DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Zeb Angel
Box 91, Franklin, N. C.

and his assignee

Carolina Mining Company
Box 314, Franklin, N. C.

pertaining to Exploration Project Contract No. Idm-2790, Docket No. DMEA-3689, including Amendment Nos. 1 and 2, for the months of May 1955 to May 1956, inclusive, covering a project for the exploration of mica on property, known as the Zeb Angel Mine located in Macon 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		$5,276.00
Exceptions:		
By DMEA Finance Officer (7' shaft)	$280.00	
Herewith	-0-	280.00
Total Accepted Cost		$4,996.00

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 Three thousand seven hundred forty-seven and no/100 Dollars

$3,747.00

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, Auditor

June 18, 1956

Division [illegible]

EXPLORATION PROJECT CONTRACT

DMEA-3689, Idm-E790 (mica)

Roy H. Fouts and William Dinnes, Assignees

AMENDMENT No.2

Contract Idm-E790, Docket No. DMEA-3689, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration and Roy H. Fouts and William Dinnes, Assignees d/b/a Carolina Mining Company, dated April 28, 1955, is hereby further amended as follows:

1. Article 3 is amended to read,....." and shall bring the project to completion within a period of fourteen (14) months from the date of the contract instead of twelve (12) months as written in Amendment No. 1.

April 27, 1956

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the agreed unit cost of any item of work.

This amendment is necessary because: Work was not completed due to illness of the Operator, and a delay in finding an Assignee to finish the work. Completion of the Contract is considered to be in the interest of the Government.

CAROLINA MINING COMPANY

By Roy H. Fouts (Partner)

By William Dinnes (Partner)

THE UNITED STATES OF AMERICA

By Robert A. Lawrence
Executive Officer, DMEA
Field Team, Region V

Division copy

Putin
Dunyo
Hope
Hoch
Glamber
Selfridge

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MAY 7 - 1956

ASSIGNMENT OF CONTRACT

WHEREAS, Zeb Angel (hereinafter called the "Assignor"), entered into Exploration Project Contract Idm-2790 (Docket No. NEKA-3669), dated April 25, 1955 (hereinafter called the "Contract"); and

WHEREAS, Carolina Mining Company, a partnership composed of William Bisnes and Roy H. Fouts, whose address is P. O. Box 314, Franklin, North Carolina (hereinafter called the "Assignee"), has acquired the Assignor's interest in the land which is the subject of the Contract and the Assignee desires to complete the work under the Contract;

NOW THEREFORE, effective April 10, 1956, the Assignor, subject to acceptance by the Assignee and consent of the Government, in consideration of the sum of One Dollar ($1.00) and other good and valuable consideration received from the Assignee, does hereby assign, transfer, and convey to the Assignee all of his right, title, and interest in the Contract: Provided, That the Government shall make payment to the Assignor for the work performed prior to said effective date, and upon payment thereof the Government shall be and is hereby released by the Assignor from all claims under the Contract.

The Assignor consents to all future amendments and assignments of the Contract and waives notice thereof.

Dated this 1st day of May, 1956.

ZEB ANGEL

Zeb Angel [Seal]

ASSIGNEE'S ACCEPTANCE

The Assignee hereby accepts the above Assignment and agrees to be bound by all the terms, provisions, and conditions of the Contract. The Assignee expressly assumes and agrees to pay to the Government any royalty that may have accrued and remains unpaid on the

effective date of the Assignment and that may accrue thereafter under the provisions of the Contract.

Dated this 1 day of May, 1956.

CAROLINA MINING COMPANY

By William Dinnes [Seal]
William Dinnes (Partner)

By Roy H. Fouts [Seal]
Roy H. Fouts (Partner)

GOVERNMENT'S CONSENT

The Government, this 26th day of April, 1956, hereby consents to the above Assignment without releasing the Assignor from any of the terms, provisions, and conditions of the Contract.

THE UNITED STATES OF AMERICA

By C. Mitchell
Administrator, Defense Minerals
Exploration Administration

DIVISION COPY

EXPLORATION PROJECT CONTRACT

DMEA-3689, Idm-E790 (mica)

ZEB ANGEL, Franklin, N. C.

AMENDMENT NO. 1

Contract Idm-E790, Docket No. DMEA-3689, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration and ZEB ANGEL, dated April 28, 1955 is hereby amended as follows:

1. Article 3 is amended to read,"..... and shall bring the project to completion with a period of twelve (12) months from the date of the contract instead of seven (7) months as first written in the original contract.

November 10, 1955

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be obligated to pay, or the percentage of the cost which the Government may be obligated to pay, under the provisions of Article 5 of the subject contract.

Zeb Angel

Zeb Angel, Operator

Robert A. Laurence

Robert A. Laurence,
EXECUTIVE OFFICER
DMEA REGION V

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NOV 23 1955

Division copy

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 6 - 1953

MF-200A
(Revised June 1954)

Docket No. DMEA - 3609

Commodity Mica ~~790~~

Contract No. