DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE **1079** DMEA NO. 4615

22 APR 1957

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(Withdrawn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

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

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

Left Side

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

Right Side

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

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

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

Left Side

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

Right Side

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

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

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9775

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/24	Anderson	600
4/18	Houk	600
4-28	Chambers	800
4/29	[illegible]	120
"	[illegible]	110
"	Mittendorf	100
		220

APR 30 1958 600

Mr. Ralph Burdette
P. O. Box 247
Simpsonville, South Carolina

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina
Contract No. Idm-E1079

Dear Mr. Burdette:

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

Administrator

WCAnderson:rsi 4/24/58
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Operating Committee
Mr. Houk
Mr. John Knight
Mr. O. O. Knight
Mr. S. D. Knight

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/24	Anderson	600
4/28	Houk	600
4/29	Selfridge	120 ✓
"	Johnson	110
"	Mittendorf	100
4/30		220
		600

APR 30 1958 600

Mr. O. G. Knight

Arcadia, South Carolina

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina
Contract No. Idm-E1079

Dear Mr. Knight:

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

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on January 21, 1957.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

WCAnderson:rsi 4/24/58
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Operating Committee

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/24	Anderson	600
4/26	Houk	600
4/29	Sellridge	120
	Johnson	110
	Mittendorf	100
		220

600

APR 30 1958

Mr. John Knight

Simpsonville, South Carolina

Re: Docket No. DMEA-4615-Mics
Ralph Burdette
Knight No. 2
Greenville County, South Carolina
Contract No. Idm-E1079

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This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on January 21, 1957.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

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Copy to: Admr. R. File
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		220

APR 30 1958 600

Mr. S. D. Knight

Simpsonville, South Carolina

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina
Contract No. Idm-E1079

Dear Mr. Knight:

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

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on January 21, 1957.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

Enclosure

WCAnderson:rsi 4/24/58
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Operating Committee

8623

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Ralph Burdette

Simpsonville, South Carolina

pertaining to Exploration Project Contract No. Idm-E1079, DMEA No. 4615, for the months of June 1957 to October 1957, inclusive, covering a project for the exploration of mica on property, known as the Knight No. 2 Mine located in Greenville County, South Carolina.

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

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

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

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

Total cost as billed by Contractor		$4,556.00
Exceptions:		
Prior to this review	$ -0-	
Herewith: Bulldozing claimed in excess of 285 cu. yds. (contract maximum) @ $.30/cu. yd.	.50	.50
Total Accepted Cost		$4,555.50

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Three thousand four hundred sixteen and 62/100 Dollars

$3,416.62

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

E. D. Talbert

E. D. Talbert, Auditor

October 25, 1957

Government's Copy

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 3 1957

DATE	INITIALS	CODE

MF-200A
(Rev. April 1956)

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

DMEA No.	*Commodity*	*Contract No. Idm-E*	*County*	*State*
4615	Mica	1079	Greenville	South Carolina

It is agreed 22 APR 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Ralph Burdette

whose mailing address is P. O. Box 247, Simpsonville, South Carolina

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before JUN 15 1957, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within 7 months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $5,480.00. The Government will contribute 75 percent of the fixed unit cost of the work performed, not exceeding $4,110.00, in accordance with the provisions of Articles 4 and 5.

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

ARTICLE 2. *Operator's property rights.*—(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's rights of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances: Royalty of 10% of gross receipts from the sale of minerals, payable to lessors.

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

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

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

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

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

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

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

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

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

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

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

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

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ARTICLE 10. *Changes and added provisions.*—

.....

.....

.....

.....

.....

.....

Long
Dreulger
"Appd. Sol. Off."
Anderson
Hook
Chambers
Selfridge
Johnson

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

RALPH BURDETTE
(Operator)

By Ralph Burdette

By O. Mitkendorf
Administrator, Defense Minerals
Exploration Administration

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

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE: 1956—O-383069

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 3 1957

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
RALPH BURDETTE
DOCKET NO. DMEA-4615

ANNEX I

The land referred to in Article 2 of the contract, known as the Knight No. 2 Mine, is situated 5.45 airline miles S 74½° W from the intersection of U. S. Highway 276 and State Route 417 in the center of Simpsonville, Greenville County, South Carolina. The operator is in possession of the premises by virtue of a lease from John Knight, O. O. Knight and S. D. Knight, Executors of the Estate of S. D. Knight. The leased area consisting of 88 acres is a part of the S. D. Knight estate (comprising 119 acres) which is shown on the attached Map No. 1 and described in the deed, recorded in Book 55, page 146 in the official records of Greenville County, South Carolina, as follows:

> Beginning at a stone in branch, P. L. Huff's corner and running thence down branch N. 79¼ W. 3.61, thence 1.23 to bend in branch, thence S. 73 W. 6.40 to bend in branch thence, S. 21 W. 1.30 to center of branch, thence N. 85¼ W. 1.45 to center of road, thence S. 82¼ W. 7.29 to iron pin in road, thence N. 89¾ W. 9.70 to an oak bush, thence N. 84 W. 6.37 to a stone, thence S. 79¼ W. 137 to a black gum on branch, thence down branch, 17.07 to a hickory 3x thence S. 74 3/4 W. 18.00 to center of river (Reedy) thence up center of river to a point in river Agustus Huff's corner, thence N. 53½ E. 32.00 to a stone 3x, thence S. 59 3/4 E. 28.25 to a stone P. L. Huff's corner thence S. 38 3/4 W. 13.25 to the beginning corner, containing 119.3 acres.

"Note - the unit of length in the above description is a chain (66 feet)."

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

Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E
Contract Date 15 APR 1957

RECEIVED JAN 25 1957 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Greenville State of South Carolina, described ~~as follows~~ 2/

Eighty-eight acres, more or less, of S. D. Knight's Estate in Fairview Township, and being the same property described in Deed Book 55, Page 146, in R. M. C. Office of Greenville County. Less 31½ acres by deed to John & Edith Knight in 1948.

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

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

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

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

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

NONE

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

2/ Either (a) insert the legal description of the land, or (b) strike out the words "~~as follows~~" and insert "in a ~~lease~~ [~~mineral~~, deed, ~~or other document~~] dated January 2, 1920, and recorded in Book 55, Page 146, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

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

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

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

Dated this 21st day of January, 1957

John Knight	[Seal]	Simpsonville SC	[Address]
O. O. Knight	[Seal]	Arcadia SC	[Address]
L. D. Knight	[Seal]	Greenville SC	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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

_____

[Corporate Seal]

Legal description of S.D.Knight Estate
II9.3 acres less 3I.½ acres by deed to
JOHN& EDith Knight in I948.

Beginning at a stone in branch ,P.L. Huff's corner and running thence down branch N79¼W 36.1 ,thenceI.23 to bend in branch , thenceS73W 6.40 to bend in branch, thence S.2IW I.30ttocenterof branch, thenceNN.85½W. I.45 to center of road, thence N.89¼W. 9.70 to an oak bush, thence N.84W. 6.37 to a stone , thence S.79¼W. I.37 to a blackgum on branch , thence down branch I7.07 to a hickory 3x thence S.743/4 W.I8.00 to center of river (Reedy) thence up center of river to a point in river Agustus Huff's corner , thence N.53½E. 32.00 to a stone 3x , thence S.59 3/4 E. 28.25 to a stone, P. L. Huffs corner, thence S.38 3/4 W. I3.25 to beginning corner, containing II9.3 acres.

thence S.52¼W 7.29ch.

31.5
48
119.3

EXPLORATION PROJECT CONTRACT
RALPH BURDETTE
DOCKET NO. DMEA-4615

EXHIBIT A

Description of the Work

Exploration for concentrations of strategic mica shall be performed in the area indicated on the attached map No. 2 entitled "Knight No. 2 Mine, Greenville County, South Carolina, DMEA-4615 (mica)," as follows:

1. At the direction of the Government, bulldoze a trench 50 feet long, by 15 feet wide, by 10 feet deep, aggregating not more than 285 cubic yards of excavation, along the strike of the pegmatite.

2. Construct:

(a) A toolhouse, minimum dimensions 7 feet by 8 feet by 10 feet.
(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 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 rough unfinished lumber, with protective roof covering; and shall be equipped with lock and key.

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

3. Sink a two-compartment vertical or inclined shaft a distance of not more than 60 feet.

4. Explore the pegmatite by driving from or near the bottom of the shaft, not more than 80 feet of drifts and/or crosscuts.

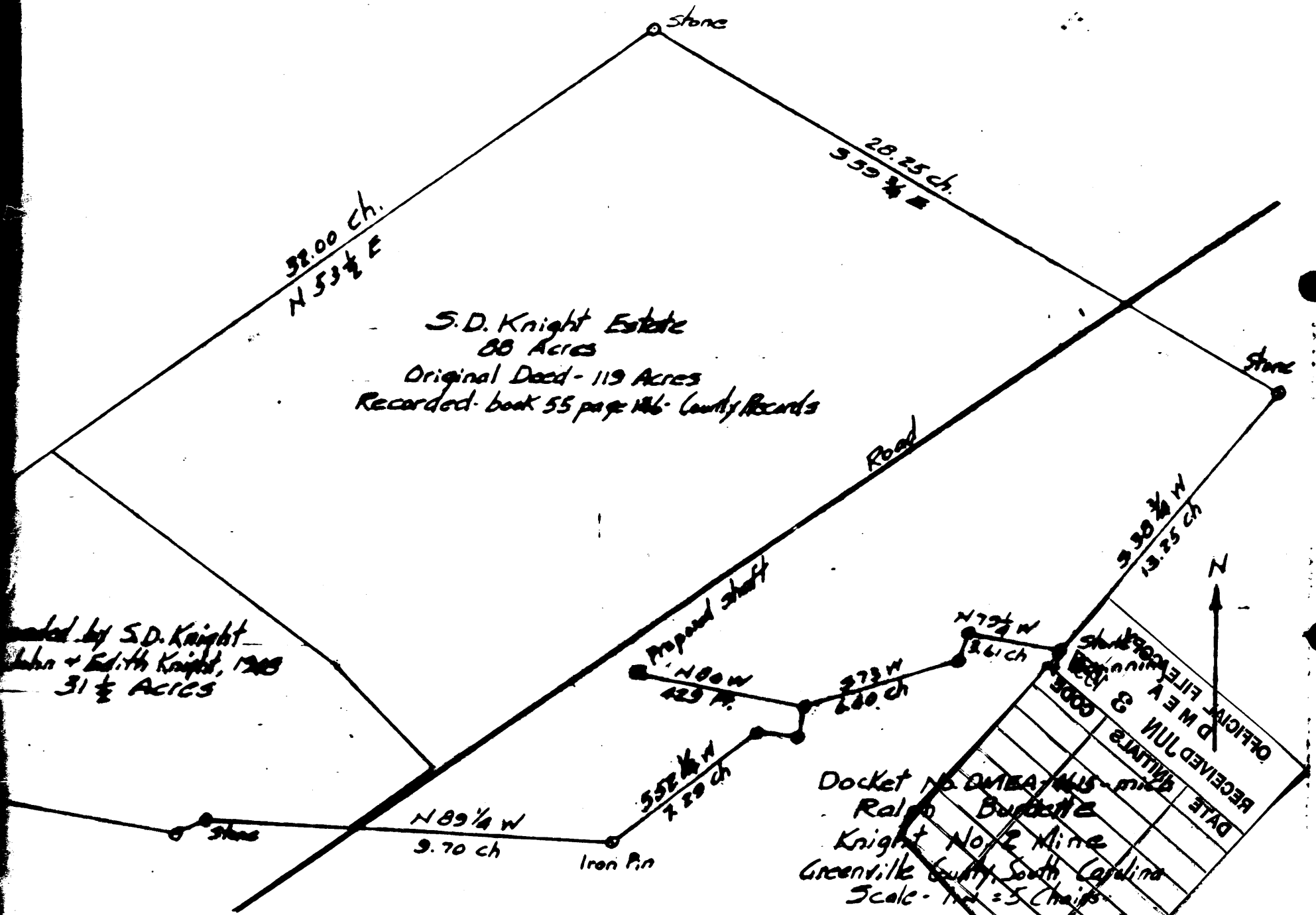
The shaft and the drifts and/or crosscuts shall be timbered as necessary and shall have minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

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

Fixed Unit Costs

1.	Bulldoze trench - 285 cubic yards @ $0.30/cu. yd. (rounded)		$ 86.00
2.	Construct - Toolhouse 1/	$75.00	
	Powder magazine 1/	25.00	
	Exploder magazine 1/	14.00	114.00
3.	Sink 60 feet of shaft @ $44.00/ft.		2,640.00
4.	Drive 80 feet of drifts and/or crosscuts @ $33.00/ft.		2,640.00
	Estimated Total Cost of Project		$5,480.00
	Government Participation @ 75%		$4,110.00

1/ The completed work constitutes the unit.


Stone
28.25 ch.
S 59 ¾ E
32.00 ch.
N 53 ½ E
S.D. Knight Estate
88 Acres
Original Deed - 119 Acres
Recorded - book 55 page 146 - County Records
Road
Stone
S 30 ¾ W
13.25 ch
N
N 73 ½ W
3.41 ch
Proposed shaft
N 80 W
4.23 ch
S 73 W
6.60 ch
S 52 ¼ W
7.29 ch
N 89 ¼ W
9.70 ch
Iron Pin
Stone
S.D. Knight
John + Edith Knight, 1908
31 ½ Acres
Docket No. DMEA/MLS-mine
Ralph Burdette
Knight No. 2 Mine
Greenville County, South Carolina
Scale - 1" = 5 Chains
OFFICIAL FILE COPY
RECEIVED JUN 3 D M E A
DATE
INITIALS
CODE

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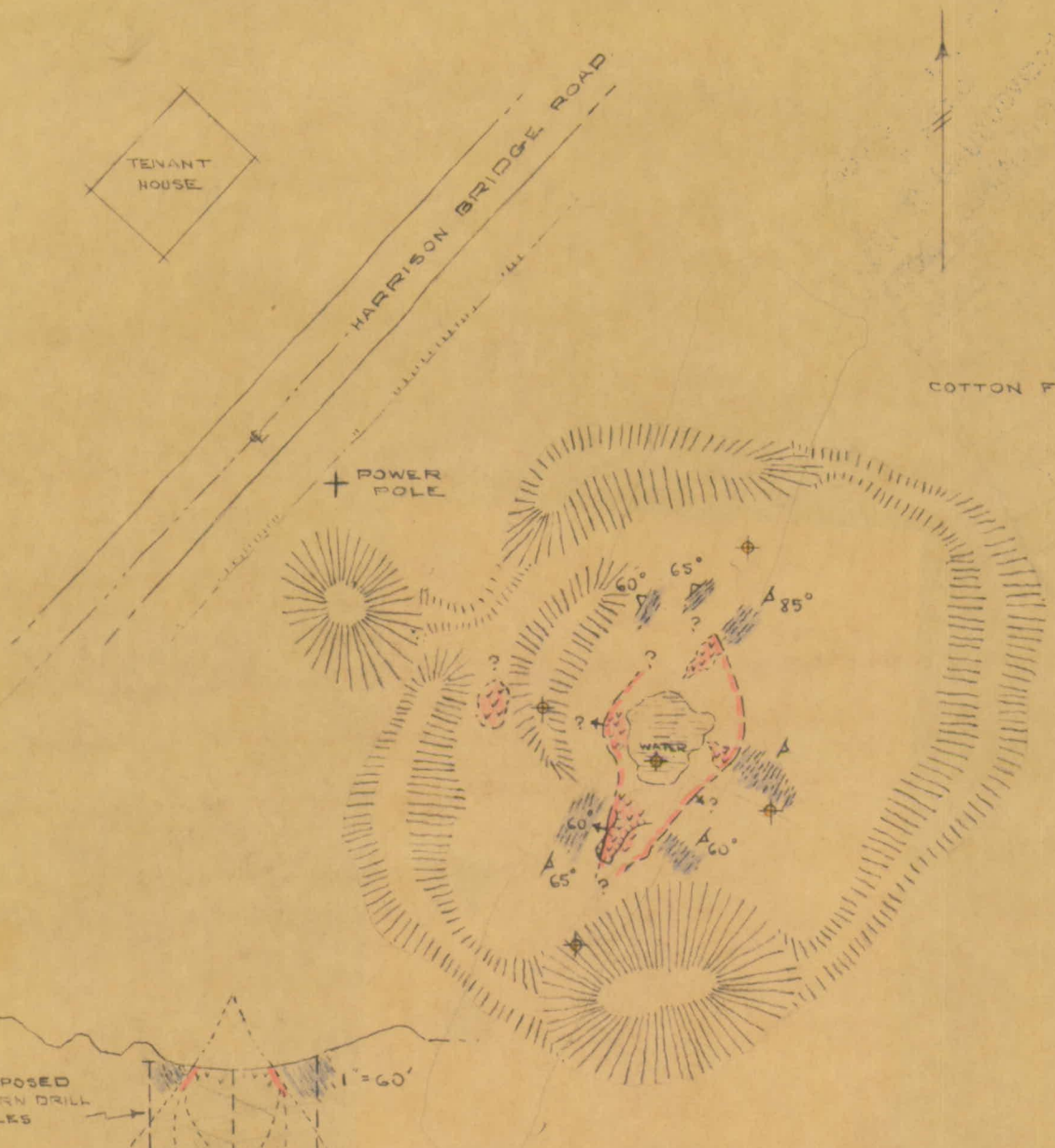
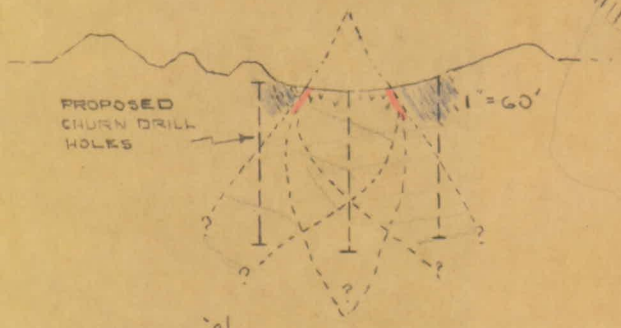
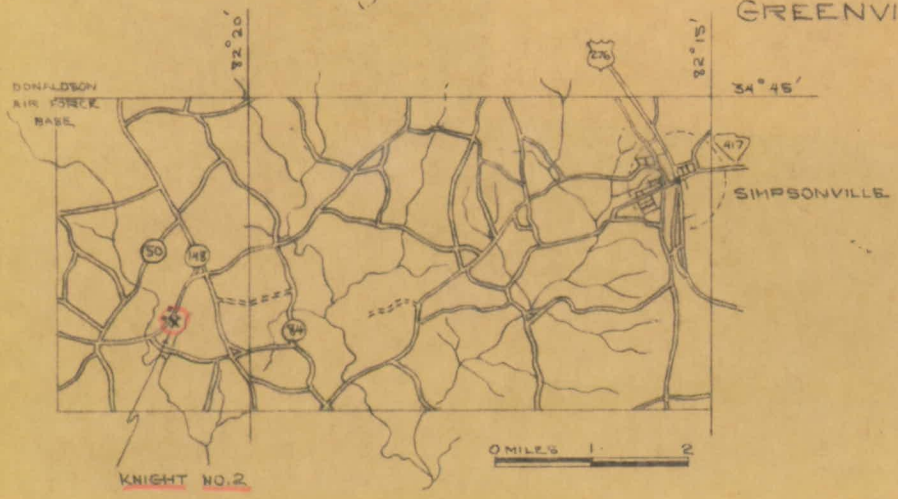
D M E A
RECEIVED JUN 3 1957
DATE | INITIALS | CODE





KNIGHT NO. 2 MINE
GREENVILLE COUNTY, SOUTH CAROLINA
DMEA-4615 (MICA)



SCALE: 1" = 40'

LEGEND

- MICA-BEARING PEGMATITE
- SILLIMANITE-MICA SCHIST
- EXCAVATION DUMP
- WATER
- PROPOSED CHURN DRILL HOLE

MAP NO. 2

SCB 2/97

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D M E A
RECEIVED JUN 3 1957

DATE	INITIALS	CODE

Please return
to
Mr. Burdette
P.O. Box 247
Simpsonville, S.C.

(2)

JAN 4 1957 GREENVILLE COUNTY BOOK 568 PAGE 2

MINING LEASE JAN 4 4 21 PM

297

OLLIE FARNSWORTH R.M.C.

State of South Carolina Greenville County:

This indenture made this 31st day of July, 1956 between Executors of The S. D. Knight Estate of Greenville County and State of South Carolina as party of the first part, and known as lessor___, and Ralph Burdette of Greenville County and State of South Carolina, party of the second part and known as lessee.

Witnesseth, That the part___ of the first part in the 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:

88 Acres more or less of S. D. Knights Estate in Fairview Township, County of Greenville, State of South Carolina and being the same property described in Deed Book 55 Page 146 in R.M.C. Office of Greenville County, Less 31½ acres by Deed to John A. Odell 1948

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, 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 lesee, 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 operations 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 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 lesee.) And it is hereby agreed that the party of the second part, the lesee, 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 lesee hereby agrees to pay to the said part___ of the first part, or his or their heirs or assigns, a rental royalty of 10%

on the minerals taken and sold from said mines which shall be for use

legal description of land (Over) this page.

Apt 566 file 1 - Quitclaim 88ac Herring Bridge Rd
Hopewell School Dist.

~~43/308 89.18ac Mac Th Dan~~

88 34/391 " " " "

31 1/2 55/146 - 119.3 Fairview Tp. Less 31 1/2 ac

119.3

Legal description of S.D. Knight Estate
II9.3 acres less 3I½ acres by deed to John & Edith Knight in I948.

Beginning at a stone in branch, P.L. Huff's corner and running thence down branch N. 79½ W. 3.6I , thence I.23 to bend in branch, thence S.73 W. 6.40 to bend in branch thence, S. .2I W. I.30 to center of branch , thence N.85½ W. I.45 to center of road , thence S. 52¼ W. 7.29 to iron pin in road , thence N. 89¼ W. 9.70 to an oak bush , thence N. 84 W. 6.37 to a stone , thence S. 79¼ W. I37 to a black gum on branch , thence down branch, I7.07 to a hickory 3x thence S. 74 3/4 W. I8.00 to center of river (Reedy) thence up center of river to a point in river Agustus Huff's corner, thence N. 53½ E. 32.00 to a stone 3x , thence S. 59 3/4 ~~NE~~ 28.25 to a stone P.L. Huff's corner thence S.38 3/4 W. I3.25 to the beginning corner, containing II9.3 acres.

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 sub-lease.

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 party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such timethat 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 written above.

WITNESS:

William E. Stone

J. H. Ellis

O. O. Knight (Seal)

S. D. Knight (Seal)

John Knight (Seal)

Ralph Burdette

The Following is a Part of the above agreement.

(over)

STATE OF SOUTH CAROLINA
COUNTY OF GREENVILLE

PERSONALLY appeared before me J. H. Ellis and made oath that he saw the within named Executors of The S.D.Knight Estate and Ralph Burdette sign, seal and as their act and deed deliver the within written mining lease and that he, with William E. Stone witnessed the execution thereof.

Sworn to before me this
4th day of December, 1956.

(SEAL)
Notary Public for S. C.

J. H. Ellis

Recorded January 4th, 1957 at 4:21 P. M. #297

Filed for record in the office of the R. M. C. for Greenville County, S. C. at 4:21 o'clock P. M. January 4th, 1956 and recorded in Deed Book 568 at page 213

R. M. C. for G. Co. S. C.

By _____ Deputy

All acceptance clause be part of this and related on the and of operative whether minerals are found or not.

All cap damage clause be filed by lessee. Lessee clause be made by lessee against or obligated by drainage only.

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

January 23, 1957

Memorandum

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

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

Subject: Application from Ralph Burdette, Simpsonville, S. C.
Knight No. 2 Mine, Greenville County, S. C. (Mica)

Enclosed are the original and two copies of the subject application which was received here today, with the mining lease and six signed copies of the Consent to Lien and Subordination Agreement. We are keeping the fourth copy of the application.

Please note that Mr. Burdette wants the lease returned to him as soon as it is no longer needed by you.

Robert A. Laurence

Robert A. Laurence

Enclosures 10

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

D.M.E.A. RECEIVED JAN 25 1957

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. 4615
Metal or Mineral Mica
Date Received 1-25-57
Estimated Cost $6050
Participation (Government %)

RECEIVED
JAN 23 1957
U.S. Geological Survey
Geologic Division
Knoxville, Tenn.

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:

Mr. Ralph Burdette
P. O. Box 247
Simpsonville, South Carolina

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

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

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

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

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

(*b*) State any mine name by which the property is known. Knight No. 2

(*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. See Annex

(*e*) If you own the land, describe any liens or encumbrances on it NONE

(*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 Annex

(*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. See Annex

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

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

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

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

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

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 Annex

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

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

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

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

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

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

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

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

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

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

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

☑ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 21st day of January, 1957

Ralph Burlitz
(Applicant)

By .....

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

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

3. (a) Eighty-eight acres, more or less, of S. D. Knight Estate in Fairview Township, County of Greenville, State of South Carolina, and being the same property described in Deed Book 55, Page 146 in R. M. C. Office of Greenville County. Original deed - 119.3 acres. 31½ acres deeded to John and Edith Knight in 1948.

4. (a) Topsoil has been stripped and clay removed down to slates. The slates being approximately six feet from surface of earth. A bulldozer cut was then made alongside slate in kaolin approximately four feet deep to recover block mica alongside slate. The total depth of cut approximately ten feet.

I, personally, did the bulldozer work and had two laborers to recover mica from alongside of slate with pick.

A blacktop farm to market road runs alongside the workings that connects to U. S. Highway 276.

(b) In making the cut described in 4a, approximately 2,000 pounds of mica was produced. Mica extruded to earth surface and was badly fractured but very clear. Out of approximately 1,400 pounds that has been processed, 61 pounds of acceptable strategic mica was produced; I have not received final evaluation sheet on shipment.

(c) Topsoil with unusual amount of small flint rocks on surface, approximately one foot. Clay very red, running to a red slate with minute particles of mica in slate.

Alongside of slate, block mica encrusted in fine particles of quartz, and on east side of slate, kaolin. See sketch No. 2.

(d) 108 feet to blacktop farm to market road which connects to U. S. Highway 276 five miles away. 130 miles to U. S. Mica Depot at Spruce Pine, North Carolina. Five miles to Simpsonville, South Carolina, my residence and most supplies

(e) Labor available at Simpsonville, South Carolina. Population approximately 2,500. Construction equipment of all types available at Greenville, South Carolina.

Water supply - spring 250 feet.

Power - Duke Power Company. 220 single phase current; 220 3 phase available if sufficient need is established.

5. (b) I plan to continue bulldozer cut down as far as possible; following extruded mica down. When conditions warrent, a mast and boom will be installed to lift muck to earth surface. When hard rock strata is encountered, an air drill and explosives will be necessary to break out hard rock.

When core of vein is reached, I plan to drift a horizontal shaft following vein to produce strategic mica. See sketch No. 2.

(d) I have had twelve years experience in various phases of construction work and have been observing mining operations for six months and three months actual mining. I plan to personally supervise the operation.

6.

Bulldozer excavating 860 cu. yds. _.35 cents per cu. yd.		$300.00
Sinking shaft on vein 50 ft. $45.00 per ft. ---		$2250.00
100 ft. drift work $35.00 per ft.		$3500.00
	Total	$6050.00

Air compressor	$200.00 --$250.00	per	mo.
Hoist	$40.00 -- $50.00	"	"
Pump	$20.00 -- $30.00	"	"
Jack - hammer	$40.00 -- $50..00	"	"

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

legal description of S.D.Knight Estate recorded in book 55 page I46
II9.3 acres less 3I½ acres by deed to
John & Edith Knight In I948

Beginning at a stone in branch, P.L. Huff's corner and running down branch N.79¼W. 3.6I thence I.23 to bend in branch, thence S.73W. 6.40 to bend in thence S.2IW. I.30 to center of branch, thence N.85½W. I.45 to center of road ,thence S.52¼W. 7.29 to iron pin in road,thence N.89¼W. 9.70 to an oak bush , thence N.84W. 6.37 to a stone thence S.79¼W. I.37 to a blackgum on branch thence down I7.07 to a hickory 3x, thence S.74 3/4 W. I8.00 to center of river (Reedy) , thence up center of river to a point in river, Agustus Huff's corner, thence N.53½E. 32.00 to a stone 3x, thence S.89 3/4 E. 28.25 to a stone P.L. Huff's corner, thence S.38 3/4 W. I3.25 to beginning corner, containing II9.3 acres.

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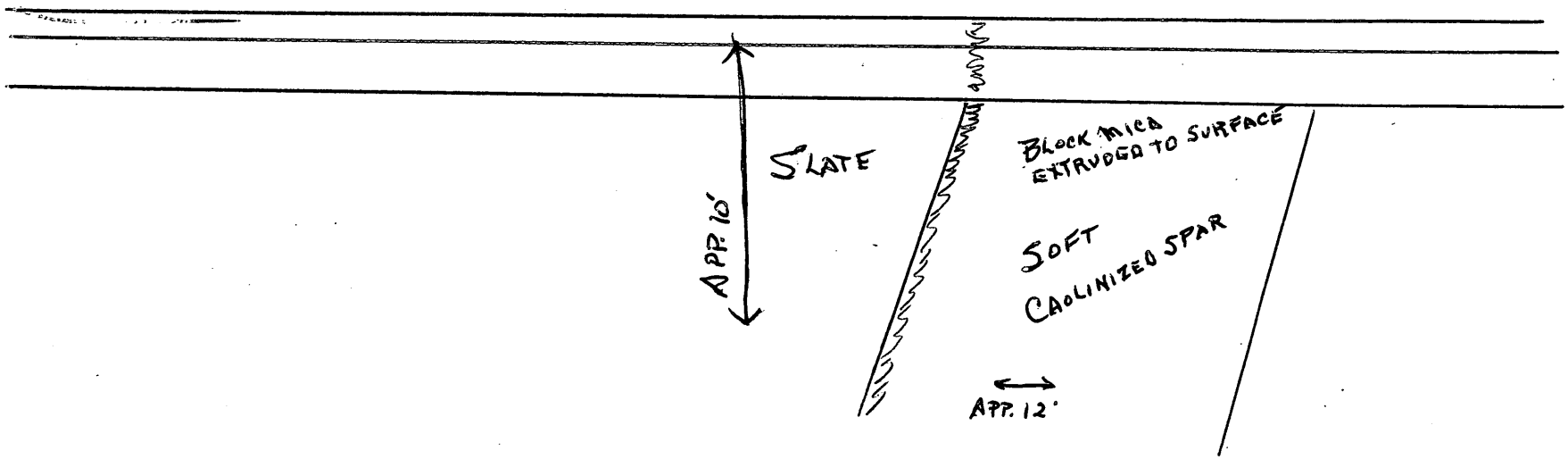
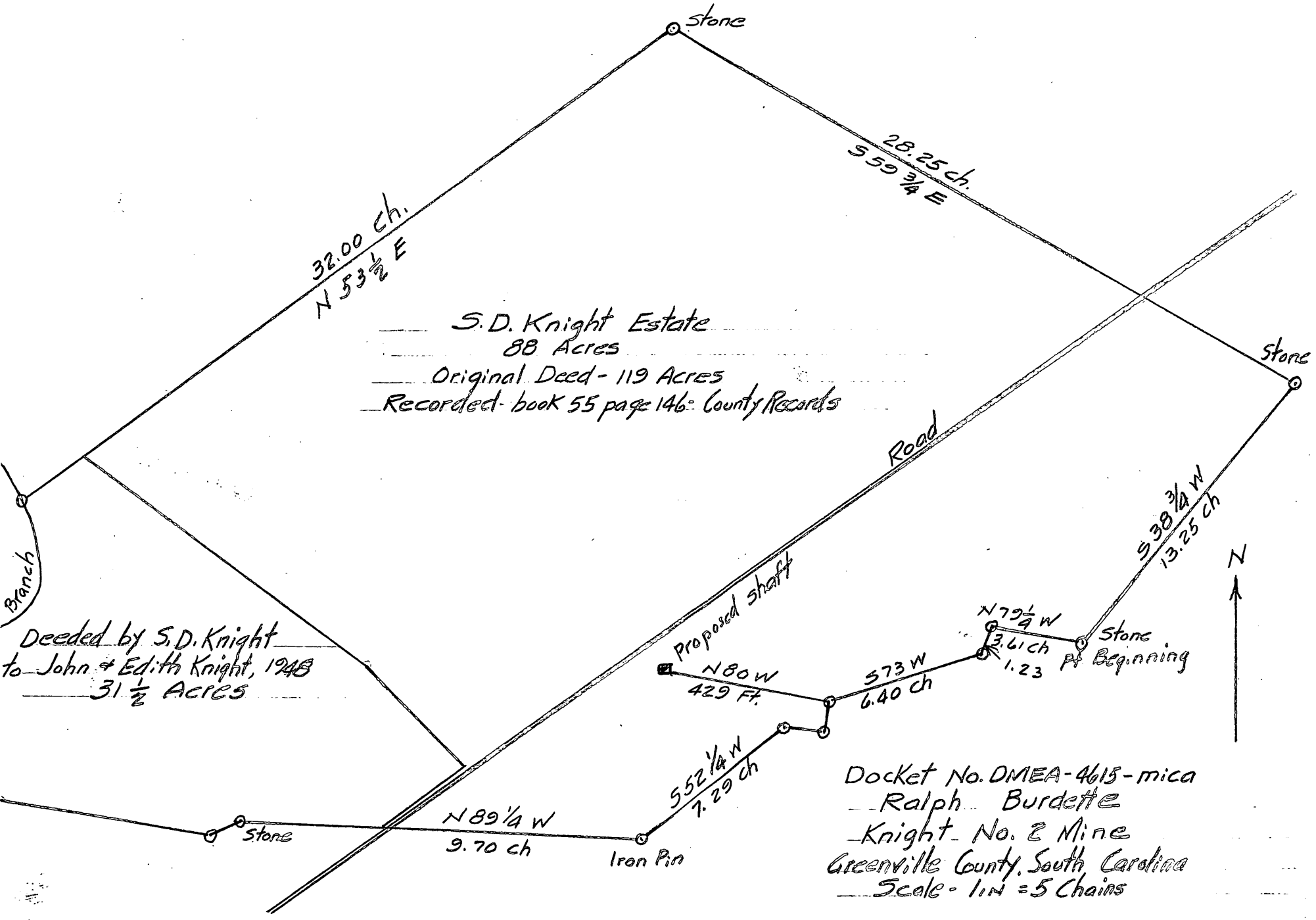
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

SKETCH 2


SLATE
APP. 10'
BLOCK MICA
EXTRUDED TO SURFACE
SOFT
CAOLINIZED SPAR
APP. 12'


Stone
28.25 ch.
S 59 3/4 E
32.00 ch.
N 53 1/2 E
S.D. Knight Estate
88 Acres
Original Deed - 119 Acres
Recorded - book 55 page 146: County Records
Stone
Road
Branch
S 38 3/4 W
13.25 ch
N
Deeded by S.D. Knight
to John & Edith Knight, 1948
31 1/2 Acres
Proposed shaft
N 79 1/4 W
3.61 ch
1.23
Stone
Pt Beginning
N 80 W
429 Ft.
S 73 W
6.40 ch
S 52 1/4 W
1.29 ch
Stone
N 89 1/4 W
9.70 ch
Iron Pin
Docket No. DMEA-4615-mica
Ralph Burdette
Knight No. 2 Mine
Greenville County, South Carolina
Scale - 1 in = 5 Chains

MAP No. 1

Government Messenger Envelope

No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Void previous block.
3. Write clearly.

OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
t C. Morris, Chief al Services ultural Building ark, Maryland	RUN STOP	~~Mr. Rice~~ ~~Rm. 4627~~	RUN STOP
	RUN STOP	~~Accounts~~	RUN STOP
DINEHART R. MINES OLL PARK MD	RUN STOP	~~Mrs. Madden~~ ~~Rm. 2438~~	RUN STOP
~~Robert T. Moyer~~ ~~Analysis Br.~~ ~~Room 1351~~ ~~Dept.~~ ~~Mrs Wrenn~~	RUN STOP	Mrs. Rowe Room 6254	RUN STOP
	RUN STOP	~~Administrator~~ ~~Defense Minerals~~ ~~Exploration~~	RUN STOP
~~Walker~~ ~~Br.~~ ~~Park Plant~~	RUN STOP	~~Code 100~~ ~~4624~~	RUN STOP
~~Geo. Jones~~ ~~3642~~ ~~Geo~~	RUN STOP	~~Mrs Merritt~~ ~~Rm 6020~~	RUN STOP
~~Terry 2520~~ ~~al 2422~~	RUN STOP		RUN STOP
~~Terry~~ ~~522~~	RUN STOP		RUN STOP
	RUN STOP		RUN STOP

envelopes to
for reissue.

Use other side

16—38949-2

Use RUN and STOP only when messenger service between Government buildings in Washington is required.
Your mail room has RUN and STOP information.

Audited 10/25/57

☐ Certified

Name Ralph Burlette

State South Car.

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 11/7/57

Incl. Voucher for Oct-57

Commodity Mica

☑ Actual Cost

☐ Agreed Unit Costs

Docket No. 4615

Idm-E No. 1097

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	80 Ft.	@ 2640.00	80	2640.00	2640.00
Raising					
Shafts	60 Ft.	2640.00	39	1716.00	1716.00
Winzes					
Drilling (Specify)					
Surface Excavation	285 cyds	86.00		85.50	85.50
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.		114.00		114.00	114.00
Other (Specify)					
Totals		5480.00		4555.50	4555.50

Prepared by Walter C. Anderson

71626

A Form 7
(12-56)

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Date	Surname	Code
4/24	Anderson	600
		600
		110
		100
		220

600

Project Summary Report

April 1, 1958

By: Walter C. Anderson, Division of Nonmetallic Minerals

1. Docket No. DMEA-4615-Mica
Contract No. Idm-E1079
Knight No. 2 Mine
Greenville County, South Carolina

Application: Form MF-103 (April 1952) received January 25, 1957.

Work Proposed:

Surface excavation - 860 Cu.Yds. @ $0.35/cu.yd.	$300.00
50 feet of shaft @ $45.00/ft.	2,250.00
100 feet of drift @ $35.00/ft.	3,500.00
Total amount requested	$6,050.00

Operator: Ralph Burdette
P. O. Box 247, Simpsonville, South Carolina

Operator's Property rights: Five year mining lease on the S. D. Knight estate containing 88 acres, dated July 31, 1956. Consent to Lien and Subordination Agreement, dated January 21, 1957.

2. Contract: Form MF-200A (April 1956), dated April 22, 1957.

Work Authorized:

Trench excavation - 285 Cu.Yds. @ $0.30/cu.yd.	$86.00
Construction - Toolhouse, powder & exploder magazine	114.00
80 feet of drifts and/or crosscuts @ $33.00/ft.	2,640.00
60 feet of shaft @ $44.00/ft.	2,640.00
Estimated total cost of project	$5,480.00
Government participation @ 75%	$4,110.00

Amendments: none.

Work Completed:

Trench excavation - 285 Cu.Yds. @ $0.30/cu.yd.	$85.50
Construction - Toolhouse, powder & exploder magazine	114.00
39 feet of shaft @ $44.00/ft.	1,716.00
80 feet of drifts @ $33.00/ft.	2,640.00
Total accepted cost	$4,555.50
Government participation @ 75%	$3,416.62

Work began on June 11, 1957 and completed by October 17, 1957. Field Team Final Report received March 17, 1958. Operator's Final Report received October 25, 1957. Sales of mica resulting from operation amount to $1244.80, - royalty paid - $62.24, which accounts for all the mica produced. Royalty due the Government - None
No equipment purchased under contract.

8623

3. Audit: Report of Review issued October 25, 1957.

Total accepted cost	$4,555.50
Government participation	$3,416.62

4. Certification of Discovery - none issued.

5. Comments:

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

Operation: Good.

Engineering: Reporting by Operator was satisfactory.

Geologic Premise: The work proved that whatever mica-potential indicated by prior surface excavation was long ago removed by erosion, as the keel of the structure was reached at shallow depth.

Geologic Criteria upon which work was based:

1. Pegmatite: 5 to 30 feet wide, exposed for 60 feet along strike, discordantly emplaced in a sillimanite-mica schist, and composed of badly weathered plagioclase, disseminated quartz, and muscovite. Muscovite occupies 5 to 10 percent by volume of pegmatite.
2. Mica: Ruby, hard, flat to flat-A, essentially free from mineral intergrowths. Most is free-splitting.
3. Past Production.

Geologic Criteria developed during project:

1. Pegmatite: "Tadpole" shaped, whose head is a bulbous oval 30 by 40 feet across, with a 3 to 8-foot thick tail followed for 71 feet in length. Bottomed at 39 feet in depth. Discordantly emplaced in a sillimanite-mica schist. Composed of a medium-fine to medium-coarse aggregate of soft, kaolinized plagioclase, interstitial quartz, and minor small muscovite. Most of the pegmatite has been removed by erosion.
2. Mica: Reddish-brown, moderate amount of edge-cracking, ruling, and oxide intergrowth. Flat, hard, free-splitting and books up to 4 to 6 inches across.

Future Possibilities: Too small a deposit for an economic commercial operation, since it bottoms at 39 feet and too large a percentage of the mica is of poor quality.

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

Walter C. Anderson

Walter C. Anderson
Division of Nonmetallic Minerals

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

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

DMEA
RECEIVED MAR 31 1958

DATE		CODE
3/31	C	220
		600

March 27, 1958

Memorandum

To: Finance Officer, Region V - DMEA (Norris)

From: Acting Executive Officer, DMEA - Region V

Subject: Royalty Payment - DMEA-~~4616~~ 4615, Idm-E1079-mica.
Ralph Burdette - Knight No.2 Mine,
Greeneville County, South Carolina.

Transmitted are final settlement sheet on the subject contract in the amount of $774.03, and a check for 5% of the sales in the amount of $38.69.

V. J. Lynch

sm.
cc
Lynch
Mittendorf
Files

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - Spruce Pine, N. C.

PROGRAM: [X] A [ ] B

DATE PURCHASED: 2-12-58

ACCEPTANCE NUMBER: AA3-744 (a)

CERTIFICATE AUTHORIZATION NUMBER: [illegible]-4-1874 A

LOT NUMBER: [illegible]-744 (a)

VOUCHER NUMBER:

SCHEDULE NUMBER:

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER		$	$		$ 70.00	$
GRADES NO. 3 AND LARGER				.41	40.00	16.40
GRADES NO. 4 AND 5				3.86	17.70	67.97
GRADES NO. 5½ AND 6						
STAINED					31.90	
GRADES NO. 3 AND LARGER		12.00		.61	18.85	14.78
GRADES NO. 4 AND 5		5.00		11.03	7.55	83.26
GRADES NO. 5½ AND 6		3.00				
HEAVY STAINED					14.80	
GRADES NO. 3 AND LARGER		8.00			6.85	
GRADES NO. 4 AND 5		4.00		.62	4.00	2.72
GRADES NO. 5½ AND 6		2.00				
TOTALS			$			$

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER		$	$		$ 70.00	$
GRADES NO. 3 AND LARGER					40.00	
GRADES NO. 4 AND 5					17.70	
GRADES NO. 5½ AND 6						
STAINED					25.55	
GRADES NO. 3 AND LARGER		9.60			14.90	
GRADES NO. 4 AND 5		4.00			6.25	
GRADES NO. 5½ AND 6		2.40				
HEAVY STAINED					11.85	
GRADES NO. 3 AND LARGER		6.40			6.45	
GRADES NO. 4 AND 5		3.20			4.00	
GRADES NO. 5½ AND 6		1.60				
TOTALS			$			$

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim) 16.77 LBS. $ 185.15

ADJUSTED VALUE WHEN LESS THAN 18% 6/8 P ABOVE VALUE $ _____ X _____ (18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING

FINAL BASIS FOR PAYMENT $ 185.15 ✓

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER 92.75

BALANCE DUE [X] SELLER [ ] GOVERNMENT $ 92.40

NAME AND LOCATION OF MINE

Wright #2
Simpsonville, S. C.
1 OE L B 25.30

SELLER'S NAME AND ADDRESS (Type or print)

Ralph Sudderth
Box 247
Simpsonville, S. C.

PROCESSED FOR PAYMENT (LBS.)	16.77
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING [illegible]	.15 [illegible]
TOTAL POUNDS PURCHASED	16.62

APPROVED

DEPOT SUPERINTENDENT

DATE 3-14-58

RECEIVED MAR 31 1958

GSA WASH D C 58-3177

GSA FORM 1073a SEPTEMBER 1957

FORM APPROVED BY COMP. GEN., U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - PROGRAM B - MICA PURCHASE

(MICA REGULATION 7, REVISION 3, AMENDMENT 2, FURTHER AMENDED BY 4 AND 8)

MICA PURCHASE DEPOT - Spruce Pine, N. C.

DATE PURCHASED: 10-3-57

ACCEPTANCE NUMBER: [illegible] (a) [illegible] 8000

W.A.I. NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[illegible]-3-20 B	[illegible]-61 (a)		

TYPE OF MICA	POUNDS PURCHASED	INITIAL PAYMENT
[X] RUBY [ ] NONRUBY	3005.00	$ 55.56

STATEMENT OF ACTUAL YIELD

QUALITY	POUNDS	PROGRAM A - VALUE STAINED MICA (5)
1. GOOD STAINED AND BETTER	17.40	
2. STAINED	18.63	$ 142.03
3. HEAVY STAINED	4.1	
4. TOTAL YIELD	40.6	

COSTS

1.23 Blk. Spotted 1.32 B. Stain

6. RIFTING: 14.5 HOURS X $ 1.05 = $ 136.45

7. TRIMMING: 185 HOURS X $ 1.10 = $ 203.50

8. RIFTING AND TRIMMING (Per pound)

TOTAL COSTS (Items 6 and 7) $ 339.95 ÷ TOTAL YIELD (Item 4) 40.51 = COST PER LB. $ 8.03

COMPUTATION OF FINAL PAYMENT

9. POUNDS OF GOOD STAINED AND BETTER (Item 1) 17.40	$ [illegible] LB. - NONRUBY; X $ 37.037 PER LB. - RUBY =	$ 644.44
10. POUNDS OF STAINED (Item 2)		NUMBER OF POUNDS 18.63
11. POUNDS OF GOOD STAINED AND BETTER (Item 1) 17.40 X 1.5 = EQUIVALENT LBS. OF STAINED		NUMBER OF POUNDS 26.10
12. DIFFERENCE (Item 10 minus 11)		NUMBER OF POUNDS -0-
13. PROGRAM A - VALUE OF STAINED (Item 5) $ 142.03 ÷ LBS. OF STAINED (Item 2) 18.63 =		(Per lb.) $ 7.62
14. DUE SELLER ON STAINED (Item 12) X (Item 13)	$	$
15. TOTAL (Item 9 + Item 14)		$ 644.44
16. COST OF RIFTING AND TRIMMING (Item 12 X Item 8)		$
17. GROSS AMOUNT DUE SELLER (Item 15 - Item 16)		$ 644.44
18. MAXIMUM ALLOWABLE (3005.00 lbs. X 30¢)		$ 901.50
19. INITIAL PAYMENT		$ ~~55.56~~ 55.56
20. DUE [X] SELLER [ ] GOVERNMENT		$ 588.88

NAME AND LOCATION OF MINE

Knight #3, Ashcraft County, N. C.

SELLER'S NAME AND ADDRESS (Type or print)

Ralph Durdette
Box 247
Simpsonville, N. C.

APPROVED

DEPOT SUPERINTENDENT

[signature]

DATE: 12-23-57

GSA WASH D C 68-3177

GSA FORM 1013b SEPTEMBER 1957

Operating Committee

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 24 1958

DATE	INITIALS	CODE
3/24	C	220
3/25		800
		600

March 20, 1958

Mr. Ralph Burdette
P. O. Box 247
Simpsonville, South Carolina

Re: Docket No. DMEA-1615 (Mica)
Knight No. 2 mine
Greenville County, South Carolina
Contract No. Idm-E1079

Dear Mr. Burdette:

On October 21, 1957, you paid royalty of $2.78 on an initial payment of $55.56 for a sale of 3005 pounds of mica to the Spruce Pine Depot.

The Depot records indicate that on December 13, 1957, the Depot paid you an additional $588.88 as final settlement on this sale. Therefore $29.44 is due the Government as royalty on this sale. Please send me your check for that amount, payable to the Defense Minerals Exploration Administration. If any other sales, including scrap and punch have been made they, too, are subject to the 5 percent royalty.

Sincerely yours,

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

RAL/mg
cc - Operating Committee (2)
Mr. V. J. Lynch
File

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

March 13, 1958

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DATE		CODE
3/17	C	220
3/17	[illegible]	130
"	[illegible]	110
3/19	[illegible]	130
3/20	C	220
3/25	[illegible]	600

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Final Field Team Report - DMEA-4615 (mica)
Ralph Burdette, Simpsonville, S. C.
Knight No.2 Prospect, Greenville County, S. C.

Transmitted are three copies of the subject report with maps attached.

The Field Team concurs with the Examiners that certification of discovery cannot be recommended on this project.

Robert A. Laurence

Robert A. Laurence
Executive Officer, DMEA
Region V

Stanley A. Feitler

S. A. Feitler for V. J. Lynch
Member, Bureau of Mines

Field Team Final Rpt

Reviewed by
DMEA OPERATING COMMITTEE
3-19-58
(date)

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DMEA
RECEIVED MAR 17 1958

DATE		CODE
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(Lee 7T memo)		110
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		220

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT

Field Team Region V

DMEA-4615, Idm-E1079(mica) KNIGHT No.2 PROSPECT
Greenville County, South Carolina

By

S. C. Bergman, Geologist
Geological Survey

and

L. E. Shirley, Mining Engineer
Bureau of Mines

March 13, 1958

Reviewed by
DMEA OPERATING COMMITTEE
3-19-58
(date)

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DATE | CODE
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220

DMEA EXPLORATION PROJECT

FINAL REPORT

FIELD TEAM REGION V

DMEA-4615, Idm-E1079 (mica) KNIGHT No.2 Pros.

Operator: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

SUMMARY

A northeast trending "tadpole"-shaped pegmatite (see map) was well outlined in plan by both preliminary and contract bulldozing. The keel of the structure was reached by 39 feet of vertical shaft and the tail of the "tad" thoroughly explored to the southwest by 10 feet of crosscut and 71 feet of drift. Productive mica zones appear to be limited to the northwest and southeast margins of the upper part of the head of the "tad" in material now largely removed by erosion and trenching. No productive areas were found below the surface excavations and no certification of discovery can be recommended.

On completion of the contract work, the Operator bulldozed a small pegmatite pod (?) occuring about 100 feet northeast of the shaft and recovered about 1 1/2 tons of block muscovite. The Operator's inexperience in handling and selling the mica resulted in his receiving far less than the indicated value of the approximately 7100 pounds of block muscovite recovered prior and during the contract period.

