bureau of Mines, dated December 9, 1954, are enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

Approved:

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

Thor H. Kiilsgaard
Member, Geological Survey (THK)

Enclosures 4

JHopkins:ad 12/13/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

DOCKET FILE
Surname:

Hopkins
Houk
Kiilsgaard
Hughes
Selfridge
K Johnson

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

DEC 17 1954

Burleson & Keller Mining Co.
C/o Millard Burleson
Jellico Grocery Co.
Elizabethton, Tennessee

Re: Docket No. DMEA-3574 - Mica
Millard Burleson, Wilson Burleson
and D. C. Keller, Partners
Burleson & Keller Mining Co.
McKinney Cove Prospect
Mitchell County, North Carolina

Dear Mr. Burleson:

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 VII, 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 that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins:ad 12/13/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region VII
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 9 1954

December 9, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3574 (mica)

Applicant: Millard Burleson

Name and Location of Property: McKinney Cove Prospect
Mitchell County, North Carolina

Date Application Rec'd. by Ceramic & Fertilizer Mtls. Br.: 11/18/54

Comments:

1. No data available in this office since this is a prospect.
2. Proposed exploration appears in line with other projects in this area but without an examination it is difficult to determine if an exploration project is justified or if the proposed plan is the best method for conducting the exploration.
3. Costs are estimated at $8,900.

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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 30 1954

November 26, 1954

Re: DMEA-3574
Burleson & Keller
(McKinney Cove Prospect)
Mitchell Co., N. C.
$8,900 - Mica

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The operator requested exploration assistance to develop a new prospect. The proposal consists of trenching, 50 feet of shaft sinking, and 100 feet of drifting in pegmatite.

We have no information in our files on this property.

A staged project probably will be required, if the property warrants the initial trenching. However, the Field Team examiners will need to review the proposal and make a recommendation. This application should be referred to the Field Team.

E. L. Newcomb

E. L. Newcomb

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

November 18, 1954
Subject: DMEA-3574
Re: Exploration Assistance
McKinney Cove Prospect

Burleson & Keller Mining Co. (dba)
c/o Mr. Millard Burleson
Jellico Grocery Co.
Elizabethton, Tennessee

Gentlemen:

The receipt of your application dated November 16, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3574 and referred to the Non-Metallic 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.

Defense Minerals Administration
RECEIVED
NOV 18 1954

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. 3574
Metal or Mineral Mica
Date Received
Estimated Cost $8,900
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: Millard Burleson, Wilson Burleson & D. C. Keller Partners
D/B/A Burleson & Keller Mining Co.
c/o Millard Burleson, Jellico Grocery Co.
Elizabethton, Tennessee

(*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. McKinney Cove Prospect

(*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 Not owner

(*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 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 wish 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. See attached sheets.

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.). See sheet.

(*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 November 16, 1954

Burleson & Keller Mining Co.
(Applicant)

By Millard Burleson

Millard Burleson, Partner

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

MF-103 (Continuation Sheet)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 18 1954

4.(a) No mining operations have been conducted. New prospect.

(b) No production.

(c) From appearance of vein material showing, we believe non-ruby mica of strategic quality may be found.

(d) Project is accessible to roads, shipping, etc.

(e) Manpower, materials, supplies and equipment available. Power close by.

5.(b) Sketch map attached. We propose to bulldoze 40 hrs. making cuts, sink a 5x7' shaft at best location to depth of 100'; then drift 100 feet best way in vein.

6. Estimate of Costs:

Bulldozing 40 hrs. @ 10.00 hr.	$ 400.00
Sink 5x7' shaft 50 ft. @ $50.00 ft.	5000.00
Drift best way 100 ft. @ $35.00 ft..	3500.00
Total Estimated Cost	$ 8900.00

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 18 1954

Millard Burleson

Mr. Millard Burleson was born in Mitchell County and spent the early years of his life there. He attented Bowman High School and Milligan college. He has done some coal mining, but has never mined mica. For the past 10 years Mr. Burleson has worked as shipping clerk for the Jellico Grocery Company, Elizabethton, Tenn. He is a reliable citizen, well-known and respected in his town. He is 64 years old.

Wilson Burleson

Mr. Wilson Burleson was born in Mitchell County and spent his boyhood there. He attended Bowman High School and Milligan College. He has had various jobs in coal mining and mining operations , but has never mined mica. He moved to Tennessee and has for the past 23 years served as Manager of the Jellico Grocery Company, Elizabethton, Tennessee. Mr. Burleson is widely known and respected in his part of the state. He is now 62 years old.

D. C. Keller

Mr. D. C. Keller was born and attended schools in Abbington, Va. He has lived for some years in Elizabethton, Tennessee. He has been employed most of his live in the grocery business, having owned and operated such a business himself. He is now 67 years old, and retired. Mr. Keller is an honest, respected man.

