☐ Audited

☐ Certified

Name Joe Vance

State North Carolina

WO ANALYSIS SHEET - DMEA PROJECT

Analysis as of Nov.

Incl. Voucher for Oct

Commodity Mica

☐ Actual Cost

☑ Agreed Unit Costs

Docket No. 3811

Idm-E No. 833

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	50	1750.00	50	1750.00	1750.00
Raising					
Shafts	40	1400.00	30	1050.00	1050.00
Winzes					
Drilling (Specify)					
Surface Excavation					
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		3264		2914.00	2914.00

Prepared by James Hopkins

71626

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Joe C. Vance

Plumtree, North Carolina

pertaining to Exploration Project Contract No. Idm-2833, Docket No. DMEA-3811, for the months of July 1955 to October 1955, inclusive, covering a project for the exploration of mica on property, known as the Crab Orchard Prospect, located in Avery County, North Carolina.

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

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

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

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

Total cost as billed by Contractor		$2,914.00
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$2,914.00

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

$2,185.50

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

E. D. Talbert

E. D. Talbert, Auditor

November 22, 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 23 FEDERAL BLDG.
KNOXVILLE 2, TENN.

RECEIVED
JUL 20 1955

July 18, 1955

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Signed Contract - DMEA-3811, Idm-E833 (mica) Joe C. Vance, Plumtree, N. C., Crab Orchard Mine, Avery County, N. C.

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

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

V. J. Lynch, Member
Bureau of Mines

ZM.
cc:
Finance Office
Lynch
Shirley
Files

RECEIVED

Division copy JUL 29 1955

MF-200A
(Revised June 1954)

Docket No. DMEA 3311

Commodity Mica

Contract No. Idm-E 833

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

It is agreed this 30th day of June, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Joe E. Vance, whose mailing address is Plumtree, North Carolina, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and map.

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

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

(b) The Operator represents and undertakes that:

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

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: None

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

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

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of mica. The work to be performed is described in Exhibit "A." The Operator on or before August 22, 1955 shall commence the work, and on or before December 31, 1955 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

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

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

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $3,264.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $2,448.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

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

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

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

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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

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

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

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

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

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

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

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

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

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

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

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

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

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

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

JOE C. VANCE

(Operator)

By Joe C. Vance

THE UNITED STATES OF AMERICA

By C. Mittenhorn

Administrator, Defense Minerals Exploration Administration

Publin

Hopkins

Hoch

Chamberlin

Dutch

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]

Selfridge

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

EXPLORATION PROJECT CONTRACT
JOE C. VANCE
DOCKET NO. DMEA-3811

RECEIVED
JUL 2

ANNEX I

The land referred to in Article 2 of the contract form is as follows:

A Mine known as the Crab Orchard Mine situated in the Crab Orchard Tract of Land about 1/4 mile north of Plumtree, N. C. on west side of Toe River. The said Crab Orchard Mine is located in the piece of land known as the Orchard Piece near the drainage Ditch carrying water from the Birch Spring, in plot of land described by the following: Beginning at a Birch Tree at The Birch Spring and running south 875 Feet to an Apple Tree in the Orchard Piece, thence east 750 Feet to a Locust Tree, thence north 890 feet to a Poplar Tree near mouth of Ditch, thence west 725 feet to the beginning.

EXPLORATION PROJECT CONTRACT
JOE C. VANCE
DOCKET NO. DMEA-3811

EXHIBIT "A"

Description of the Work

The location of the work is shown, in part, on the map entitled "Sketch of the Crab Orchard Pros. Avery Co., N. C. DMEA-3811 June 1, 1955," attached hereto and made a part hereof. The work consists of the following:

1. Construct:

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

(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 2½ feet.

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

The toolhouse may be unfloored; shall have protective roof covering; and shall be equipped with lock and key.

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

2. Sink a 40-foot, 2-compartment timbered shaft, having minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

3. At a point 5 feet above the bottom of the shaft, drive 50 feet of drifts on the pegmatite having minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

All work shall be timbered as necessary.

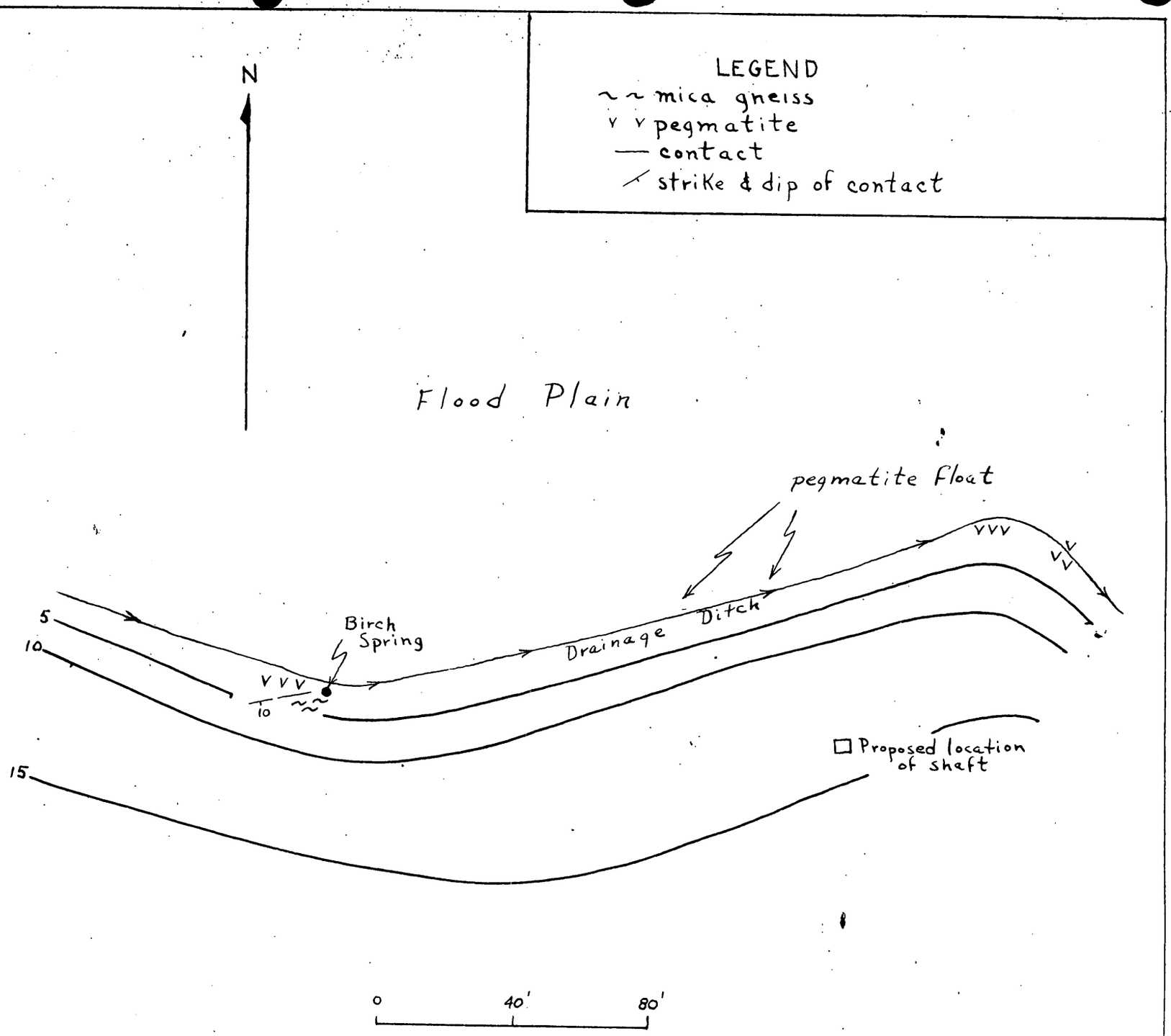
The location, inclination, direction, and extent of all work are subject to approval of the Government.