INTRODUCTION

Location

The contract shaft is located on flat open cotton field, 110 feet southeast of the Harrison Bridge Road, 5.45 airline miles S74½° W from the intersection of US Highway 276 and State Route 417 in the center of Simpsonville, Greenville County, South Carolina.

Contract Work

Except for the bowl-shaped trench excavated by the Operator prior to the DMEA application, the pegmatite was completely untouched by previous exploration.

The preliminary contract bulldozing began June 11, 1957,

Reviewed by
DMEA OPERATING COMMITTEE
3-19-58
(date)

and the underground work completed by October 17, 1957. A trench 105 feet long, 15 feet wide, and 4 to 6 feet deep was excavated with a Caterpillar D-8 tractor which is owned by the Operator. The contract trench trends S25°W from the center of the pre-contract bulldozing. A vertical shaft was collared near the "neck" of the structure (see map), and sunk 39 feet from the bottom of the trench through the keel of the pegmatite. The shaft was completely cribbed and built up to the original ground level, and the trench was backfilled around the shaft collar to the surface. The total shaft depth from the reconstructed surface is 50 feet. At a point 44 feet below this surface, a crosscut was driven 10 feet S55°E across the pegmatite. A total of 71 feet of drift was driven south and southwest from the shaft in the following increments: 15 feet S5°E, 39 feet S32°W and 17 feet due south. Very little drilling and shooting was required because of the soft, decomposed nature of the plagioclase-rich pegmatite. The back of the drift and locally the sides had to be lagged to hold the ground. In spite of the Operator's inexperience in mining, he did a very creditable job and cooperated with the field examiners in every respect. As part of the contract, a toolhouse and powder and exploder magazines were built.

GEOLOGY

In surface plan, the pegmatite is a "tadpole"-shaped structure whose "head" is a bulbous oval 30 x 40 feet across with a 3- to 8-foot thick tail exposed 65 feet S34°W. The contacts are extremely variable in dip, but although locally discordant, the

structure appears to be controlled by structures parallel to the schistosity which strikes N28-48°E, and dips 60 to 85° southeast and 60 to 65° northwest. The country rock is a sillimanite-mica schist, with some quartzose and garnetiferous layers. A highly altered biotite-muscovite schist is found in the drifts adjacent to the pegmatite contacts. At the drift level, the "head" of the structure was found to have tapered downward to approximately 15 x 20 feet in size with an indicated plunge of approximately 45° south-southwest. The plunge appears to flatten below the drift level. The "tail", 4 to 10 feet in thickness, was followed 71 feet south-southwest by the drift work. The average dip of the "tail" is about 72° southeast.

The pegmatite is composed of a medium-fine to medium-coarse-grained aggregate of soft, kaolinized plagioclase, interstitial quartz, and minor small muscovite. Concentrations of muscovite appear to be limited to the northwest and southeast margins or the "head" of the structure near or at the surface.

A total of 2125 pounds of block muscovite was recovered from the preliminary bulldozing, and 250 pounds from the shaft and drift work. The opposing dips of the mica-bearing contacts of the "head" may represent a coalescing of the structure from the surface upwards. The mica-rich material could well have been restricted to the overhanging pegmatite contacts, now largely removed by erosion and bulldozing. One quarter to one third of the recovered block is somewhat "tied" or "locky" and difficult to process. The rest of

the block is fairly high quality, flat, hard, and free-splitting, and in books up to 4 x 6 inches across. The muscovite is a reddish-brown color and contains a moderate amount of edge-cracking, ruling, and a minor amount of fine oxide intergrowth. But of the total recovery of approximately 7100 pounds of block prior to and during the contract, 4883 pounds of 70% was sold or processed. A total of $471.16 has been reported in sales receipts with the final settlement on a block sale of 3005 pounds not yet reported. This block was recovered from a small bulldozer cut in a small pod-like pegmatite about 100 feet northeast of the shaft.

CONCLUSIONS AND RECOMMENDATIONS

The contract bulldozing and the shaft and drift work fully described the shape, size and mica-potential of the subject pegmatite. The only mica of any consequence recovered was from the surface excavation in the "head" of the pegmatite. Whatever mica-potential was present was long ago removed by erosion. Because of this, no reserves were outlined and no certification of discovery is recommended.

EXPENDITURES

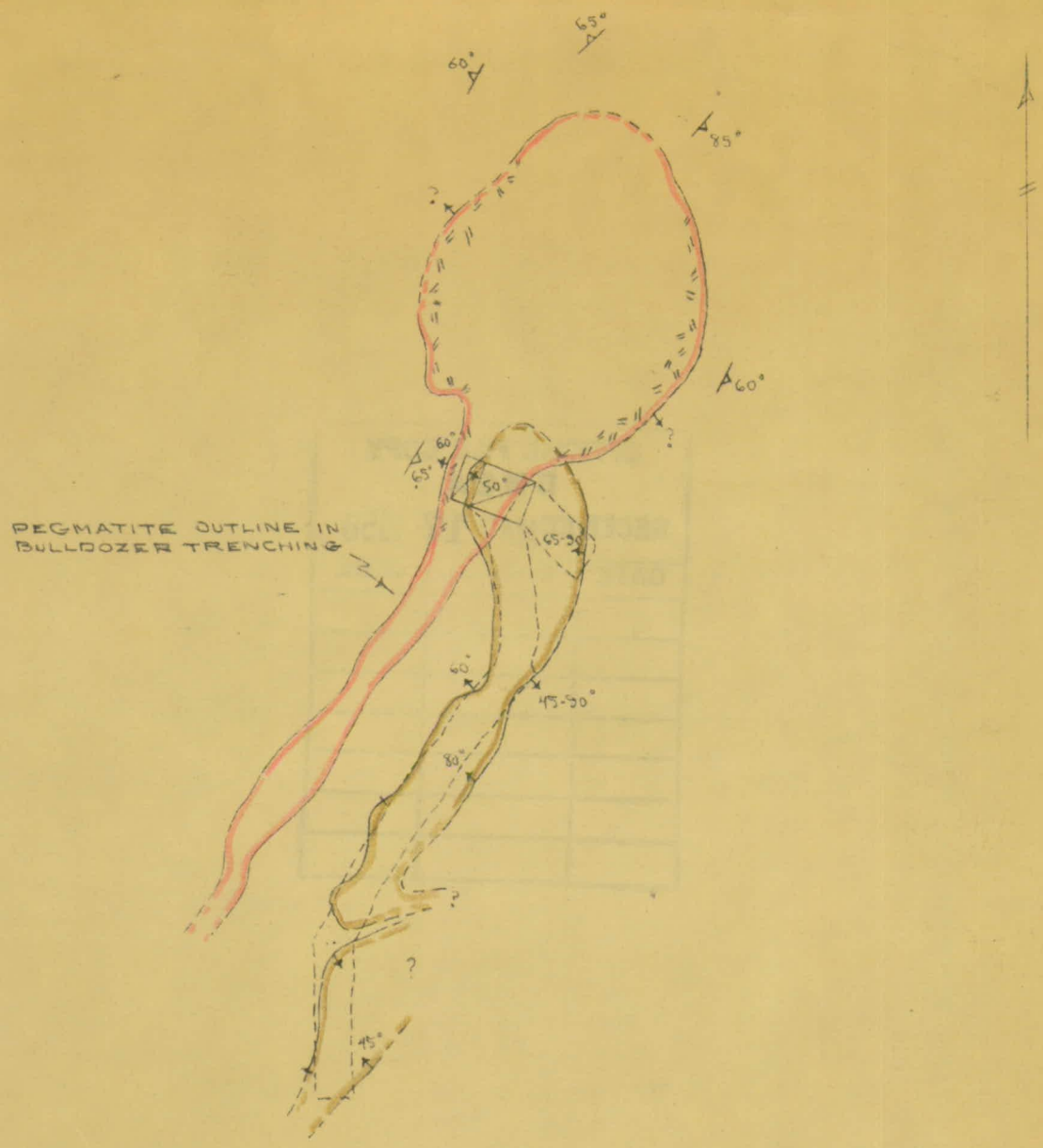
(a)	Total approved	$5,480.00
(b)	Total cost of project	4,555.50
(c)	Government's share of cost	3,416.62
(d)	Government's share unexpended	693.38
(e)	Value of production	471.16 (?)
(f)	Royalty paid to date	23.55

March 13, 1958

S. E. Bergman, Geologist
Geological Survey

L. E. Shirley, Mining Engineer
Bureau of Mines

z



LEGEND

- PLAGIOCLASE, MINOR QUARTZ-MUSCOVITE PEGMATITE
- MUSCOVITE-RICH ZONES
- FOLIATION OF SILLIMANITE-MICA SCHIST
- PLAN OF CONTRACT DRIFT

KNIGHT NO. 2 PROSPECT
GREENVILLE COUNTY SOUTH CAROLINA

DMEA-4615, Idm. E-1079
(MICA)

SCALE: 1" = 20'

JCB 3/57

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DMEA
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DATE	INITIALS	CODE

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

March 19, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4615 (mica)

Applicant: Ralph Burdette

Name and Location of Property: Knight No. 2 Prospect
Greenville County, South Carolina

Contract Number: Idm-E 1079

Date of Field Team Final Report: March 13, 1958

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: March 18, 1958

Field Team Recommendation: Recommend that project not be certified.

Comments:

1. A previously unexplored "tadpole"-shaped pegmatite was explored under DMEA contract by 39 feet of vertical shaft, 10 feet of crosscut, and 71 feet of drift.

2. Although some good quality mica was recovered no reserves were outlined. Geology of the location indicates that if any quantity of strategic mica did exist it has been destroyed by erosion.

3. Expenditures -

Total approved	$5,480.00
Total cost of project	4,555.50
Gov't. share of the cost	3,416.62
Value of production	471.16
Royalty paid to date	23.75

Recommendation:

I concur with the recommendation of the field team that this prospect not be certified.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

RECEIVED		
DATE	INITIALS	
3/20	C	2-20
		6-00

March 19, 1958
Re: DMEA 4615 Idm-E1079
Ralph Burdette
Knight No. 2 Prospect
Greenville County, S. 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, authorized the expenditure of $5,480.00 in exploring a tadpole shaped pegmatite by shaft sinking, drifting and crosscutting. The shape was shown by stripping and the form persists, although the mass is shrinking, to the level of the drifting and crosscutting.

Whereas the bulldozing had indicated the existence of a pegmatite with good mica-bearing potential, the work suggests the upper part of the 'head' of the pegmatite carried the mica recovered in bulldozing. Erosion probably has removed most of the mica-bearing part of the pegmatite and left a low grade bottom and 'tail'.

The work cost $4,555.50, of which the Government contributed $3,416.62. The value of production to date is $471.16 and $23.55 has been remitted as royalty.

The examiners recommend that no certification be imposed. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

Form MF-101 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

RECEIVED NOV 7 1957 DMEA

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of OCT, 1957 Docket No. DMEA 4615 Contract No. 1DM-E1009

Operator's Name RALPH BURCETTE Minerals MICA

Address Box 247 SIMPSONVILLE, SC.

Contract Amount, $ 5480.00 Government Participation: 75 % Amount, $ 4110.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing 286 CU YD		86.00	86.00		86.00	86.00
Crosscutting 10 FT		330.00	330.00		330.00	330.00
Drifting 28	924.00	1386.00	2310.00	924.00	1386.00	2310.00
SHAFT		1716.00	1716.00		1716.00	1716.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track TOOLHOUSE		75.00	75.00		75.00	75.00
Farmers		25.00	25.00		25.00	25.00
EXP Tody		14.00	14.00		14.00	14.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify): Deduction (See Report of Review 10/25/57)				-.50		-.50
TOTALS	924.00	3632.00	4556.00	923.50	3632.00	4555.50

Operator's Final Rept

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

Date OCT 18 *Payee RALPH BURCETTE

Per [signature] Title Agent

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

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

(Instructions on reverse)

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

$ 692.62

Signature Helen R. Mullin
(Authorized Certifying Officer)

Date NOV 5 1957 Vou. No. 80

(See other side)

230.88

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1079 in accordance with the terms of the contract.

Signature [illegible] Title U. S. BUREAU OF MINES Date OCT 31 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date OCT 31 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED

Month of OCT 195 7 Docket No. DMEA 4615 Contract No. 10 ME 1011

Operator's Name RALPH BURDETTE Minerals MICA

Address SIMPSONVILLE, SC

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	FT	924.00	28	2310.00	70	33.00	80	33.00
Crosscutting	FT			330.00	10	33.00		
Raising								
Shafts	FT			1716.00	39	44.00	60	44.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping Tool House	EA			75.00	1	75.00	1	75.00
Trenching Powder Mag.	EA.			25.00	1	25.00	1	25.00
Test Pits EXP Mag.	EA			14.00	1	14.00	1	14.00
Roads and Trails								
BULLDOZING	CU YD.			86.00	295	0.30	285	0.30
Total Distributed Costs		924.00	28	4556.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		924.00	28	4556.00				

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

Date OCT 18.57 Operator RALPH BURDETTE

Per Ralph Burdette Title Operator

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

Remarks:

(Instructions on reverse)

(For Government use only)

MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

MONTH OF OCT.
WORK accomplished

DMEA. 4615.
IDM-E - 1079.

Continued to drift along grade west about 28 ft. which makes a total of 70 ft of drift; with 10 ft. of crosscut reported in Aug. giving a total of 80 ft. of actual work allowed in contract.

Not enough mica to continue to operate, Called to DMEA field team Yesterday and work terminated by mutual consent. This is a final report.

EXTRA COPY
DMEA
RECEIVED NOV 7 1957

DATE	INITIALS	CODE
11/7	gb	220
		110
		600

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 28 1957
DATE | INIT | CODE
10/28 | gb | 220
600

INTERIM REPORT

DMEA-4615, Idm-E1079(mica) KNIGHT No.2 Mine

Operator: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S75½°W of the center of Simpsonville, Greeneville County, South Carolina

This project has been completed. A vertical shaft was sunk 39 feet from the bottom of the bulldozer cut. The collar was cribbed and backfilled 11 feet up to the original ground level. As the pegmatite bottomed 5 feet above the end of the shaft, levels were turned off 6 feet above the bottom; 44 feet below the original ground level.

A crosscut was driven 10 feet S55°E from the shaft intersecting a schist contact striking due north and dipping 60°west.

Seventy-one feet of drift was driven from the shaft S5°E 15 feet, S32°W 39 feet, and south 17 feet. This drift was in kaolinized soda rich pegmatite and weathered schist which required timber all the way and only a few holes per round.

The pegmatite body was continuous and 5 to 8 feet thick. It was rich in plagioclase, but had no continuous quartz core with which the better, near surface mica was associated. Scattered books of muscovite of medium to poor quality (clay stain, ruling and cracks) were found associated with scattered lenses of smoky quartz 6 to 12 inches long.

The Operator reported approximate mica recovery as follows:

1875 lbs bulldozing under contract
250 " shaft and drift
3000 " Bulldozing 100 ft from shaft (about end of Sept)

The last 3000 pounds, above, brought a $55.56 preliminary payment at the GSA Depot in Spruce Pine, N.C.

The Operator, though not experienced, was cooperative and did a creditable mining job. Certification will not be recommended.

Inspected: Oct. 17, 1957

S. A. Feitler, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

z

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/28	gb	220
10/30	[illegible]	600

OCT 28 1957

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

Re: Docket No. DMEA-4305 (Mica)
Ernest B. Wood
E. B. Wood Mine
Hart County, Georgia
Contract No. Idm-E980
and
Docket No. DMEA-4615 (Mica)
Ralph Burdette
Knight No. 2 Mine
Greenville County, S. C.
Contract No. Idm-E1079

Dear Mr. Laurence:

As requested in your memoranda of October 22 and October 23, 1957, a Report of Review in lieu of a final audit of the referenced projects has been prepared. The original and three copies of each report, together with the original of the final MF-104's submitted with your memoranda, are enclosed.

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

Sincerely yours,

(Signed) E. D. Talbert

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

Enclosure

EDTalbert/wb
October 28, 1957

Copy to: Docket (2)
Admr. Reading File
Helen R. Miller
Mr. Chambers

8623

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 25 1957

DMEA. 4B/15
1 DM-E 10-79

DATE	INITIALS	CODE
10/25	glr	220
10/28	[illegible]	800
10/30	[illegible]	600

Recap of work reported last month

June - Made bulldozer cut 10 ft deep
Sunk shaft - 9 ft. Cribbed + backfilled to earth surface.
Installed power pole - 220 single ph. current.
Built toolhouse.
Recovered 1178# of mica with bulldozer sold Mica to (Pinkwoolens) 1178# to J.D. Buchanan $235.60 and seven hundred lbs. to Lewis Crowder $180.00 making a total of $415.60.

July - Continued to sunk shaft. 17½ ft.
Built Pow. mag. + Exp. mag.

Aug. Continued to sink shaft - Bottomed on slate 43 ft from earth surface Continued to 50 ft Was Definitely bottom - set in stage at 43 ft level and cross cut 10 ft to East slate.

Sept. Cut into south wall of shaft and drifted 42 ft in pegmatite alongside - West slate

Oct. Continued drift for a total of 71 ft.