DEPARTMENT OF THE INTERIOR
Bureau of Mines Minerals Administration
RECEIVED
NOV 18 1954

MINING LEASE

State of North Carolina Mitchell County:

This indenture made this 15th day of November, 1954, ~~1953~~,

between Wilson Burleson, Millard Burleson and Pearl B. Keller

of Carter and Washington Counties and State of ~~North Carolina~~ Tennessee as party of the first part, and known as lessors, and Wilson Burleson, Millard Burleson and D. C. Keller

of Carter and Washington Counties and State of ~~North Carolina~~ Tennessee, party of the second part and known as lessee.

WITNESSETH, That the parties of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessors, 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 at the center of the McKinney Cove Mine Prospect located 40 poles S.E. of a Hickory tree on W. B. McKinney's corner and running North 250'; thence West 250'; thence South 500'; thence East 500'; thence North 500'; thence West 250' [to beginning] This property located in McKinney Cove, Mitchell County, 3 miles Northwest of Bakersville.

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 (One-Eighth)

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.

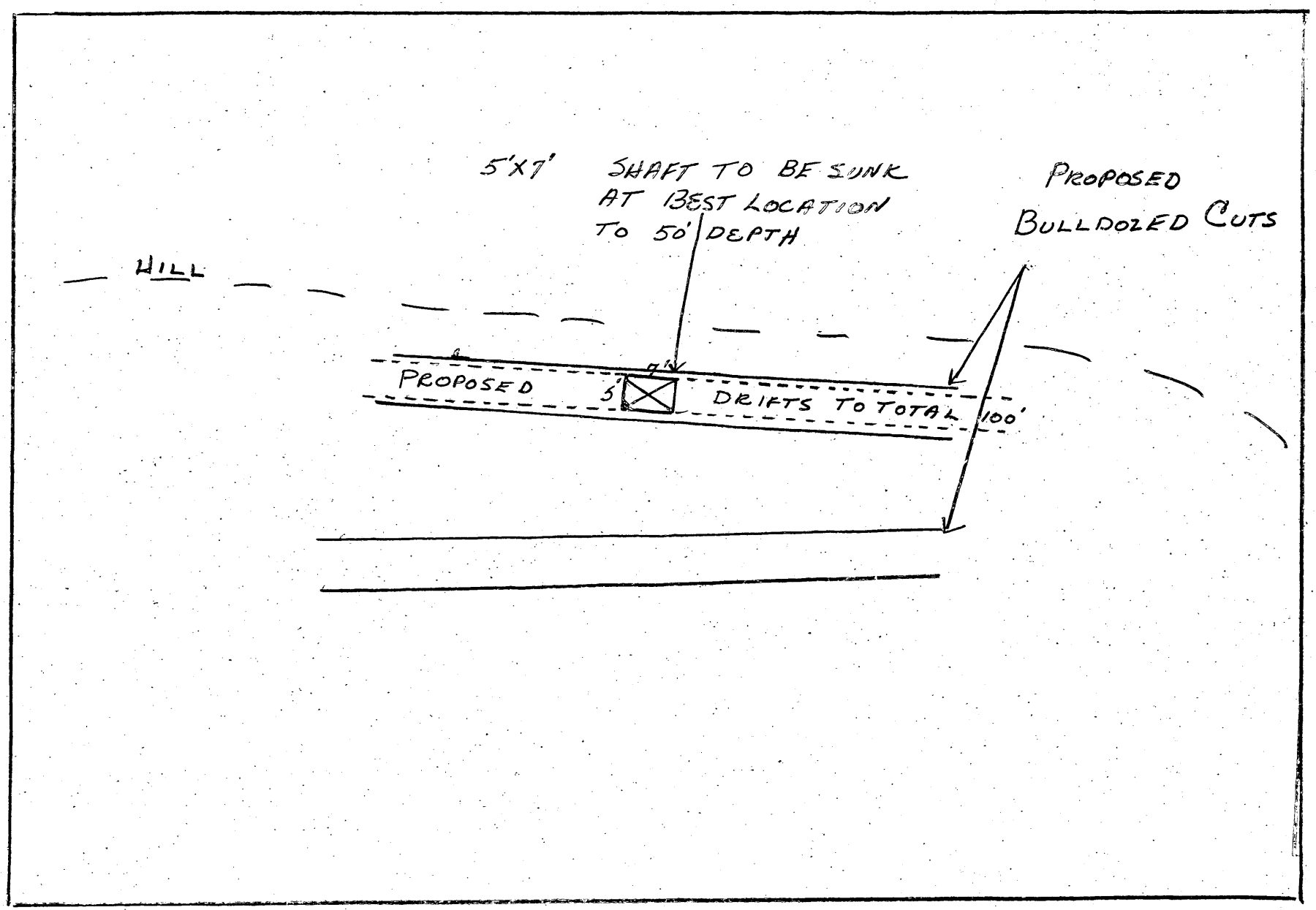
WITNESS our hands and seals the day and year first above written.

Witness:
Virginia Bowers
NOTARY PUBLIC

Wilson Burleson (Seal)
Millard Burleson (Seal)
Pearl B. Keller (Seal)

My Commission Expires: 7-11-57.

McKinney Cove Prospect
Mitchell Co.



OFFICIAL BUSINESS

420 CUSTOM HOUSE
555 BATTERY STREET
SAN FRANCISCO 11, CALIF.

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.