Fixed Unit Costs

(The unit costs include all costs whatsoever necessary to complete the work.)

Construct:		
Toolhouse 1/	$ 75.00	
Powder magazine 1/	25.00	
Exploder magazine 1/	14.00	
Sink 40 feet of shaft @ $35.00/ft.	1,400.00	
Drive 50 feet of drifts @ $35.00/ft.	1,750.00	
Estimated Total Cost of Project		$3,264.00
Government Participation @ 75%		$2,448.00

1/ The completed work constitutes the unit.



SKETCH OF

CRAB ORCHARD PROS.

AVERY CO., N.C.

DMEA-3811

June 1, 1955

MF-203
Revised March 24, 1955

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

RECEIVED
JUL 20 1955

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of [redacted], State of [redacted], described [redacted]/ [redacted]

[redacted]

[redacted],

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

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

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

[redacted]

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

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

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

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

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

5. Added provision: _____

Dated this 2 day of June, 1957.

W W Avery Heirs [Seal]

Burne Vance, Agent [Seal]

_____ [Seal]

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

_____

[Corporate Seal]

Mr. Joe C. Vance

Plumtree, North Carolina

Re: Docket No. [illegible]-9811-nlcm
Joe C. Vance
Crab Orchard Mine
Avery County, North Carolina
Contract No. Idm-8373

Dear Mr. Vance:

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 DMA exploration program and participation therein are fully appreciated.

Sincerely yours,

G. O. Mittendorf

Administrator

JHopkins:ms 9/21/56
Copy to: Docket
Mr. Chambers
Field Team, Region V
Mr. Killsgaard, 5222
Mr. Dietrich, 9061
Mr. Houk
Admr. R. File
Buena Vance, Agent for W. W. Avery Heirs.....landowners....copy to Field Team for forwarding

Hopkins
Anderson

Project Summary Report

September 21, 1956

By: James Hopkins

1. Docket No. DMEA-3811-mica
   Joe C. Vance
   Crab Orchard Mine
   Avery County, North Carolina
   Contract No. Idm-E833

   Operator: Joe C. Vance
   Plumtree, North Carolina
   Operator's Property Rights:
   Lessee of Mineral Rights on land owned by W. W. Avery Heirs, - Buena Vance, Agent.

2. Contract: dated June 30, 1955

   (a) Work authorized:

Construction - buildings	$ 114.00
Shaft Sinking 40 ft. @ $35.00/ft.	1,400.00
Drifting 50 feet @ $35.00/ft.	1,750.00
Estimated total cost	$3,264.00

   (b) Amendments:
   none

   (c) Work Completed:

Buildings - construction	$ 114.00
Shaft Sinking 30 ft. @ $35.00/ft.	1,050.00
Drifting 50 ft. @ $35.00/ft.	1,750.00
Total cost of project	$2,914.00

   Work began July 14, 1955.
   Work terminated (completed) October 20, 1955.
   Final Field Team report dated November 8, 1955.
   Operator's Interim reports accepted as Final.

3. Audit:
   Report of Review dated November 22, 1955.

Total Cost as billed by operator	$2,914.00
Exceptions	none
Total accepted cost	$2,914.00
Government participation	$2,185.50

4. Certification of Discovery - none issued

5. Comments:

Mica-bearing pegmatite had been uncovered by recent ditching. The mica was of excellent quality and pegmatitic material was uncovered for a distance in excess of 100 feet.

Geologic Premise upon which work was based:

Pegmatite at least 6 feet thick is conformable to mica gneiss.

Field Team reports mica as being abundant and occurs in sizes at least 6" in diameter. The mica is non-ruby in color, hard, flat, clear and free-splitting.

Geologic Criteria developed during the project:

Two essentially flat-lying pegmatites separated by 3 to 5 feet of biotite gneiss. Each is about 2' thick. The upper is zoned with 8" to 10" quartz core and all mica is scrap. The lower is zoned and contains mica that is flat and clear altho sizes are small.

The pegmatites thin to a feather edge in 10-foot drifts on the 30-foot level.

Future Possibilities:

No further work is warranted.

There were no reserves developed during the project and no sales of mica.

The project was conducted in a satisfactory manner.

Recommendations:

The Field Team recommends that no certification of discovery be issued.

The Nonmetallic Minerals Division and the Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the recommendation.

James Hopkins

JHopkins:ms 9/21/56
Copy to: Mr. Houk
Admr. R. File

IN REPLY REFER TO:

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

RECEIVED
MAR 12 1956

March 9, 1956

Re: DMEA 3811, Idm-2833
Joe C. Vance
Crab Orchard Mine
Avery Co., N. C.
$3,264.00 - Mica

Memorandum

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

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

Subject: Review of Final Field Team Report

The contract approved the expenditure of $3,264.00 and $2,914.00 was spent.

The work consisted of a 30-foot vertical shaft and 50 feet of level work from it in 3 headings. Because of a ditch, work could not be done on the outcropping pegmatite on which the application was based and it seems unlikely that either of the two pegmatites cut in the shaft are a part of the one that outcrops in the ditch. The two pegmatites pinch out in the three headings. The maximum thickness of the pegmatites noted is 2 feet.