Made a ten foot cut with Bulldozer app. 100 ft. from shaft on north side, while operation was held up by lack of shoring timber; produced 3005 ± block mica which was sold to U.S. Mica Depot - received initial payment of $55.56. I do not expect too much of this shipment.

Have app. 250 ± of small block mica produced in shaft and dept have not decided best way to dispose of this.

Total mica production & disposition

1178 lb.	$235.60	J.R. Buchanan & Lucy Pinck c.o.
700 "	180.00	Lewis Crowder " " "
3005 "	In P. 55.56	U.S. Mica Depot " " "
4883 "	471.16	
250 "	on hand.	

Check for $23.55 enclosed to cover 5% of $471.16 due govt under terms of contract.

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 24 1957

DATE	INITIALS	CODE
10/24	C	220
		600

October 22, 1957

Memorandum

To: Finance Officer, Region V (DMEA)

From: Executive Officer, DMEA - Region V-Knoxville

Subject: Royalty Payment - DMEA-4615, Idm-E1079-mica.
Knight No.2 Mine, Greenevill County, S. C.
Ralph Burdette, Simpsonville, South Carolina

Attached are settlement sheets for mica sold from the subject project in the amount of $471.16, and a check for royalty in the amount of $23.55 to be credited to the subject contract.

Robert A. Laurence

zm
cc
Mittendorf
Lynch
Files

GENERAL SERVICES ADMINISTRATION
REGION 3

WARRANTY, ACCEPTANCE AND INVOICE

MICA PURCHASING DEPOT, SPRUCE PINE, N. C. B

DATE PURCHASED 10-3-57		ACCEPTANCE NO. BR3-[redacted] Max. $600 per ton
CERTIFICATE AUTHORIZATION NO. DMS-3-208	LOT NO. SP BR-[redacted]	VOUCHER NO.
RUBY [X] NON-RUBY [ ]	TOTAL LBS. PURCHASED	VALUE - INITIAL PAYMENT
PRELIMINARY PAYMENT	3005.00	55.56

THIS LOT OF MICA, WEIGHT ABOVE INDICATED, IS ACCEPTED FOR THE GOVERNMENT SUBJECT TO ALL PERTINENT REGULATIONS AND LAWS GOVERNING THE DOMESTIC MICA PROCUREMENT PROGRAM.

GENERAL SERVICES ADMINISTRATION

BY Ed S. Burleson

SIGNATURE

BUYER

THE UNDERSIGNED WARRANTS THAT THIS LOT OF MICA, WEIGHT ABOVE INDICATED, MEETS THE REQUIREMENTS OF ALL APLLICABLE REGULATIONS AND LAWS GOVERNING THE MICA PROGRAM. FURTHER, THE UNDERSIGNED HEREBY SELLS THIS LOT OF MICA TO THE GOVERNMENT SUBJECT TO ALL LAWS AND REGULATIONS GOVERNING THE PURCHASE OF MICA BY THE GOVERNMENT AND AGREES TO ACCEPT THE PROCESSING RESULTS AS VALID AND CORRECT AND TO REFUND UNCONDITIONALLY ANY OVERPAYMENT WITH THE UNDERSTANDING THAT ANY UNDERPAYMENT WILL BE MADE BY THE GOVERNMENT UPON COMPLETION OF THE PROCESSING OF THIS MICA. THIS INVOICE IS CORRECT AND JUST AND PAYMENT THEREFOR HAS NOT BEEN RECEIVED.

FOR USE BY GSA ONLY

NAME AND LOCATION OF MINE

Knight No. 3 ~~Anderson County, N. C.~~
Polk Co. SC

SELLER Ralph Burdette	DATE 10-3-57
ADDRESS Box 247, Simpsonville, S. C.	
BY [signature]	TITLE Owner

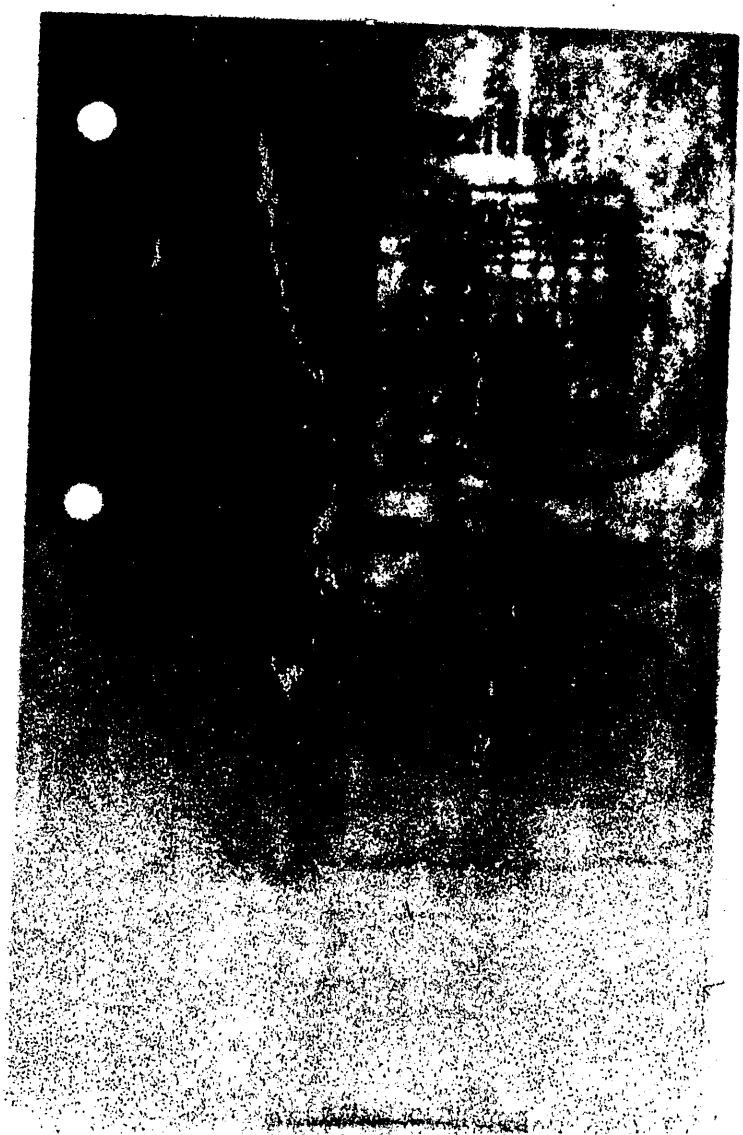
GSA-WASH DC 58-593

R3-T151 JULY 1957

Knight #2 mine
DME A-4615.

Mica bought BY Lewis Crowder
seven hundred lbs 180.00
One hundred and Eighty dollars

180.00



1178 lbs @ .204 = 235.60

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

October 22, 1957

EXTRA COPY DMEA RECEIVED OCT 24 1957		
DATE	INITIALS	CODE
10/24	C	220
		600

Memorandum

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

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

Subject: Completion of DMEA-4615, Idm-E1079-mica.
Ralph Burdette, Simpsonville, South Carolina
Request for Report of Review.

Work on the subject contract has been completed.

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

1. Construction of toolhouse, powder magazine and exploder magazine.
2. Excavated 286 cu.yds. material in exploration trenching.
3. 39 feet of shaft sinking.
4. 80 feet of drifts and/or crosscutting.

An adequate engineering and geological report has been received. Original copy of the final report and voucher is attached.

Robert A. Laurence

VJL/xm
cc
Opr. Com.-2

Lynch-Files

INTERIM REPORT

DMEA-4615, Idm-E1079 (mica) KNIGHT No.2 MINE

Operator: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S75½°W of the center of Simpsonville, Greeneville County, South Carolina

The drift was advanced 16 feet S33°W during the interim. Drifting and crosscutting now total 52 feet, lagged tight overhead and as needed on the sides.

The pegmatite body is composed of medium fine-grained kaolinized plagioclase with blobs of smoky quartz and small, ruled books of muscovite. A few areas of feldspar with quartz in graphic intergrowth were noted.

The dike is 3 to 5 feet thick and its attitude is N40°E vertical.

Drifting southwest on the pegmatite will be continued. Less than 50 pounds of small block mica was recovered.

Inspected: October 2, 1957

ORIGINAL FILE COPY
DMEA
RECEIVED OCT 14 1957
DATE CODE
10 14 C 220
15 Com 100

S. A. Feitler, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 17

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of SEPT. 1957 Docket No. DMEA 4615 Contract No. 10ME1079

Operator's Name RALPH BURDETTE Minerals MICA.

Address BOX 247 SIMPSONVILLE, S.C.

Contract Amount, $ 5480.00 Government Participation: 75% Amount, $ 4110.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing 285 CU YD.		86.00	86.00			
Crosscutting 10 FT.		330.00	330.00			
Drifting 42 FT	1386.00		1386.00			
SHAFT 50 FT.		1716.00	1716.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track TOOLHOUSE		75.00	75.00			
POW. MAG.		25.00	25.00			
EXP MAG.		14.00	14.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1386.00	2246.00	3632.00	1386.00	2246.00	3632.00

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

Date SEPT 30 57 *Payee RALPH BURDETTE

Per Ralph Burdette Title OPERATOR

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

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

(Instructions on reverse)

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

$ 1039.50

Signature Helen R. Miller
(Authorized Certifying Officer)

Date OCT 4 1957 Vou. No. 62

(See other side)

346.50

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1079 in accordance with the terms of the contract.

Signature V. J. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date OCT 2 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date OCT 2 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED OCT 8 1957 D.M.E.A.

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

Month of SEPT. 195 7 Docket No. DMEA 4615 Contract No 10MEN079
Operator's Name RALPH BURDETTE Minerals MICA.
Address BOX 247 SIMPSONVILLE, S.C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	FT	1386.00	42	1386.00	42	33.00	80	33.00
Crosscutting	FT			330.00	10	33.00		
Raising								
Shafts	FT			1716.00	39	44.00	60	44.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping TOOLHOUSE	EA			75.00	1	75.00	1	
Trenching 7M. MAG	EA			25.00	1	25.00	1	
Test Pits EXP. MAG	EA			14.00	1	14.00	1	
Roads and Trails								
BULLDOZING	CU YD			86.00	285	0.30	285	0.30
Total Distributed Costs		1386.00	42	3632.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		1386.00	42	3632.00				

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

Date Sept 30 '57 Operator RALPH BURDETTE

Per Ralph Burdette Title OPERATOR

Remarks:

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

(Instructions on reverse)

(For Government use only)

MINING ENGINEER
U. S. BUREAU OF MINES
W. J. Lynch

INSTRUCTIONS

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

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

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

GPO 872894

MONTH OF SEPT. 57
WORK ACCOMPLISHED.

DMEA - 4615
IDM.E - 1079

Cut into South wall of shaft. and drifted in weathered pegmatite alongside west slate 42 ft.

Pegmatite hardening somewhat with quite a bit of quartz and small bits of mica. Recovered app. 75 # of small black mica and several pieces of beryl 2½" to 3" by 1½" 35 ft. from shaft.

EXTRA COPY
DMEA
RECEIVED OCT 9 1957

DATE	INITIALS	CODE
10/9	B	220
10/11	[illegible]	600

INTERIM REPORT

DMEA-4615, Idm-E1079(mica) KNIGHT No.2 Mine

Operator: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S74½°W of the center of Simpsonville, Greeneville County, South Carolina

In accordance with the Examiners recommendation made at the time of the previous visit, a drift was started southwest from the shaft. This extends 14 ft S 5°E and 12 ft S25°W in highly kaolinized soda rich pegmatite containing small books of muscovite associated with scattered blobs of smoky quartz. The body also contains spots of fine-grained biotite and manganese minerals. About 50 lbs of small books of muscovite were recovered from the 26 ft of drift driven during the interim.

The Operator was advised to continue drifting on the pegmatite.

Drifts are timbered with 4 x 6 inch posts and caps on 2-inch sills. The sets are lagged solid overhead and on the ribs as needed.

Inspection of the S 55°E crosscut disclosed that a large void exists outside the shaft timber on the southeast end and northeast side of the shaft. The Operator was advised to reinforce the timber in the crosscut, remove several pieces of lagging from the southeast end of the shaft, and fill the void with baled hay.

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 30 1957

DATE		CODE
9/30	C	220
30	Com	100
10/2	Hold	Gov

Inspected: Sept. 18, 1957

S A Feitler

S. A. Feitler, Mining Engineer
Bureau of Mines

F G Lesure

S. C. Bergman and F. G. Lesure, Geologists
Geological Survey

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 12

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of AUG, 1957 Docket No. DMEA 4615 Contract No. 10M-E 1079
Operator's Name RALPH BURDETTE Minerals MICA
Address BOX 247 SIMPSONVILLE, SC.
Contract Amount, $ 5480.00 Government Participation 95 % Amount, $ 4110.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing 28 CU YD		86.00	86.00			
Crosscutting 10 FT	330.00		330.00			
Drifting						
SHAFT 12'	550.00	1166.00	1716.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track TOOLHOUSE		75.00	75.00			
POWMAG		25.00	25.00			
EX MAG		14.00	14.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	880.00	1366.00	2246.00	880.00	1366.00	2246.00

RECEIVED SEP 16 1957 D.M.E.A.

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

Date SEPT. 1, '57 Payee RALPH BURDETTE

Per Ralph Burdette Title OPERATOR

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

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

(Instructions on reverse)

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

$ 660.00

Signature Helen R. Mellen
(Authorized Certifying Officer)

Date SEP 12 1957 Vou. No. 50
(See other side)

220.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. F1079 in accordance with the terms of the contract.

Signature S Feitler Title MINING ENGINEER ~~U. S. BUREAU OF MINES~~ Date SEP 9 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date SEP 9 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-1044
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of AUG 1957 Docket No. DMEA 4615 Contract No. IDME1079
Operator's Name RALPH BURDETTE Minerals MICA
Address BOX 247 SIMPSONVILLE

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting	FT.	330.00	10	330.00	10	33.00	80	33.00
Raising								
Shafts	FT.	550.00	12½	1716.00	39	44.00	60	44.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping TOOL HOUSE	EA			75.00	1	75.00	1	75.00
Trenching POW. MAG	EA			25.00	1	25.00	1	25.00
Test Pits EX. MAG	EA			14.00	1	14.00	1	14.00
Roads and Trails BULLDOZING COND				86.00	285	0.30	285	0.30
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		880.00		2246.00				

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

Date Sept 1, 57 Operator RALPH BURDETTE
Per [signature] Title OPERATOR

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

Remarks:

(Instructions on reverse)

(For Government use only)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

RECEIVED SEP 16 1957 D.M.E.A.

GPO 872894

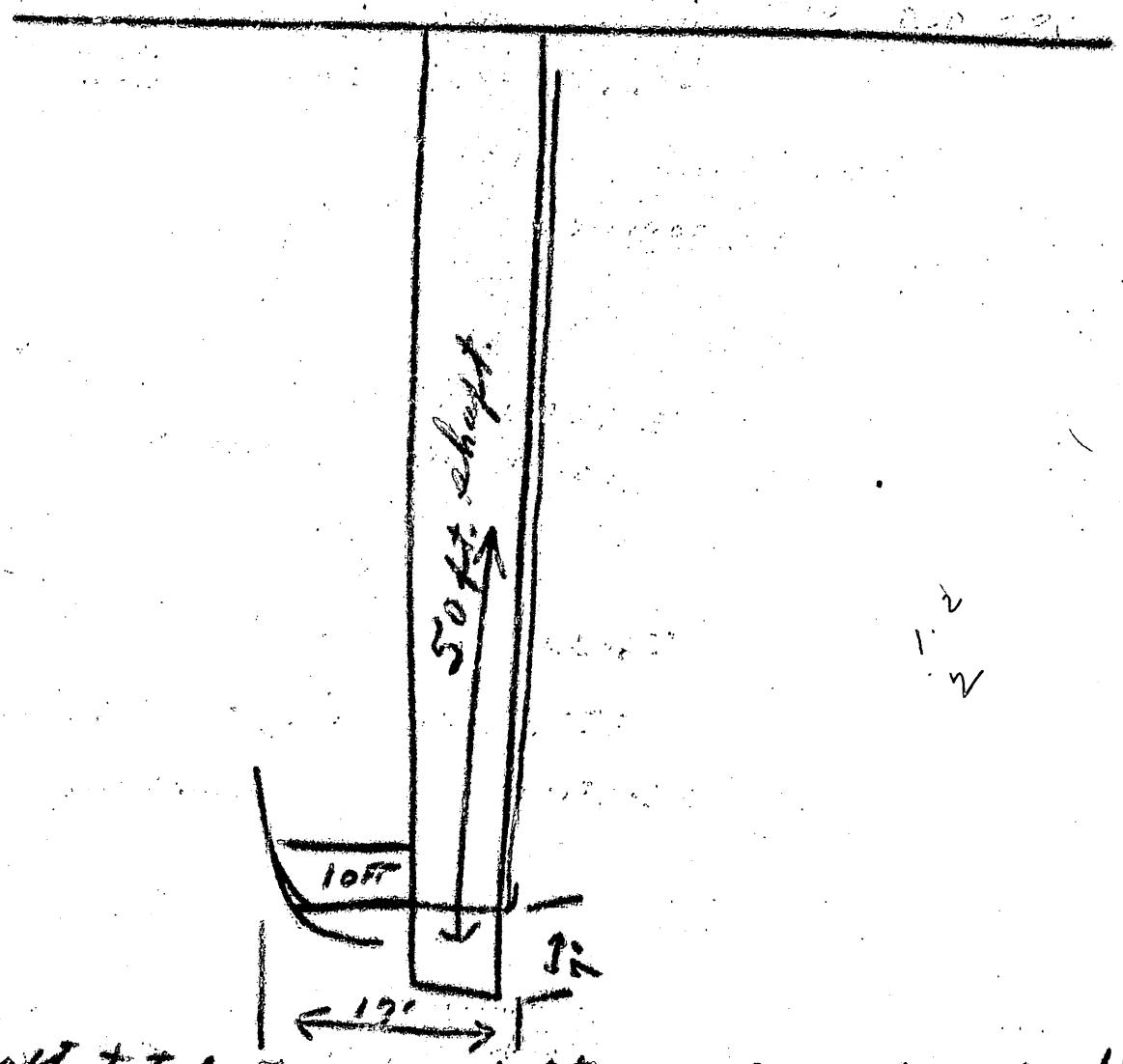
MONTH OF AUG 57

WORK ACCOMPLISHED

DMEA. 4615
IDM.# - 1079

MON. AUG 5 - SUNK - 1 ft.
TUE AUG 6 -
WED AUG 7
THU. AUG 8
MON. AUG 12
TUE AUG 13
WED. AUG 14.
THUR. AUG 15
FRI. AUG 16
} Sinking shaft. + installing Cribbing.