All mica recovered is scrap, though books up to 8 inches across were seen.

The examiners conclude that additional work is not warranted and with the Field Team recommend that no certification be made.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-3/9/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061

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

RECEIVED
DEC - 1 1955

November 30, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3811 (mica)

Applicant: Joe C. Vance

Name and Location of Property: Crab Orchard Mine, Avery County, N. C.

Contract Number: Idm-B 833

Date of Field Team Report: 11/8/55

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 11/21/55

Field Team Recommendation: Recommend no certification of discovery.

Comments:

1. The two pegmatites intersected were thin, and did not contain workable quantities of mica.

2. Expenditures -

Total approved	$3,264.00
Total cost	2,914.00
Gov't. share of the cost	2,185.50
Value of production during operation	None

Recommendation: I concur with the field team recommendation of no certification of discovery.

Signed

W. F. Dietrich

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

November 14, 1955

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Final Report- DMEA-3811, Idm-E833 (mica) Joe C. Vance, Plumtree, N. C. Crab Orchard Mine, Avery County, N.C.

Enclosed are four copies of the subject report. We are accepting the Operator's narrative reports as meeting the requirements for a final report.

Certification is not recommended.

Robert A. Laurence

RAL/mm
cc:
Lynch
Shirley
Files

11/21/55

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NOV 1 6 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT
By
FIELD TEAM, REGION V

On

DMEA-3811, CRAB ORCHARD MINE (mica)
Avery County, N. C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey
and

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

November 8, 1955

11/21/55

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NOV 16 1955

FINAL REPORT
On
DMEA-3811, CRAB ORCHARD MINE
Idm-E833, (mica)

Operator: Joe C. Vance, Plumtree, North Carolina

Location: On the flood plain west of North Toe River, 3000 feet N. 24° W. of Plumtree, Avery County, N. C.

A 30-foot vertical shaft and 50 feet of level work was completed on the project. Two thin mica-poor pegmatites were explored, neither of which contain workable amounts of mica. Additional work is not recommended and no certification of discovery should be issued.

This project began July 14, 1955 and was completed October 20, 1955.

Work completed consisted of sinking a vertical shaft to a total depth of 30 feet and driving 50 feet of drift from this level. Two essentially flat-lying pegmatites separated by 3 to 5 feet of biotite gneiss were encountered in shaft sinking between the 18-foot level and the bottom. Both were of variable thickness and contain scattered mica, the lower body exhibiting the best quality mica. Drifts were driven as follows: N 40° E for 7 feet, N 80° E for 23 feet, turning to N 40° E at this point for 10 feet, and due south for 10 feet. The pegmatites thin to a feather edge in these distances, and drift work was stopped in each headings because of this condition. They appear to be pod-shaped and have been explored sufficiently; no additional exploration is warranted. In addition to shafting and drifting, a toolhouse, powder magazine, and cap magazine were built under contract. Ten feet of shaft was not used. Negligible production resulted from work completed, and that mica produced was of poor quality.

Each pegmatite has a maximum thickness of about two feet. The upper one has an 8 - 10 inch quartz core, with the remainder plagioclase rich pegmatite. "Wedge-A" mica occurs adjacent to the quartz core in sizes up to 8-inches across; however, all the mica is scrap.

The lower pegmatite is unzoned and contains much plagioclase, some quartz, small scattered muscovite, and small red garnet. The mica is flat and clear, but the sizes are too small.

Both pegmatites are in an essentially flat-lying mica gneiss. The pods appear to be elongated in an east-west direction and taper in all direction. The thin edges of both pegmatites are represented by quartz veins.

It appears that the pegmatite on which this application was based is also pod-like in shape. It is flat to low-dipping and probably does not extend down dip to the position of the 30-foot shaft. The quality and quantity of mica present in the two pegmatites explored suggest they are different from the one that outcrops. There is no apparent need for additional explorationat this place.

Expenditures:

(a)	Total approved	$3,264.00
(b)	Total cost of project	2,914.00
(c)	Government's share of cost	2,185.50
(d)	Government's share unexpended	262.50
(d)	Value of production during project	none

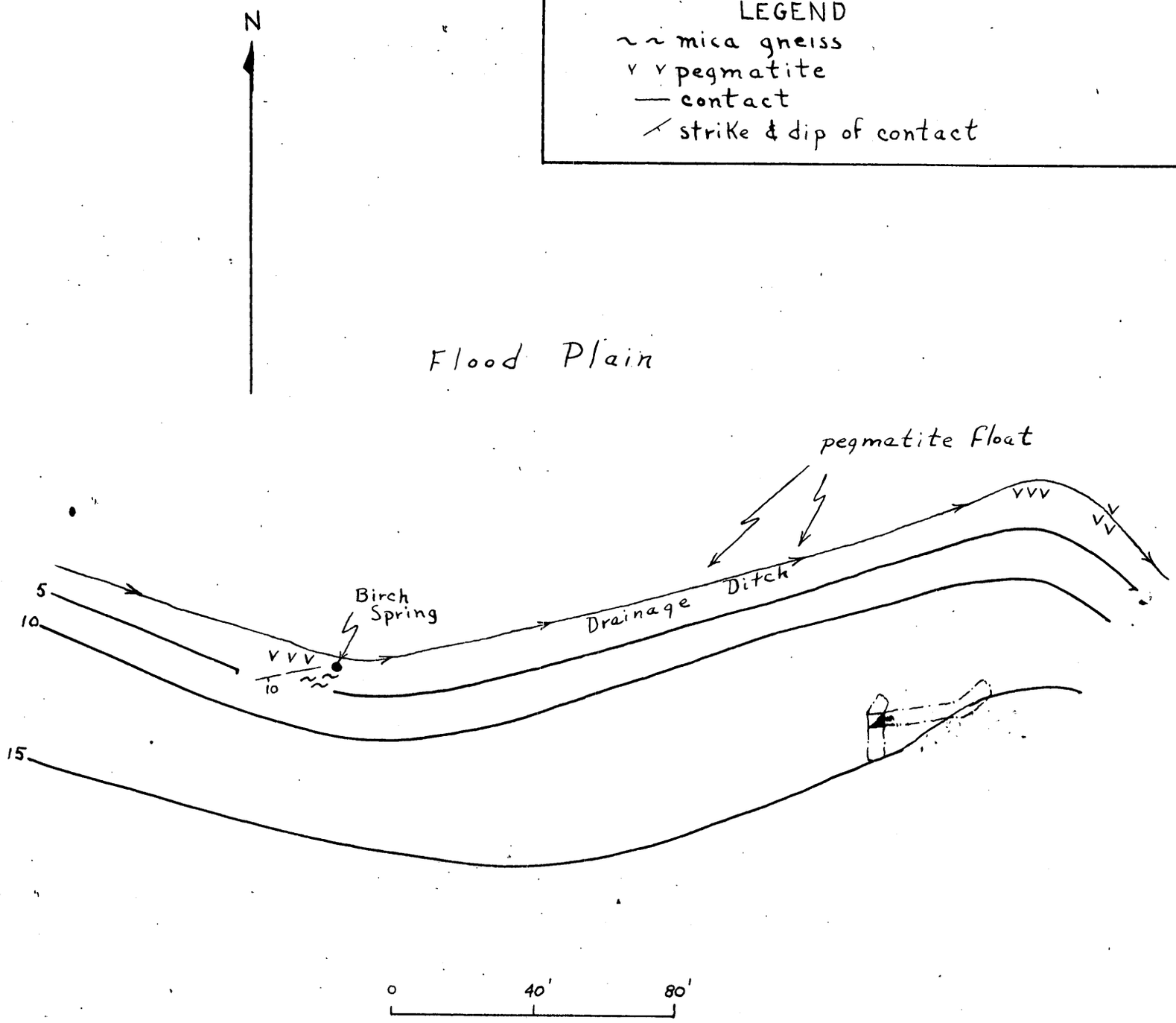
The project was conducted in a satisfactory manner. No equipment was purchased for the project.

November 8, 1955.

K. H. Teague, Geologist
U. S. Geological Survey

and

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



SKETCH OF

CRAB ORCHARD PROS.

AVERY CO., N.C.

DMEA-3811

Nov. 10, 1955

-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

RECEIVED NOV 10 1955

Month of October, 1955 Docket No. DMEA 3811 Contract No. Idm-E 833
Operator's Name JOE C. VANCE Minerals Mica
Address PINEBRIDGE, N. C.
Contract Amount, $3,264.00 Government Participation: 75 % Amount, $2,448.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting Feet	700.00	1050.00	1750.00			
Shaft Feet		1050.00	1050.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track Tool House		75.00	75.00			
Powder Magazine		25.00	25.00			
Exploder Magazine		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	700.00	2214.00	2914.00	700.00	2214.00	2914.00

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

Date 11-1-55 *Payee Joe C. Vance

Per Joe C. Vance 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:

$ 525.00

Signature Helen R. Meier
(Authorized Certifying Officer)

Date NOV 8 1955 Vou. No. 97
(See other side)

175.00

(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. 833 in accordance with the terms of the contract.

Signature Kepton H. Teague Title Geologist, U.S.G.S. Date NOV 7 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch ACTING Title EXECUTIVE OFFICER DMEA REGION V Date NOV 7 1955

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.

F-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV 10 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Oct. 1955 Docket No. DMEA 3811 Contract No. Idm-E 833
Operator's Name JOE C. VANCE Minerals MICA
Address PRINTREE, N. C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting Feet	Feet	700.00	20'	1750.00	50	1750.	50	1750.00
Crosscutting								
Raising								
Shafts	Feet			1050.00	30'	1050.	40	1400.00
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stripping~~ Tool House	1			75.00	1	75.	1	75.00
~~Trenching~~ Powder Mag.	1			25.00	1	25.	1	25.00
~~Test Pits~~ Exploder Mag.	1			14.00	1	14.	1	14.00
Roads and Trails								
Total Distributed Costs		700.00		$2914.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		700.00		$2914.00				

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 11-1-55 Operator Joe C. Vance

Per Joe C. Vance Title Operator

Remarks: Finished Exploration

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)

Kepton H. Teague, Geologist

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

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OPERATORS MONTHLY REPORT OF PROGRESS 1955

JOE C. VANCE
PLUMTREE, N. C.

DMEA 3811 MICA
CONTRACT NO. Idm-2 333

WORK ACCOMPLISHED MONTH OF OCTOBER WORK FINISHED OCT. 20, 1955

Oct. 3 - Pumped water, drilled and mucked, Shot.

" 4 - " " Mucked, extended track, drilled and shot. Visited by Field Team.

" 5 - " " mucked three hours, drilled and shot.

" 6 - " " extended Air-line, mucked.

" 7 - " " Drilled two rounds, shot and mucked.

" 10 - " " mucked, drilled and shot.

" 11 - " " mucked mine out clean, water getting worse.

" 12 - " " Drilled one round, shot, pumped water 15 minuets, mucked.

" 13 - " " Drilled two rounds, pumped water, shot & mucked.

" 14 - " " Mucked and pumped water, drilled and shot.

" 17 - " " mucked out clean, not much pegmatite showing.

" 18 - " " Visited by field team, who instructed me to finish footage allowed by contract by Thursday at which time they would be back to give a final examination on project. Drilled.

" 19 - " " Drilled from bottom of shaft direct north. Not much pegmatite showing and no mica. Shot & mucked.

" 20 - " " Visited by field team who gave mine a good examination and after measuring workings, advised me to close project as there was so much water and no pegmatite containing any mica.

This is the final progress report and the final vouchers on this project as the pegmatite pinched out in every direction and there was never any Mica of any value found.

Yours truly,

Joe C. Vance

Joe C. Vance, Operator
Crab Orchard Mine
Plumtree, N. C.

INTERIM REPORT

DMEA-3811, Idm-8833 (mica) CRAB ORCHARD PR

OPERATOR: Joe Vance, Plumtree, N. C.

LOCATION: In the flood plain west of North Toe River, 3,000 fee
of Plumtree, Avery Co., N. C.

All work as authorized has been completed on this contract wit
out making a worthwhile discovery of strategic mica. The operator disclosed on the last visit that no additional exploration at his own expense would be attempted. Certification will not be recommended.

Work completed consisted of sinking a vertical shaft to a total depth of 29.5 feet and driving 50 feet of drift from this level. Two essentially flat-lying pegmatites separated by 3 to 5 feet of biotite gneiss were encountered in shaft sinking between the 18-foot level and the bottom. Both were of variable thickness and contained scattered mica, the lower body exhibiting the best quality mica. Drifts were driven as follows: N40°E for 7 feet, N80°E for 23 feet, turning to N40°E at this point for 10 feet, and due south for 10 feet. The body appeared to thin to a feather edge in these distances, and drift work was stopped in each of these headings because of this condition. The body appears to be pod-shaped and has been explored sufficiently; no additional exploration is warranted. In addition to shafting and drifting, a toolhouse, powder magazine, and cap magazine were built under contract. Ten and one-half feet of shaft provided was not used. Negligible production resulted from work completed, and that mica produced was of poor quality.