MON. AUG. 19. RAINED.
TUE AUG. 20 INSTALLED NEW PUMP
WED. AUG. 21
THU. AUG 22. BOTTOMED IN SLATE
FRI. AUG 23. Set New Pump + Stage
MON AUG 26. STARTED CROSSCUT.
TUE AUG 27. CUT SHORING
WED. AUG 28
THUR. AUG 29
FRI. AUG 30
} Crosscut TEN FT. IN SLATE



Shaft total 50 ft. set Stage + Crosscut. 10 ft. 10 slate on east side Pegmatite 17 ft. wide at 43 ft.

EXTRA COPY
D M E A
RECEIVED SEP 16 1957

DATE	INITIALS	CODE

INTERIM REPORT

DMEA-4615, Idm-E1079 (mica) KNIGHT NO. 2 MINE

Operator: Ralph Burdette, P. O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S74½°W of the center of Simpsonville, Greeneville County, South Carolina

Shaft sinking has been completed on this contract to a depth of 50 feet from the surface. The first 11 feet consisted of cribbing and back filling around the timbers and was conducted at the Operator's own expense. Contract shaft work with government participation consisted of sinking an additional 39 feet of vertical section in pegmatite that bottomed at this depth. The Operator kept in touch with the footwall contact at all times.

During the Interim, 10 feet of crosscut has been driven S55°E from the shaft bottom, intersecting a mica schist contact striking due north and dipping 60° west. At this point in the crosscut the body appears to plunge 25° SW. The pegmatite material in the crosscut is not encouraging for mica content. The Operator was instructed to return to the shaft and drive a drift to the southwest following a contact striking N30°E and dipping 30° to 50° SE. Material encountered in last shaft work occurred as discontinuous quartz masses in kaolinized feldspar and excellent quality muscovite in small books.

The Operator was advised to use extra care in drifting because of the highly weathered conditions of both the pegmatite and country rock.

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DMEA
RECEIVED SEP 13 1957

DATE	INITIALS	CODE
9/11	Hook	600

Progress on this contract is satisfactory.

L. E. Shirley

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

F. G. Lesure

F. G. Lesure, Geologist
U. S. Geological Survey

Date inspected:

September 5, 1957

INTERIM REPORT

DMEA-4615, Idm-E1079, KNIGHT No.2 MINE (mica)

Operator: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S74½° W of the center of Simpsonville, Greenevillè County, South Carolina.

The shaft was sunk 7 1/2 ft to a total depth of 39 ft since the last visit.

The pegmatite can be seen bottoming on the east and southwest at the 34 ft level in the southwest corner of the shaft/

The ground is weathered and soft. No mica was recovered during the interim.

The Operator was told to turn off to the southeast 6 ft above the shaft bottom, crosscut the pegmatite and drive both ways along it. Conventional shaft sets, sills, and lagging were recommended.

Inspected: August 28, 1957.

S Feitler

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

F. G. Lesure, Geologist
Geological Survey

z

INTERIM REPORT

DMEA-4615, Idm-E1079(mica) KNIGHT No.2 MINE

Operator: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S74½°W of the center of Simpsonville, Greeneville County, South Carolina

The shaft was sunk 13.5 feet during the interim for a total of 31.5 feet in kaolinized pegmatite. Small muscovite books, partly iron and clay stained, occur in and around quartz pods scattered through the dike. A few of the books of mica are as much as 4 x 6 inches. Massive quartz core was last encountered 30 feet from the crib collar, 12.5 feet from bottom.

Schist is exposed in the east corner at the bottom of the shaft. The Operator will test drill to the southwest, northeast, and southeast to try ~~and~~ to locate walls.

Operator was told to continue sinking on the pegmatite, inclining the shaft if necessary.

Approximately 100 lbs of mica, mostly stained was recovered during the interim. The Operator is installing long, bearing crib boards at 6 feet intervals.

Progress is satisfactory.

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DMEA
RECEIVED AUG 20 1957

DATE		CODE
8-19	C	220
19	Com	100
20	Hrdk	600
2		

Inspected: Aug. 8, 1957

S.A.Feitler and L.E. Shirley, Mining ENGRS.
Bureau of Mines

F. G. Lesure, Geologist
Geological Survey

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

Budget Bureau No. 42-R1036.5

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

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 6

Month of JULY, 1957 Docket No. DMEA 4615 Contract No. IDM-E 1079
Operator's Name RALPH BURDETTE Minerals MICA
Address BOX 247 SIMPSONVILLE, S.C.
Contract Amount, $ 5480.00 Government Participation: 75 % Amount, $ 4110.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing 285 CUYD		86.00	86.00			
Crosscutting						
Drifting						
SHAFTS (17½')	770.00	(9') 396.00	(26') 1166.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track TOOLHOUSE		75.00	75.00			
POW. MAG.	25.00		25.00			
EX. MAG.	14.00		14.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	809.00	557.00	1366.00	809.00	557.00	1366.00

RECEIVED AUG 13 1957 D.M.E.A.

I certify that the above bill is correct and just and that payment therefor has not been received.
Date AUG 3 *Payee RALPH BURDETTE
Per Ralph Burdette Title OPERATOR

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$ 606.75
Signature Helen R. Meller (Authorized Certifying Officer)
Date AUG 9 1957 Vou. No. 29
(See other side)

202.25

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1079 in accordance with the terms of the contract.

Signature V. J. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date AUG 5 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date AUG 5 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of JULY 1957 Docket No. DMEA _____ Contract No. 1DMEI079

Operator's Name RALPH BURDETTE Minerals MICA

Address BOX 241 SIMPSONVILLE, SC

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	FT.	990.00	17½	~~[illegible]~~ 1166.00	26½	44.00	60.00	44.00
Winzes								
Drilling: Core								
Churn								
Auger								
TOOLHOUSE	EA.	X	X	75.00	1	75.00	1	75.00
Stripping				25.00	1			
Trenching POW. MAG.	EA.	25.00	1			25.00	1	25.00
Test Pits EX. MAG	EA.	14.00	1	14.00	1	14.00	1	14.00
Roads and Trails					2.85	.30	2.85	.30
BULLDOZING CUYO.		X	X	86.00				
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		909.00		1366.00				

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

Date AUG 3 57 Operator RALPH BURDETTE

Per Ralph Burdette Title OPERATOR

Remarks:

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

(Instructions on reverse)

(For Government use only)

RECEIVED AUG 7 1957 D.M.E.A.

W. J. Lynch
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

MONTH OF JULY '57

DMEA 4615
10M-E 1079

WORK ACCOMPLISHED

July 19 - CONTINUED Sinking shaft 2 ft.
July 22 " " " " 2 ft. - Cribbed 4 ft.
July 23. Installed Mandrey hoist and started drawing.
July 24 Sinked shaft 3 ft.
July 25 " " 3 ft.
July 26 Compressor Changed installation Closer to Work.
July 29. Cribbed and sunk 3 ft.
July 30 Hired another Man, Sunk 4½ ft. shaft
July 31 Cribbed shaft - Mandrey hoist - Nothing.

EXTRA COPY
DMEA
RECEIVED AUG 13 1957

DATE	INITIALS	CODE
8/14	[illegible]	600

ABOVE
FILE
COPY

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 5 1957

DATE	INITIALS	CODE
8/5	Cone	100
8/10	Hrh	600

INTERIM REPORT

DMEA-4615, Idm-E1079 (mica) KNIGHT NO. 2 MINE

Operator: Ralph Burdette, P. O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S74½°W of the center ~~of Simpsonville,~~ Greeneville County, South Carolina

Shaft sinking continues on this contract~~, and the present~~ depth is 18 feet. The shaft section is entirely in pegmatite which is highly weathered and is composed of kaolinized feldspar, a discontinuous quartz core up to 1 foot thick, and small muscovite mica stained with kaolin. A country rock contact on the northwest end of the shaft strikes N20°E and dips 70°-80° SE. About 1875 pounds of mine-run block mica has been recovered from trench excavation and shaft sinking, combined. This mica has been sold in the block to some Spruce Pine, N. C. processors, for which the operator was paid a total of $415.60. The operator is aware of the G.S.A. block purchasing program and was advised that the quality of his mica is above average, and should be processed to realize its true worth.

The operator was advised to continue timbering the shaft. Cribbing extends from the collar to near bottom, and the shaft contains a separated manway. Local labor is being used. A powder magazine and exploder magazine has been been built during the Interim. Recent progress on this contract is satisfactory.

L. E. Shirley

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

G. G. Lesure, Geologist
U. S. Geological Survey

Date inspected:

July 24, 1957

INTERIM REPORT

DMEA-4615, Idm-E1079 (mica) KNIGHT NO. 2 MINE

Operator: Ralph Burdette, P. O. Box 247, Simpsonville, South Carolina

Location: 5.45 airline miles S74½°W of the center of Simpsonville, Greeneville County, South Carolina

Shaft sinking has not been in progress on this contract during the Interim. Construction of a steel hoisting rig has been completed. A tool house has been built and is now in use. Monthly reports were discussed with the Operator, as well as equipment and labor problems. Shaft sinking is expected to resume within the coming week, if the mining crew returns from the Spruce Pine Area.

L. E. Shirley & S. A. Feitler

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

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

Date inspected:

July 11, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 22 1957

DATE		INITIALS	CODE
7	22	C	220
7	22	Com	100

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ON VOUCHER & SCHEDULE OF PAYMENTS K- 3

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of JUNE, 1957 Docket No. DMEA 4615 Contract No. IDM-E1079
Operator's Name RALPH BURDETTE Minerals MICA
Address BOX 247 SIMPSONVILLE, S.C.
Contract Amount, $ 5480.00 Government Participation: 75% Amount, $ 410.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing (285 CU YDS)	86.00	—	86.00			
Crosscutting						
Drifting						
SHAFTING	396.00	—	396.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
TOOLHOUSE	75.00	—	75.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	557.00		557.00			

RECEIVED JUL 22 1957 D.M.E.A.

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

Date JULY 12 *Payee Ralph Burdette

Per Ralph Burdette Title OPERATOR

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

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

(Instructions on reverse)

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

$ 417.75

Signature Helen R. Melli
(Authorized Certifying Officer)

Date JUL 18 1957 Vou. No. 14

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E1079 in accordance with the terms of the contract.

Signature Henry H. Amoo Title Geologist-USGS Date July 15, 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title ACTING EXECUTIVE OFFICER DMEA - REGION V Date JUL 15 1957

MINING EXTENSION U. S. BUREAU OF MINES

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of JUNE 1957 Docket No. DMEA 4615 Contract No. 1DMEE1079
Operator's Name RALPH BURDETTE Minerals MICA
Address BOX 247 SIMPSONVILLE, SC

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	FT.	396.00	9	396.00	9	44.00	60	44.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits TOOLHOUSE	EA	75.00	1	75.00	1	75.00	1	75.00
Roads and Trails								
BULLDOZING (CUT)		86.00	285	86.00	285	.30	285	.30
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		557.00		557.00				

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

Date JULY 12 Operator RALPH BURDETTE

Per Ralph Burdette Title OPERATOR

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

Remarks:

(Instructions on reverse)

(For Government use only)

RECEIVED JUL 22 1957 D.M.E.A.

MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

EXTRA COPY
D M E A
RECEIVED JUL 22 1957

DATE	INITIALS	CODE

[illegible]

continued.

EXTRA COPY
DMEA
RECEIVED JUL 22 1971

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE
7-5	C	220
5	Com	100
7/9	Hark	

INTERIM REPORT

DMEA-4615, Idm-E1079 (Mica) Knight No. 2 Mine

Operator: Ralph Burdette, P. O. Box 247, Simpsonville, S. C.

Location: 5.45 airline miles S74-1/2°W of the center of Simpsonville, Greeneville County, S. C.

Shaft sinking is underway on this contract, following completion of the previous outlined trench work and 21 feet of shaft was measured from the extended shaft collar to the bottom. The shaft contained water and the bottom could not be examined. The shaft has been cribbed solid to at least 20 feet and contains a partitioned manway. A power line has been extended to the mine and an electric pump is being used to handle the water. A toolhouse is being constructed but was not complete at the time of this visit. A steel frame boom mounted on a truck is being used as a hoisting frame with the power drive from the truck engine.

No one was present at the mine at the time of this visit and the operator could not be contacted. Another visit will be made in the near future. Progress on this contract is satisfactory.

Mr. F. Gervosio, I.C.A. participant from the Phillipines, accompanied the examiner on this visit to the mine.

L. E. Shirley

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

June 26, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 24 1957

DATE	INITIALS	CODE
6/25	C	220
75	COM	100
6/26	Hmk	600

INTERIM REPORT

DMEA-4615, Idm-E-1079, Knight No. 2 Mine
(mica)

Operator: Ralph Burdette, P. O. Box 247, Simpsonville, South Carolina

Location: 5.45 airline miles S74 1/2°W of the center of Simpsonville, Greeneville County, South Carolina

The starting date on this contract is June 11, 1957. Trench excavation by bulldozer is nearing completion and when completed will be in excess of 285 cubic yards provided under contract. Instructions were given for extending the trench to the southwest along the trend of the presently exposed body for an additonal 15 to 20 feet. The contacts of the pegmatite with the country rock are very irregular as shown by this trench excavation. A tentative shaft site was spotted and instructions given for sinking in pegmatite following a country rock contact. The trench excavation trends N25°E and when shaped up will be 105 feet long, by 15 feet wide by 4 to 6 feet deep, necessitating the removal of 292 cubic yards of material. Work was in progress at the time of this visit and a D-8 caterpillar bulldozer had spent approximately 7 1/2 hours excavation time. It is estimated that at least an additional 2 hours machine time will be required to shape up and complete trench excavation.

Mica recovered from trench excavation totaled about 700 pounds of mine-run book up to 4" x 6" and smaller sizes. A small percentage of the mica was of excellent quality with the exception of a few scattered black spots.

Inspected: June 12, 1957

L. E. Shirley

L. E. Shirley, Mining Engineer
Bureau of Mines

S. C. Bergman

S. C. Bergman, Geologist
Geological Survey

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

May 31, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 3 1957

DATE	INITIALS	CODE
6/3	C	220
6/4	B	215
		600

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region V

Subject: Signed Contract - Idm-E1079, DMEA-4615-mica
Ralph Burdette, Simpsonville, S. C.
Knight Mine No.2, Greenville County, S. C.

Transmitted are three signed copies of the subject contract.

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

The Operator plans to begin work the latter part of the first week in June.

V. J. Lynch

V. J. Lynch

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

May 21, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 23 1957

DATE	INITIALS	CODE
5/23		220
		600

Mr. Ralph Burdette
P.O. Box 247
Simpsonville, South Carolina

Re: DMEA-4615-mica
Proposed Contract for
Knight No.2 Mine
Greenville County, S. C.

Dear Mr. Burdette:

On April 24 we forwarded to you for signature, the original and five copies of a proposed contract for exploration of the Knight No.2 Mine.

Todate we have not received the signed copies, nor have the unsigned copies of the contract been returned.

If you do not approve of any part of the contract please return all copies unsigned, with any comments or suggestions you wish to present for our consideration. If you intend to proceed with the exploration, please sign and return all copies of the contract except the Operator's Copy as soon as possible.

Very truly yours,

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

VJL/zm

cc;
Lynch
Files
Opr. Com.-2

May 22, 1957

Telephone conversation

Robert A. Laurence, Knoxville, Tennessee

Washington Office: Mr. L. G. Houk
Mr. W. C. Anderson

Docket No. DMEA-4615-Mica
Ralph Burdette
Knight #2 Mine
Greenville County, S. C.