All work completed was conducted in a satisfactory manner.

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

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

October 18 and 20, 1955

Hopkins

RECEIVED
OCT 1 7 1955

INTERIM REPORT

DMEA-3811, Idm-E833 (mica) CRAB ORCHARD PROSPECT

OPERATOR: Joe Vance, Plumtree, N. C.

LOCATION: In the flood plain west of North Toe River, 3,000 feet N24°W of Plumtree, Avery Co., N. C.

Drifting continues on this contract and now totals 33 feet. Ten feet of drift has been driven due south following a narrow pegmatite which thinned in that direction. This work was stopped, and emphasis has been placed on a drift to the northeast, which is now at 23 feet. This work has followed a pegmatite about 2 feet thick composed of feldspar, minor quartz, and muscovite mica of fair quality. The operator was directed to turn the drift from N75°E to about N45°E in an effort to pick up thicker pegmatite. Negligible production has resulted from drift work to date. Progress on this contract is satisfactory.

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

K. H. Teague, Geologist
U. S. Geological Survey

October 4, 1955

Mr Hopkins

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

25

RECEIVED OCT 7 - 1955

Month of September, 1955 Docket No. DMEA 3811 Contract No. 833
Operator's Name Joe C. Vance Minerals Mica
Address Plumtree, N. C.
Contract Amount, $ 3,264.00 Government Participation: 75 % Amount, $ 2,448.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting Feet	875.00	175.00	1050.00			
Shaft Feet		1050.00	1050.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
~~Pipe~~ Tool House		75.00	75.00			
~~Track~~ Powder Magzn.		25.00	25.00			
Exploder Magzn.		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):						
		1339.00				
TOTALS	875.00	~~2214.00~~	2214.00	875.00	1339.00	2214.00

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

Date Oct. 1, 1955 *Payee Joe C. Vance

Per Joe C. Vance 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:

$ 656.25

Signature Helen R. Miller
(Authorized Certifying Officer)

Date OCT 5 1955 Vou. No. 66

(See other side)

218.75

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E838 in accordance with the terms of the contract.

Signature W. J. Lynch Title Mining Eng Date 10/3/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date OCT 3 1955

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

RECEIVED
OCT 7 - 1955

Month of Sept. 195 5 Docket No. DMEA 3811 Contract No. 833
Operator's Name Joe C. Vance Minerals Mica
Address Plumtree, N. C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Feet	875.00	25	1050.00	30	1050.	50	1750.00
Crosscutting								
Raising								
Shafts	Feet			1050.00	30	1050.	40	1400.00
Winzes								
Drilling: Core								
Churn								
Auger								
Sampling Tool House	1			75.00	1	75.	1	75.00
Trenching Powder Mag.	1			25.00	1	25.	1	25.00
Shafts Expld. Mag.	1			14.00	1	14.	1	14.00
Roads and Trails								
TOTAL DISTRIBUTED COSTS		875.00		2214.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		875.00		2214.00				

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. 1, 1955 Operator Joe C. Vance

Per Joe C Vance 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)

V. J. Lynch
Mining Eng.
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

September Monthly Report of Progress

DMEA Soil Mica
Contract No. 233

Joe C. Vance, Plumtree, N. C.

RECEIVED
OCT 7 - 1955

Work Accomplished

Sept. 1- Pumped water, mucked, drilled, shot and mucked out.

" 2 Pumped water, drilled one round, mucked afternoon.

" 5 Cleaned out mine, extended air line, drilled.

" 6 Pumped water, mucked morning, drilled afternoon.

" 7 Pumped water, extented waterline, mucked out, drilled.

" 8 Pumped water, shot up bottom of tunnel, found more pegmatite containing small mica.

" 9 Pumped water, mucked out, drilled and shot.

" 12 Pumped water, mucked drilled one hole in top of tunnell, pegmatite looks good but no mica.

" 13 Pumped water, mucked morning drilled, shot and mucked.

" 14 Pumped water, worked on hoist, drilled, shot and mucked.

" 15 pumped water, drilled and mucked.

" 16 Pumped water, pegmatite took a dip, drilled one round, mucked.

" 19 Valve broke on compressor, had to order parts, no work in mines.

" 20 No work- Visited by field men but due to excess water in mine they could not make an inspection in tunnell.

" 21 Repaired compressor, drilled and mucked in afternoon. pumped water.

" 22 Pumped water, drilled 2 rounds morning, shot and mucked.

" 23 Pumped water, worked one hour on track, mucked out clean.

" 26 Pumped water, drilled one round, shot, mucked and drilled.

" 27 Pumped water, drilled, mucked, shot and mucked.

" 28 Pumped water, drilled two rounds, shot and mucked.

" 29 Pumped water, mucked out, drilled one round.

" 30 Pumped water, shot, mucked out, drilled afternoon.

INTERIM REPORT

REC

SEP 1

IMEA-3811, Idm-E833 (mica) CRAB ORCHARD PROSPECT

OPERATOR: Joe Vance, Plumtree, North Carolina

LOCATION: In the flood plain west of North Toe River, 3000 feet N24°W of Plumtree, Avery County, North Carolina

Vertical shaft sinking has been completed to a total depth of 29.5 feet. Turnoff has been made in a N75°E direction, and a drift advanced for 10 feet. This level work has been accomplished on the lower pegmatite, which exhibits a maximum thickness of about 2 feet in the present heading. The body is essentially flat and appears pod-shaped with feathered edges. It is composed of feldspar, quartz, garnet, and small blocks of muscovite mica. Mica production from both the upper and lower bodies does not exceed 50 pounds of "mine-run" block, and is of poor quality.

No additional timber work, as recommended, has been accomplished. The operator was advised to complete necessary work at the portal, provide more headroom in the drift, and to provide underground miners with safety hats.

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

K. H. Teague, Geologist
U. S. Geological Survey

SEP 6 1955

August 6, 1955

(April 1952) (Rev.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

18
RECEIVED
SEP 9 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 1955 Docket No. DMEA 3011 Contract No. 833
Operator's Name JOE C. VANCE Minerals MICA
Address PLUMTREE, N. C.
Contract Amount, $ 3,264.00 Government Participation: 75 % Amount, $ 2,448.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting and Shaft—Feet	700.00	525.00	1,225.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
~~Pick~~ Tool House		75.00	75.00			
Powder Magazine		25.00	25.00			
Exploder Magzine		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	700.00	639.00	1,339.00	700.00	639.00	1339.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 9-1-55 *Payee Joe C. Vance
Per Joe C. Vance 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:

$ 525.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date SEP 7 1955 Vou. No. 47
(See other side)

175.00

(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. Idm E-833 in accordance with the terms of the contract.