Contract has been forwarded to the applicant but executed contract has not been received. Victor Lynch wrote the applicant May 21st asking that the executed contract be returned.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/15	Anderson	600
4/15	Houk	600
4-18	Chapman	800
4/19	Selfridge	130
"	Lehman	110
"	Mattendorf	100
6/22	C	220
		600

600

APR 22 1957
22

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

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Dear Mr. Laurence:

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

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

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

Copies of memoranda dated March 15, 1957, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, relating to the project are enclosed.

Approved:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures 12
WCAnderson:gad 4/15/57

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

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/16	Selfridge	120
"	Johnson	110
"	Mittendorf	100
		225

APR 16 1957

T E L E T Y P E

XXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXX

Department of the Interior
Defense Minerals Exploration
Administration
14X4401(01) Revolving Fund,
Defense Production Act,
Interior, (Transfer to Office of
Secretary)

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

PROPOSED CONTRACT FOR DOCKET NUMBER DMEA 4615, RALPH BURDETTE, INADVERTENTLY MAILED YOU PRIOR TO REVIEW AND EXECUTION. PLEASE RETURN ALL COPIES.

George C. Selfridge (for)

GEORGE C. SELFRIDGE
CHAIRMAN, OPERATING COMMITTEE

GCSelfridge/esf
4/16/57
Copy to: Admr. R. File
Operating Committee
Mr. Houk
Mr. Selfridge

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/11	Selfridge	120
"	[illegible]	110
"	Mittendorf	100
		230

600

APR 11 1957

Hon. Robert T. Ashmore
House of Representatives
Washington 25, D.C.

Re: Docket No. DMEA-4615 - Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Dear Mr. Ashmore:

Reference is made to your letter of April 9, 1957, inquiring about the status of the application for exploration assistance by Mr. Ralph Burdette, Simpsonville, South Carolina.

Mr. Robert A. Laurence, Executive Officer, Field Team Region V, Knoxville, Tennessee, has supplied the additional information requested by this office, and the application is now being processed as expeditiously as possible by the Washington staff. Mr. Burdette will be immediately advised as soon as a decision is reached.

Sincerely yours,

E. O. Mittendorf
(for esf)
Administrator

LGHouk:gad 4/10/57
Rewritten - GCSelfridge/esf 4/11/57
Copy to: Admr. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Selfridge

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/10	Houk	600
		720
		100
		200
		220

600

Hon. Robert T. Ashmore
House of Representatives
Washington 25, D. C.

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2 Mine
Greenville County, South Carolina

Dear Mr. Ashmore:

Reference is made to your letter of April 9, 1957, inquiring about the status of the application for exploration assistance for Mr. Ralph Burdette of Simpsonville, South Carolina.

The Executive Officer, Field Team Region V, Mr. Robert A. Laurence, Knoxville, Tennessee, has supplied the additional information requested by this office, and the application is now being processed by the Washington staff.

Be assured that the application will be processed as rapidly as possible and Mr. Burdette will be advised of our decision.

Sincerely yours,

Administrator

LGHouk:gad 4/10/57
Copy to: Admr. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

ROBERT T. ASHMORE
4TH DISTRICT, SOUTH CAROLINA

COMMITTEES:
JUDICIARY
HOUSE ADMINISTRATION

Congress of the United States
House of Representatives
Washington, D. C.

RHODA McCARRELL
SECRETARY

WASHINGTON TELEPHONE:
NATIONAL 8-3120

GREENVILLE TELEPHONE:
2-1141

Dmea - 4615

April 9, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 10 1957

DATE	INITIALS	CODE
		600

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

Dear Sir:

The field office of your Administration in Knoxville, Tennessee has just informed me their examination report on the application filed by Mr. Ralph Burdette of Simpsonville, South Carolina for financial assistance in the exploration of mica mining in the vicinity of Mauldin and Simpsonville, South Carolina has been forwarded to your office, recommending approval. I should appreciate your advising me the present status of Mr. Burdette's application in order that I may advise my constituent who has made inquiry on this application.

Sincerely yours,

Robert T. Ashmore

Robert T. Ashmore

RTA:mw

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/10	Houk	600
4/10	Selfridge	130
"	Johnson	110
"	Chatkewsky	100
4/12	C	220
		600

600

APR 11 1957

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

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Dear Mr. Laurence:

Reference is made to your letter of April 4, 1957, to Honorable Robert T. Ashmore, particularly the last six words in the last sentence in paragraph three, "...complete the preparation of the contract."

The implication that a contract is to be prepared should be avoided at all times. The use of the term, "...for further processing of the application" should be used instead.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Approved:

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

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

LGHouk:gad 4/10/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

P.S. Please refer to the Special Notice on Commitments in Operating Committee Minutes No. 74, dated June 4, 1952.

8623

EXTRA COPY DMEA RECEIVED		
DATE	INITIALS	CODE

April 4, 1957

Hon. Robert T. Ashmore
House of Representatives
Washington, D. C.

Re: DMEA-1615 (Misc)
Ralph Burdette, Simpsonville, S.C.
Knight No. 2 Mine
Greenville County, South Carolina

My dear Mr. Ashmore:

Reference is made to your letter of April 1 inquiring about Mr. Ralph Burdette's application.

Our field examination report was sent to the Washington office, recommending approval, and it is my understanding that a contract is in preparation there.

Because Mr. Burdette's map lacked certain necessary data, it was necessary for the Washington office to write to me on March 27 for this information. The data were sent on March 29 so that they could complete the preparation of the contract.

The field offices do not have the authority to approve or deny an application or to prepare a contract. Therefore any further inquiry concerning the status of the application should be directed to the Washington office of DMEA.

Sincerely yours,

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

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

ROBERT T. ASHMORE
DISTRICT, SOUTH CAROLINA

COMMITTEES:
JUDICIARY
HOUSE ADMINISTRATION

Congress of the United States
House of Representatives
Washington, D. C.

RHODA McCARRELL
SECRETARY

WASHINGTON TELEPHONE:
NAtional 8-3120

GREENVILLE TELEPHONE:
2-1141

April 1, 1957

Director, Regional Office
Defense Mineral Exploration Administration
Department of the Interior
Knoxville, Tennessee

DMEA 4615 (Mica)

EXTRA COPY
DMEA
RECEIVEL APR 8 1957

DATE	INITIALS	CODE

Dear Sir:

An inquiry has been received in my office concerning the status of the application made by Mr. Ralph Burdette, Simpsonville, South Carolina for financial assistance in the exploration of mica mining in the vicinity of Mauldin and Simpsonville, South Carolina. I have been advised by the DMEA office in this city that Mr. Burdette's application is now being processed by your office. When a decision is rendered on Mr. Burdette's application, I should appreciate your advising me of the action taken.

Sincerely yours,

Robert T. Ashmore

Robert T. Ashmore

RTA:mw

RECEIVED
APR 4 1957
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

April 4, 1957

Mr. Robert A. Laurence telephoning Mr. L. G. Houk from Knoxville, Tenn.

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Mr. Laurence had a letter from Congressman Ashmore, and the case was discussed, particularly the elimination of the drilling. Mr. Laurence was of the opinion that it would take considerable time to get three bids and that he is willing to eliminate the drilling if the contract is written loosely enough so that the shaft could be vertical or inclined and provide for drifting and/or crosscutting.

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 2 1957

DATE	INITIALS	CODE
4/2	C	220
	H	600

March 29, 1957

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4615 (Mica) Ralph Burdette, Simpsonville, S. C.
Knight No. 2 Prospect, Greenville County, S. C.

Reference is made to your letter of March 27.

We do not think the shaft site can be properly located without the drilling proposed in the Field Examination Report. Your letter says "The cross-section in the Field Examination Report suggests this plan." This implies a greater degree of accuracy for the section than is warranted. The section, as explained in the third paragraph of the "Geology" section, shows at least three different interpretations based on the available evidence. To eliminate two of these and assure proper location of the shaft, the drill holes were proposed as being preferable to bulldozing. We agreed with this suggestion, and after review of the report and further discussion with the examiners, we are of the same opinion.

The unit of length in the land description is the chain. However, there appears to be some discrepancy in the position of the shaft. The examiners report that the shaft is at least 100 feet east of the road, but 429 feet in a N80W direction, at the scale of the sketch, should put the shaft a short distance west of the road (that is, if the unit is a chain of 66 feet).

The sketch is enclosed herewith.

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

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

RAL/as
cc
Opr. Com. 2
Lynch
Shirley
Files

April 1, 1957

Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Congressman Ashmore's secretary, Miss Waddell, telephoned Mr. Mittendorf regarding above docket. Mr. L. G. Houk called Miss Waddell back and explained to her that we are awaiting information from the field on the unit of length in the legal description of the land.

Note: The Field Team recommended a project for $6,251.00. The preliminary stage to be four 50 foot churn drill holes. Inasmuch as we do not think that churn drilling will be effective we asked them to comment on elimination of the drilling.

LGH

L. G. Houk, Chief
Nonmetallic Minerals Division

Copy to: Mr. Mittendorf
Files

Laurence Called -
Bids would delay.
Loose contract (without or with limits)
(Accounting & drafting)

Laurence agrees.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/25	Adam	600
3/26	Hough	600
3/27	Selfridge	130
"	Johnson	110
"	Patterson	100
3/28	C	220
		600

600

MAR 27 1957

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

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Dear Mr. Laurence:

Reference is made to the Field Examination Report of February 21, 1957, on the subject property, recommending an exploration project.

After careful study of the report and the data furnished by the applicant, we are of the opinion that enough information is at hand to justify an exploration project consisting of shaft sinking and drifting without the preliminary expense of either bulldozing or churn drilling. The cross-section in the Field Examination Report suggests this plan.

Please note in the land description that the unit of length is omitted. We are assuming that chains are intended. The plotting of the land with this assumption is shown on the enclosed sketch. Please check and advise whether correct, and return the sketch.

We will appreciate having your comments on our analysis of this docket.

Sincerely yours,

Approved:

Frank D. Lamb (2/B)
Member, Bureau of Mines

Thor H. Kiilsgaard (2/B)
Member, Geological Survey

George C. Selfridge
Chairman, Operating Committee (2/B)

Enclosure

WCAnderson:gad 3/25/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

IN REPLY REFER TO:

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

ORIGINAL FILE COPY
DMEA
RECEIVED MAR 18 1957

DATE	INITIALS	CODE
3/18	C	220
3/19	wra	000
	✓	

March 15, 1957

Re: DMEA 4615
Ralph Burdette
Knight No. 2 Mine
Greenville Co. S. C.
Appl. Est. $6,050.00
Rec'd " 6,251.00
Mica

Memorandum

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

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

Subject: Review of Field Team Report.

The applicant requested assistance in exploring a newly discovered pegmatite, which by preliminary bulldozing, has been shown to have a mica-bearing potential.

In the opinion of the examiners the results of bulldozing and the general environment bespeak a likely prospect. As little is known as to the altitude of the pegmatite, which is exposed in a flat cotton field, the examiners recommend non core drilling to determine the strike, dip etc., after which exploratory work, consisting of shaft sinking and drifting will be done.

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

N. E. Nelson

N. E. Nelson

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 18 1957

DATE	INITIALS	CODE
3/18	C	220
3/19	Anderson	600
March 15, 1957		

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA - 4615 (mica)

Applicant: Ralph Burdette

Name and Location of Property: Knight No. 2 Mine
Greenville County, N. C.

Date of Field Team Report: February 21, 1957

Date Rec'd. by Br. of Ceramic and Fertilizer Materials: March 12, 1957

Field Team Recommendation: Recommend approval of a program as outlined in field examiner's report.

Comments:

1. This is a new prospect from which applicant has recovered approximately 2,000 pounds of mine-run block mica during initial bulldozer exploration work, 61 pounds of sheet muscovite was recovered from this mine-run mica.

2. The pegmatite apparently lies outside the main mica-producing districts and may be a newly discovered deposit.

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

Recommendation:

I concur with the recommendation of the field team for approval of an exploration project as outlined in the field examiner's report.

W. F. Dietrich

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1, POST OFFICE BLDG.
KNOXVILLE 2, TENNESSEE

3-7	C	220
3/12	C	130
[redacted]	K	220
		600

March 6, 1957

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report, DMEA-4615, (mica)
Ralph Burdette, Simpsonville, Sou. Carolina
Knight No.2 Mine, Greenville County, S. C.

Enclosed are four copies of the subject examination report, and nine extra copies of the map.

This deposit appears to be a promising one for strategic mica, and we agree with the examiners' recommendation for approval. This pegmatite lies outside the main mica-producing districts and is apparently a newly-discovered deposit.

Because of the uncertain structural relations of the pegmatite, the small amount of drilling proposed in the report seems highly desirable. This conclusion was reached during the report preparation, and therefore the Applicant has not been advised of it.

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

Reviewed by
DMEA OPERATING COMMITTEE
3-11-57
(date)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 7 1957

DATE	INITIALS	CODE
		130
		220
3/13		600

On-Site Exam Rpt.

FIELD EXAMINATION REPORT

On

DMEA-4615 (mica) KNIGHT No.2 MINE
Greenville County, S. C.

By

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

and

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

February 21, 1957

Reviewed by
DMEA OPERATING COMMITTEE
3-11-57
(date)

FIELD EXAMINATION REPORT
On

DMEA-4615,(mica) KNIGHT No.2 MINE
Greenville County, South Carolina

Applicant: Ralph Burdette, P.O. Box 247, Simpsonville, S. C.

Summary

A bulbous discordant pod-like pegmatite has been intermittently exposed by the applicant in a shallow, bowl-like bulldozer excavation for about 60 feet along strike and 30 feet across at its widest part. The structure is mica-rich and exhibits an excellent mineralogic and textural environment for the occurence of strategic muscovite. Approximately 2000 pounds of mine-run block was recovered from the bulldozing, out of which about 1300 pounds of hand cobbed muscovite was sheeted for a final recovery of slightly over 61 pounds of sheet muscovite. At least 150 pounds of good quality block muscovite was observed strewn over the surface of the excavation. It is recommended that DMEA assistance be granted to explore the downdip or plunge extensions of the exposed pegmatite.

Introduction

Location:

The prospect is located about 100 feet southeast of the Harrison Bridge road, 5.45 airline miles S 74 1/2° W from the intersection of US Highway 276 and State Route 417 in the center of Simpsonville, Greenville County, South Carolina.

Examination:

The Examiners inspected the subject property February 21, 1957, in company with the applicant, Mr. Ralph Burdette. About two hours were spent at the prospect site.

As far as could be determined, there have been no previous prospecting or exploration efforts on the subject pegmatite. The Applicant has bulldozed a semicircular 120 x 140 foot bowl-shaped depression to a depth of about 10 feet beneath the surface of the ground. The dump rises from 3 to 8 feet above the surface around the rim of the cut. The center of the cut is about 110 feet southeast of the paved Harrison Bridge road and within 90 feet of a 3-phase 220 volt power line and pole. Excavation work has been conducted on flat open cotton field,

within about 155 feet of a small tenant house on the Knight estate. The only equipment present at the cut was a D-8 Caterpillar tractor. No buildings except the tenant house are at the site.

Geology

In the center of the bowl-shaped depression is exposed a northeast-southwest trending discordant pegmatite. It is a thick lenticular or pod-shaped structure trending roughly N 20° E whose margins dip in opposite directions. Only one contact is well enough exposed to measure the dip (see map). Pegmatite is intermittently exposed for about 60 feet along strike and about 30 feet across its widest section, thinning to about 5 feet thick at the southwest end of the exposure. It is discordantly emplaced in a sillimanite-mica schist with some garnetiferous layers ~~and~~ which has an attitude of N 28° - 48°E 60°- 85° SE to 60°-65°NW (see map).

Pegmatite is composed of badly weathered plagioclase, disseminated quartz, and muscovite. Muscovite occupies 5 to 10 percent by volume of pegmatite and is ruby-colored, hard, flat to flat-A and essentially free from mineral intergrowths. Most of the muscovite is free-splitting, but about 1/3 of it appears to be somewhat tied or locky. The applicant has recovered a total of about 2000 pounds of block from the bulldozing, about 1300 lbs. of this amount was worked or sheeted with a recovery of about 61 pounds of sheet muscovite. This is an indicated recovery of 4.7% from the hand cobbed block. A settlement from the sale of this mica has not been received by the applicant.

The applicant's proposal to bulldoze, sink shaft and drift with the pegmatite is somewhat indefinite, since mapping of the existing exposure has raised some question as to the inclination and plunge of what appears to be a discordant pod-like structure. Possibilities exist for a wide range of dip orientations from 60° NW to an unknown dip to the southeast. There is no evidence to indicate the direction or inclination of the plunge of the strike length extremities. A shaft sunk without some knowledge of the above conditions, is very likely to encounter conditions which would make the work difficult, overly expensive, or impossible. Because of the existing uncertainties, the examiners recommend churn-drilling five 50-foot deep holes, ~~one~~ hole 15 feet southeast of the southeast margin of the pegmatite, one hole in the center of the exposure, one hole 15 feet northwest of the northwest margin of the pegmatite, and one hole 20 feet beyond the last exposure at each strike length extremity (see map). On the basis of the information gained by this preliminary

drilling, it should be possible to orient the underground work with a minimum of expense and to the best exploration advantage. Churn drilling is suggested since well drillers are locally available and for the small amount of footage recommended would be by far the most inexpensive method of drilling. The driller should be requested to save and bag the cuttings recovered from each 5-foot interval for inspection by the Field Examiners. At the time of examination, the possibility of preliminary drilling was not discussed with the applicant so that he should be contacted, advised of the recommendations and requested to secure bids. A total of 250 feet of churn drilling is suggested which should not run more than about 2.50 per foot. This is recommended in place of the applicant's proposed bulldozing which would not add materially to the existing information and would only add to an already good-size catchment basin for the accumulation of surface runoff.