Signature Harvey H. Cross Title Geologist-USGS Date Sept. 6, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date SEP 6 1955

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.

GPO 83-38476

F-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

RECEIVED
SEP - 9 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 5 1955 Docket No. DMEA 3011 Contract No. MICA 833

Operator's Name JOE C. VANCE

Address FLORITNE, N. C.

Minerals

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	Feet	175.00	5'	175.00	5	~~175.00~~ 35.00	50	~~1750.00~~ 35.00
Crosscutting								
Raising	Feet	525.00	15'	1050.00	30'	~~1050.00~~ 35.00	40	~~1400.00~~ 35.00
Shafts								
Winzes								
Drilling: Core								
Churn								
Fuel House	1			75.00	1	75.00	1	75.00
Powder Magazine	1			25.00	1	25.00	1	25.00
Trenching Exploder Mags.	1			14.00	1	14.00	1	14.00
Test Pits								
Roads and Trails								
Total Distributed Costs		700.00	20'	1339.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		700.00		1339.00				

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 9-1-55 Operator Joe C. Vance

Per Joe C. Vance Title Operator

Remarks: Drifting in pegmatite but no mica of any size so far.

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) Henry H. Ramos
Geologist, USGS
Sept. 6, 1955

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 83-38475

DMEA NO. 3811
IMM E NO. 833

RECEIVED
SEP - 9 1955

Month of August

Work Accomplished: Daily Summary

August 1. - Hauled timber for the shaft.
2. - Set timbers.
3. - Cribbed sides of shaft using 2" Oak Lumber.
4. - Drilled morning shift, mucked in afternoon.
5. - Set in more timber and built up sides.

8. - Drilled and shot, worked on hoist.
9. - Mucked morning, extended ladder. Visited by Field Men.
10 - Drilled morning shift, mucked out afternoon.
11 - Drilled through small streak pegmatite, found some wedge "A" mica.
12 - Mucked out, pumped water and drilled, encountered quite a lot of water.

15 - Pumped out water, set up and drilled one round, shot and mucked out.
16 - Encountered very much water, drilled into another streak of pegmatite and found small flat mica. This pegmatite found at a depth of 25½ feet.
17 - Mucked out, pumped water and drilled. Shot. Back in slate.
18 - Pumped water, mucked out and drilled in afternoon.
19 - Pumped out, drilled into pegmatite about 18" thick encountering small mica nothing large enough to determine quality.

22 - Pumped water, mucked out, drilled and shot afternoon.
23 - Mucked out and pumped water. Visited by field men.
24 - Pumped out water, drilled back into slate, shot and mucked out.
25 - Pumped water, drilled, shot and mucked out. Shaft 30' deep.
26 - Pumped water and started drilling on incline 5' from bottom of shaft.

29 - Pumped water, extended ladder, drilled and mucked afternoon.
30 - Pumped water, drilled, shot and mucked.
31 - Pumped water, drilled and shot two rounds, mucked out. Pegmatite built up 2' thick, looks as if it might produce mica soon.

9 7

RECEIVED
SEP - 1955

INTERIM REPORT

DMEA-3811, Idm-E833 (mica) CRAB ORCHARD PROSPECT

OPERATOR: Joe Vance, Plumtree, N. C.

LOCATION: In the flood plain west of North Toe River, 3,000 feet N24°W of Plumtree, Avery Co., N. C.

Vertical shaft sinking continues on this contract and is now at 23 feet. Pegmatite has been encountered at 18 feet in the shaft that has a thickness of about 2 feet and is relatively flat-lying. It is primarily feldspathic, contains some quartz and medium to large blocks of wedge "A" green mica. Underlying this body there is a 3 to 5 ft. section of biotite gneiss containing scattered garnet. Underlying the country rock and partially visible in the bottom, is another pegmatite body which has a thickness of about 4 feet, according to the driller. Mica in this body is flat and does not exhibit the same characteristics as the overlying 2 ft. pegmatite. A better description will be given as soon as the body is properly exposed.

The operator was reminded to back-fill around the cribbed portion of the shaft and to extend cribbing vertically from the surface to prevent loose material from falling into the working area. Progress on this contract is satisfactory.

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

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

August 23, 1955

INTERIM REPORT

DMEA-3811, Idm-E833 (mica) CRAB ORCHARD PROSPECT

OPERATOR: Joe Vance, Plumtree, N. C.

LOCATION: In the flood plain west of North Toe River, 3,000 feet N24°W of Plumtree, Avery Co., N. C.

Vertical shaft sinking continues on this contract and is now at 18 feet. The major portion of this work has been in garnetiferous biotite gneiss country rock, but the foreman reported that pegmatite had been encountered in the last round of holes pulled. This was not confirmed because of 3 feet of mud and muck in the bottom of the shaft.

New equipment now in use at the mine is a 105 c.f.m. air compressor, and mine car and tract to handle muck. Progress on this contract is satisfactory.

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

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

August 9, 1955

RECEIVED
AUG 31 1955

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG - 5 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July 1955 Docket No. DMEA 3811 Contract No. 833
Operator's Name Joe C. Vance Minerals Mica
Address Plumtree, North Carolina
Contract Amount, $ 3,264.00 Government Participation: 75 % Amount, $ 2,448.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Shaft Feet	525.00	0	525.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pine Track						
Tool House	75.00	0	75.00			
Powder Magazine	25.00	0	25.00			
Exploder Magazine	14.00	0	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	639.00	0	639.00	639.00		639.00

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

Date 8-1-55 *Payee Joe C. Vance

Per Joe C. Vance 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:

$ 479.25

Signature Helen R. Millin (Authorized Certifying Officer)

Date AUG 3 1955 Vou. No.

(See other side)

156.75

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-833 in accordance with the terms of the contract.

Signature Kepton H. Teague Title Geologist, U.S.G.S. Date 8/2/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date AUG 2 1955

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.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG - 5 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 5 Docket No. DMEA 3011 Contract No. 833
Operator's Name Joe C. Vance Minerals Mica
Address Pluntree, North Carolina

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 (Feet.)	FIST	525.00	15'	525.00	15'	525.00	40	1400.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping Tool House	1	75.00	1	75.00	1	75.00	1	75.00
Trenching Powder Mgzn.	1	25.00	1	25.00	1	25.00	1	25.00
Test Pits Exploder Mgzn.	1	14.00	1	14.00	1	14.00	1	14.00
Roads and Trails								
TOTAL DISTRIBUTED COSTS		639.00 639.		639.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		639.00		639.00				

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 8-1-55 Operator Joe C. Vance

Per Joe C. Vance 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)

Keyton H. Teague, Geologist

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

RECEIVED
AUG - 5 1955

DMEA No 3811
IDM-E No. 833

Month of July

Date work began July 14, 1955

Work Accomplished:

July 14- Measured off shaft, hired two workmen, started sinking shaft.

15- Removed soft dirt from shaft, began to hit slate one corner.

18- Cleaned off place for Hoist, moved compressor in place.

19- Set up Hoist and timbers for cable line.

20- Set down Compressor, connected up pipe lines and drilled one round.

21- Removed rock and loose dirt from shaft.

22- Hauled limber for tool house, powder & exploder magazine. Built powder magazine.

25- Finished tool house & exploder magazine.

26- Drilled and mucked two rounds. Hit hard slate.

27- Drilled and blasted first round, vertical shaft 5' x 7'. Visited by field men.

28- Mucked out shaft on morning shift, drilled one round afternoon shift.

29- Started setting in timbers in shaft, mucked out shaft and encountered some water, set in pump.

RECEIVED
AUG - 8 1955

INTERIM REPORT

DMEA-3811, Idm-E833 (mica) CRAB ORCHARD PROSPECT

OPERATOR: Joe Vance, Plumtree, N. C.

LOCATION: In the flood plain west of North Toe River, 3,000 feet N24°W of Plumtree, Avery Co., N. C.

Vertical shaft sinking is underway and is now at 13 feet. Material encountered to date has been a muscovite-biotite schist. No timbering has been accomplished, and temporary ladders are now in use. Equipment on the jobs consists of a gasoline-powered hoist, conventional hoisting frame, and a 105 c.f.m. air compressor. The operator was advised to provide a railing around the cellar and do other necessary timbering as soon as practicable. Progress on this contract is satisfactory.

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

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

July 27, 1955

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

RECEIVED
JUN 28 1955

June 27, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 3811 (mica)

Applicant: Joe Vance

Name and Location of Property: Crab Orchard Prospect, Avery County, North Carolina

Date of Field Team Report: June 1, 1955

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

Field Team Recommendation: Exploration program of shaft sinking and drifting.

Comments:

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

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

Recommendation:

I concur with the field team's recommendation for exploration program at a cost of $3,263.00

W. F. Dietrich

W. F. Dietrich

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

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SIGNED

W. F. Dietrich

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I concur with the field team's recommendation for exploration program at a cost of $3,263.00

SIGNED,

W. F. Dietrich

JUN 3 0 1955 600

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

Subject: Docket No. DMEA-3811 - Miss
Joe C. Vance
Crab Orchard Mine
Avery County, North Carolina

Dear Mr. Lawrence:

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

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

After execution of the contract, the copies are to be distributed in the usual manner. Copies of a memorandum from H. H. Nelson of the Geological Survey, dated June 15, 1955, are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

Enclosures 6

JHopkins:gad 6/27/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5222
Mr. Houk

Memorandum: June 21, 1955.

To: Files

From: James Hopkins

Subject: Evaluation of Application and Field Examination Report
Docket No. DMEA-3811
Joe C. Vance

Mica:

The mica-bearing pegmatite was uncovered by recent ditching.

The mica is of excellent quality. It is abundant and occurs in sizes at least 6 inches in diameter. It is nonruby, and flat clear and free splitting. Some books exhibit broad ruling.

Pegmatite

The pegmatite appears to be conformable to the enclosing mica gneiss wall rock. It is probably in excess of 6 feet in thickness and contains soda feldspar and scattered quartz. Pegmatite material is exposed over a distance of ± 100 feet.

Old Workings:

This is a brand new unworked pegmatite.

Method of Exploring:

The proposal to sink a shaft on the pegmatite to a depth of 40 feet and then to drift for 50 feet is good sound exploration practice on a newly found pegmatite.

All work will be in the peg matrix.

Economics:

As there has been no production, a discussion on economics of the project is not in order.

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 15, 1955

Re: DMEA-3611
Joe Vance
Crab Orchard Prospect
Plumtree, N. C.
$3,2 3.00 - Mica

Memorandum

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

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

Subject: Review of field examination report

The work proposed seems well designed for the exploration of this pegmatite.

I agree with the recommendations of the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:hlm
G-6/15/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061 Interior

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

RECEIVED
JUN 13 1955

June 10, 1955

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report, DMEA-3811 (mica) Joe Vance, Plumtree, N. C. Crab Orchard Prospect, Avery County, N. C.

Enclosed are four copies of the subject examination report and six extra copies of the sketch map. The examination was made, without field referral, while the examiners were in the vicinity on other inspections.

We agree with the examiners' conclusions that the deposit is worth exploring, and that the underground approach is preferable to drainage diversion and open-cut work. Therefore, we recommend approval of a unit-cost contract, as outlined in the report.

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

V. J. Lynch, Member
Bureau of Mines

RAL/zm
cc:
Lynch
Shirley
Files

RECEIVED
JUN 1 -

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT BY REGION V

On

DMEA-3811, (mica) CRAB ORCHARD PROSPECT
AVERY COUNTY, NORTH CAROLINA

By

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

June 1, 1955

FIELD EXAMINATION REPORT
ON
DMEA-3811 (mica) CRAB ORCHARD PROSPECT

RECEIVED JUN 1 3 1955

Applicant: Joe Vance, Plumtree, North Carolina

Mica-bearing pegmatite has been uncovered by recent ditching. The mica is of excellent quality and pegmatitic material was uncovered for a distance in excess of 100 feet. There is sufficient evidence at this place to warrant additional work; therefore, the examiners recommend that exploration assistance be granted.

The deposit was examined on June 1, 1955. Messrs. Joe Vance, and T. B. Vance, accompanied the examiners on the inspection which required two hours.

The Crab Orchard Prospect is in the flood plain west of North Toe River, 3000 feet N. 24° W. of Plumtree, Avery County, North Carolina. It is readily accessible.

The applicant has had previous projects with DMEA that were conducted satisfactorily; therefore, he is competent to conduct this one. The area under lease is adequate for the proposed project. The examiners have not seen the amended land description; however, Mr. Vance pointed out one of the property corners which is shown on the attached sketch. The location of the proposed shaft is 150 feet east-southeast of the lease corner.