Conclusions and Recommendations

The Applicant has exposed a large pod-like pegmatite with excellent indicated potential for the occurence of strategic muscovite. Some very good quality muscovite has been recovered from the preliminary bulldozing. Because of uncertainties as to the structural orientation of the pegmatite, the Examiners recommend 5 preliminary churn drill holes aggregating 250 feet. At a point determined from the results of the drilling, the examiners recommend sinking 60 feet of shaft and drifting and/or crosscutting for a distance of 80 feet in the subject pegmatite.

Estimated Costs:

Churn Drilling - Drill 5 churn drill holes each about 50 feet deep, total not to exceed 250 feet. Holes to be locatedby the Field Examiners.

Estimated cost of drilling the 5 holes

250 feet @ $2.50/ft	$625.00

Construct:

Toolhouse	$75.00
Powder Magazine	25.00
Exploder Magazine	15.00

Sink 60 feet of timbered two-compartment shaft 5' x 7' in crosssection with separated manway (40 shifts):

use 1.7 ft/shift = 36 shifts

Labor:

1 - Foreman-Miner @ $1.75/hr.	$560.00	504.00
1 - Hoistman @ $1.50/hr.	480.00	432.00
1 - Laborer @ $1.00/hr.	320.00	288.00
	1360	1224.00

Equipment Rental:

1 - Air Compressor @ $150/Mo.	300.00	250/mo
1 - Hoist-single drum @ $50/Mo.	100.00	
1 - Rock drill w/air hose @$40/Mo	80.00	
1 - Sump Pump @ $45/Mo.	90.00	450.00
	570.00	

Supplies:

Gasoline and Oil	120.00
Explosives	175.00
Drill steel	110.00
Timber, 3000 b.f. @ $65/M	195.00
Small tools, Pipe, etc.	120.00
Sales Tax	21.00
Liability Ins & Soc. Sec.	102.00
	843.00

($46.21/ft) Estimated cost of shaft sinking $2,773.00

use $44.00/ft. $2,517.00

Drive 80 feet of 5' x 7' drift, timbered where necessary (40 shifts)

use 2.2 ft/sh = 36 shifts

Labor:

1 - Foreman-Miner @ $1.75/hr	$560.00	504.00
1 - Hoistman @ $1.50/hr.	480.00	432.00
1 - Laborer @ $1.00/hr	320.00	288.00
	1360.00	1224.00

Equipment (rental)

1 - Air compressor @ $150/Mo.	300.00	
1 - Hoist (gasoline -single drum) @ $50/Mo.	100.00	500.00
Drill w/hose @ $40/Mo.	80.00	
Sump Pump @ $45/Mo	90.00	
Jackleg @ $25.Mo.	50.00	
	670.00	

$275/mo

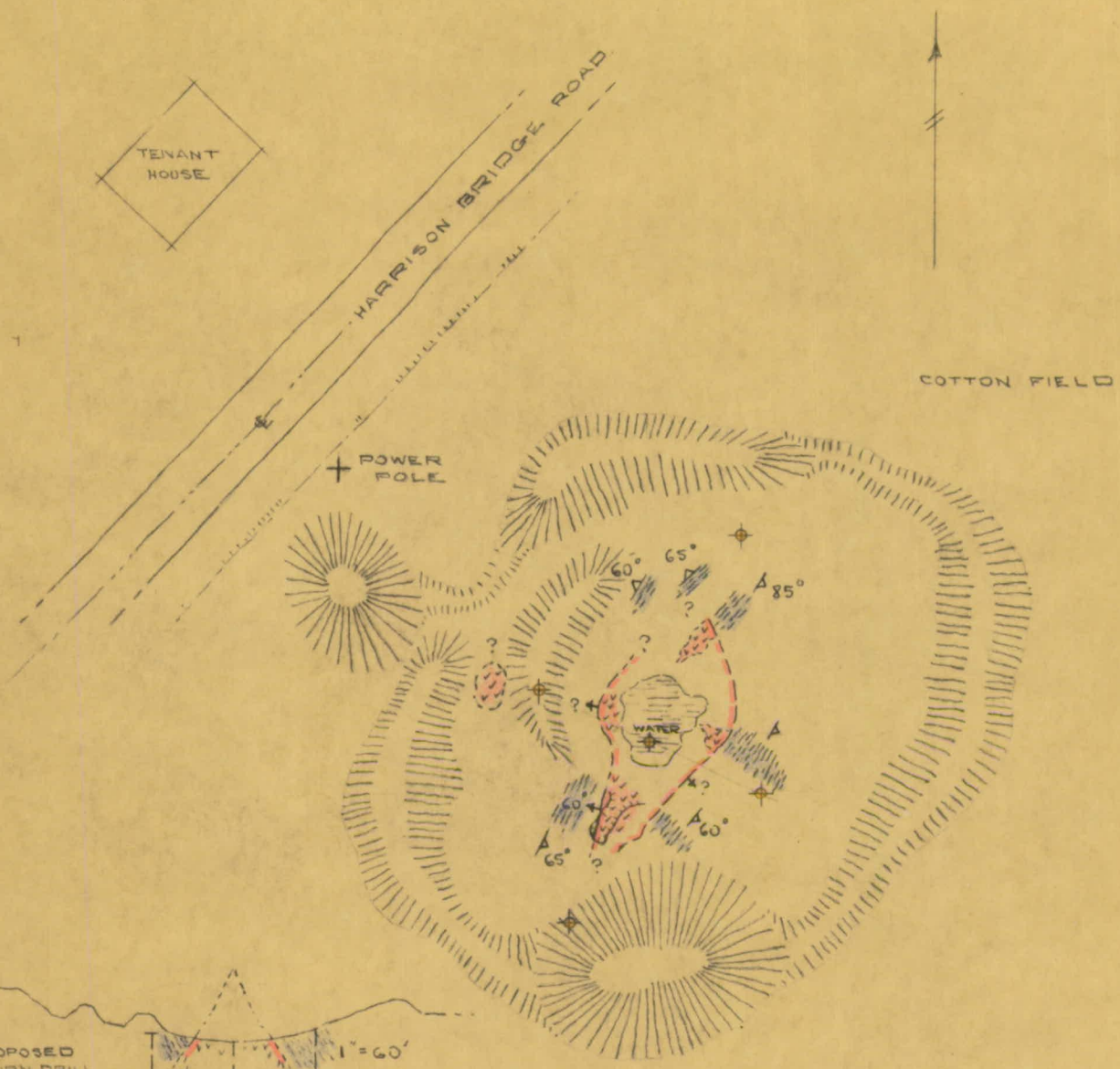
Supplies:

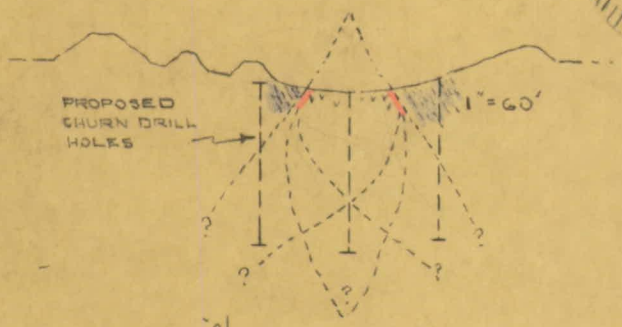
Small tools, etc.	92.00
Gasoline and oil	140.00
Explosives	220.00
Drill steel	120.00
Timber, 1000 b.f. @ $65/M	65.00
Sales Tax and Socl Sec. & Ins	121.00
Estimated cost of drifting.....	$2,738.00
Total estimated cost of the project	666.00
	$6,251.00

$2482 use $33/ft.

34.

S. C. Bergman & E. L. Boudette, Geologists L. E. Shirley, Ming. Engr.



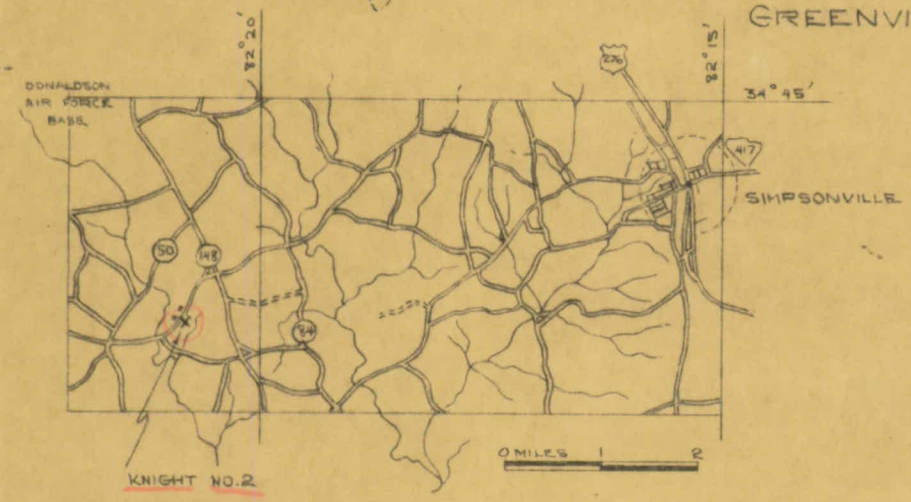


KNIGHT NO. 2 MINE

GREENVILLE COUNTY, SOUTH CAROLINA

DMEA - 4615 (MICA)

SCALE: 1" = 40'



LEGEND

- MICA-BEARING PEGMATITE
- SILLIMANITE-MICA SCHIST
- EXCAVATION DUMP
- WATER
- PROPOSED CHURN DRILL HOLE

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2-5	Anderson	600
2-5	Houk	600
2/6	Selfridge	130
"	Johnson	110
"	Whitenburg	100
2/8	C	220

600

600

FEB 7 1957

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

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Dear Mr. Laurence:

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

Copies of memoranda dated January 29 and 31, 1957, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Approved:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

Enclosures 5

WCAnderson:gad 2/5/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2-5	Anderson	600
2/6	Houk	600
2/6	Selfridge	130
"	Johnson	110
"	Chatterton	100
		220

600

FEB 7 1957

Mr. Ralph Burdette
P. O. Box 247
Simpsonville, South Carolina

Re: Docket No. DMEA-4615-Mica
Ralph Burdette
Knight No. 2
Greenville County, South Carolina

Kamb
Kilsgaard

Dear Mr. Burdette:

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,

D. O. Mi[illegible]

Administrator

WCAnderson:gad 2/5/57
Copy to: Admr. R. File
Field Team, Region V
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.C.S.

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 1 1957

DATE	INITIALS	CODE
2/1	C	220
2/1	WJA	600
January 31, 1957		

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4615 (mica)

Applicant: Ralph Burdette

Name and Location of Property: Knight No. 2 Mine, Greenville County, South Carolina

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 1/25/57

Comments:

1. Applicant states that he has opened up a mica-bearing formation with a bulldozed cut 10 feet deep.
2. Applicant states that he has recovered 2,000 pounds of mica and that from 1,400 pounds processed he has produced 61 pounds of strategic mica.
3. Exploration proposed by applicant is consistent with local practices and in line with unit-cost estimates for other DMEA projects.
4. This deposit appears to have possibilities for the development of strategic mica.

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

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 31 1957
REPLY REFER TO:

DATE	INITIALS	CODE
1-31	C	220
2-1	wra	600

January 29, 1957

Re: DMEA 4615
Ralpy Burdette
Knight No. 2 Mine
Greenville Co., S. C.
$6,050.00 - Mica

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in bulldozing, shaft sinking and drifting on a pegmatite which has been uncovered by bulldozing.

About 2000 pounds of mica was recovered from the bulldozing already done, of which 1400 pounds has been processed and 61 pounds of acceptable strategic mica produced.

An examination appears to be warranted, therefore, I recommend that the application be referred to the Field Team.

N. E. Nelson

N. E. Nelson

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

January 25, 1957

Subject: DMEA-1615

Mr. Ralph Burdette
P. O. Box 247
Simpsonville, S. C.

Dear Mr. Burdette

Your application for exploration assistance, dated January 21, 1957 submitted to our office at Knoxville, has been assigned Docket Number DMEA-1615 and referred to the Nonmetallic Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

(Sgd) Allen S. Dakan

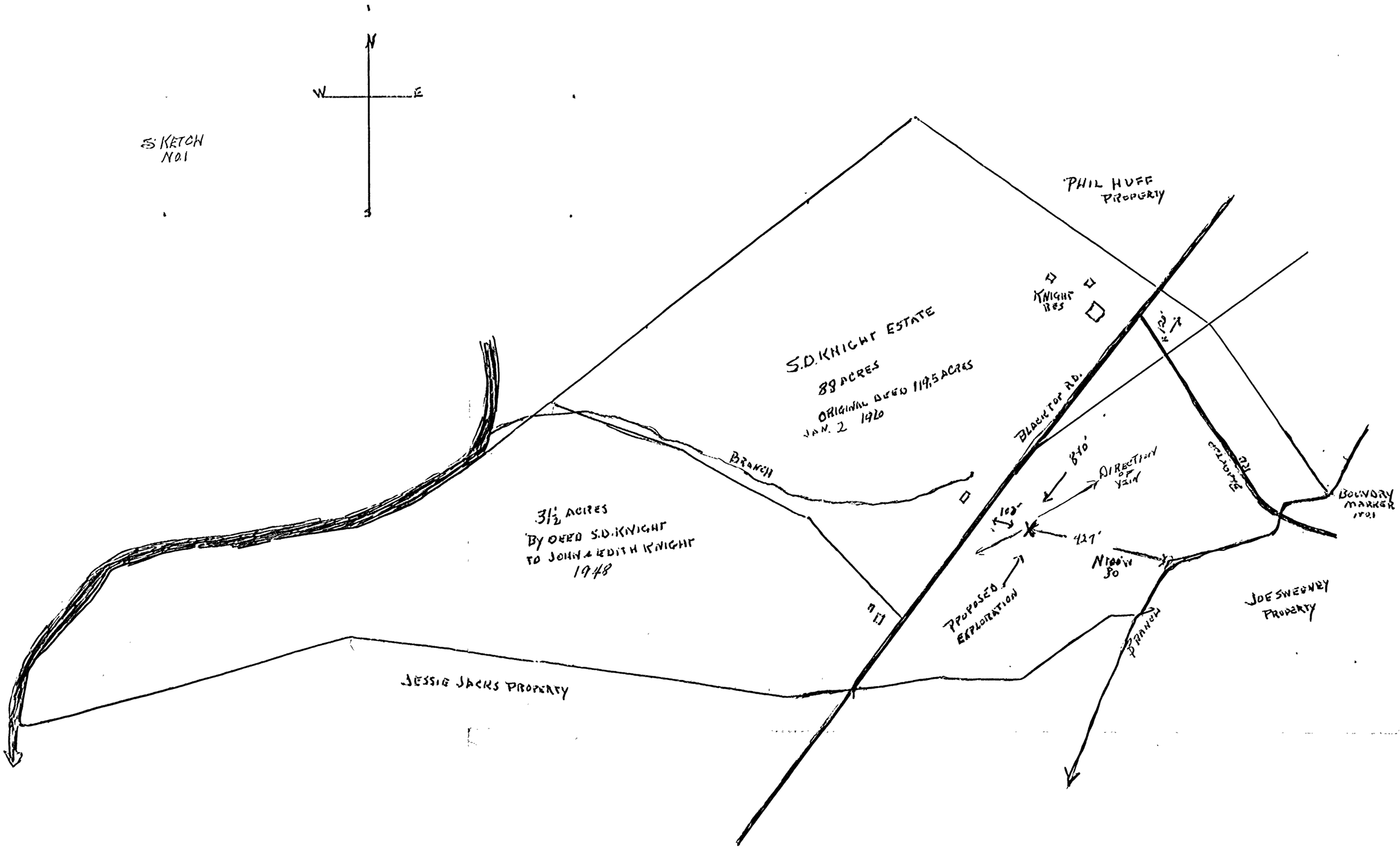
Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region V. Knoxville, Tennessee

Code 600

6816


SKETCH NO1
N
W
E
S
PHIL HUFF PROPERTY
KNIGHT RES
S.D. KNIGHT ESTATE
88 ACRES
ORIGINAL DEED 119.5 ACRES
JAN. 2 1920
BLACKTOP RD.
BRANCH
3½ ACRES
BY DEED S.D. KNIGHT
TO JOHN & EDITH KNIGHT
1948
840'
DIRECTION OF VEIN
100'
427'
N 60° W
PROPOSED EXPLORATION
BOUNDARY MARKER IRON
JOE SWEENEY PROPERTY
BRANCH
JESSIE JACKS PROPERTY