No exploration work has been done on the deposit. There are no surface facilities on it.

Rock exposures are scarce in the general vicinity of the prospect. in the escarpment south of the drainage ditch. pegmatite is exposed at two places and mica gneiss over the pegmatite at one place. The mica gneiss wall rock trends about E-W, and dips 10° S. Apparently the pegmatite is conformable to the wall rock. It is probably in excess of 6 feet in thickness and contains soda feldspar with scattered quartz. Mica is abundant and occurs in sizes at least 6 inches in diameter. The mica is non-ruby in color, hard, flat, clear, and free splitting. Some books exhibit broad ruling.

The applicant has proposed re-locating the present drainage ditch some 40 feet north of its present course and then stripping the pegmatite by open cut methods. As the proposed re-location route of the ditch is in flood plain material, much water would be encountered in an open cut along the pegmatite. Therefore, the examiners believe that an easier approach would be to leave the drainage ditch undisturbed and use the present escarpment south of the pegmatite outcrop as a barrier and sink

a 40-foot shaft at the position shown on the attached sketch. If the dip remains the same as the outcrop this shaft should intersect pegmatite at about the 25-foot level; however, should the dip steepen to as much as 26°, the 40-foot shaft would intersect the pegmatite. After pegmatite is intersected, levels should be turned east and west and the pegmatite followed on its strike for not more than 50 feet. Care should be taken to leave the rock undisturbed up-dip from the point where the shaft cuts pegmatite. Even with this 50-foot barrier, considerable water can be expected.

Estimated Cost:

Toolhouse	$75.00
Powder Magazine	25.00
Exploder Magazine	~~13.00~~ 14.00

Sink 40-foot, 2-compartment timbered shaft(20 shifts)

Labor:		
1 - Miner @ $1.50/hr.	$240.00	
1 - Hoistman @ $1.25/hr.	200.00	
1 - Laborer @ $1.00/hr	160.00	
Equipment (rental)		
Compressor, pump and drill, 10 shifts @ $240/mo.	120.00	
Hoist @ $50/Mo.	50.00	
Supplies:		
Explosives	50.00	
Drill steel	45.00	
Gasoline and oil	60.00	
Timber, 3 M b.f. @ $65/M	195.00	
Small tools and pipe	80.00	
Miscellaneous	100.00	
Insurance and Social Security	100.00	$1,400.00

1 mo

Drive 50 feet of drifts (25 shifts)

Labor:		
1 - Miner @ $1.50/hr.	300.00	
1 - Hoistman @ $1.25/hr.	250.00	
1 - laborer @ $1.00/hr.	200.00	
Equipment (rental)		
Compressor, drill, pump and jackleg @ $250/Mo.	312.50	
Hoist @ $50/Mo.	62.50	
Supplies:		
Explosives	150.00	

1 1/2 mos

Supplies (cont'd)

Drill steel	$60.00	
Gasoline and oil	100.00	
Small tools and pipe	75.00	
Miscellaneous	100.00	
Insurance and Social Security	140.00	$1,750.00

Estimated Total Cost..... ~~$3,263.00~~ → 3264.00

Examined: June 1, 1955 Gov. Part. @ 75% → $2448.00

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

z

816 3

600

MAY 2 6 1955

Mr. Joe C. Vance

Plumtree, North Carolina

Re: Docket No. DMEA-3611 - Mica
Joe C. Vance
Crab Orchard Mine
Avery County, North Carolina

Dear Mr. Vance:

Reference is made to your application for exploration assistance dated May 9, 1955, on the Crab Orchard Mine.

It is noted that the property under lease to you comprises a plot of ground 210 feet long and 110 feet deep containing .53 acre. This acreage is inadequate for an exploration project. The smallest area acceptable to DMEA would be the area benefited by the exploration work, the minimum being five acres.

If you are able to acquire this additional acreage you should have your lease amended. You should then submit the new lease together with six copies of the enclosed Consent to Lien forms. We are returning the copy of your lease which you originally submitted.

Please send us a detailed description of your proposed work and the estimated cost of each item.

Upon receipt of the above documents and work estimates, we will continue processing your application.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosures 7

JHopkins:ad 5/26/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Mr. Killaguard, 5222
Mr. Dietrich, 3061
Mr. Houk

IN REPLY REFER TO:

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

May 19, 1955

Re: DMEA-3611
Joe C. Vance
Plumtree, Avery Co.,
North Carolina
No estimate
Mica

Memorandum

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

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

Subject: Review of application

The applicant appears to have been working in an area in which some new finds of good mica have recently been reported. The modest request for stripping and trenching will no doubt be followed by one for shaft sinking and drifting.

A Field Team sign up of this discovery is needed.

N. E. Nelson

N. E. Nelson

NENelson:hlm
G-5/19/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061 Interior

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

May 19, 1955

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No estimate
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NENelson:hlm
G-5/19/55

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Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061 Interior

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

Defense Minerals Administration
RECEIVED

May 19, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3811 (mica)

Applicant: Joe C. Vance

Name and Location of Property: Crab Orchard Mine
Avery County, North Carolina

Date Application Rec'd. by Branch of Ceramic & Fertilizer Mtls.: 5/18/55

Comments:

1. No data available in this office on subject mine.

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

Recommendation:

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

Signed

W. F. Dietrich

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

May 19, 1955

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Defense Minerals Exploration Administration

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Signed

W. F. Dietrich

LEGAL DESCRIPTION OF PROPERTY

A Mine know as the Crab Orchard Mine situated in the Crab Orchard Tract of Land about ($\frac{1}{4}$) one fourth mile north of Plumtree, N. C. The said Crab Orchard Mine is located in the drainage ditch from the Birch Spring and is centrally located in the following described plot of land.: Begining at a stake in the Birch Spring and running south 55 feet to a stake in the Orchard Piece, thence; east 210 feet to a stake, thence; north 110 feet to a stake in the Big Meadow, thence; west 210 feet to a stake, thence; south 55 feet to the begining, containing one acre more or less.

1/2 acre

Legal description copied from lease dated May 8, 1955.

Lease has been renewed
Now 15 years (recorded)

IN REPLY REFER TO:

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

May 19, 1955

Re: DMEA-3811
Joe C. Vance
Plumtree, Avery Co.,
North Carolina
No estimate
Mica

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NENelson:hlm
G-5/19/55

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Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061 Interior

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BUREAU OF MINES
WASHINGTON 25, D. C.

May 19, 1955

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Applicant: Joe C. Vance

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Avery County, North Carolina

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

Recommendation:

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

Signed

W. F. Dietrich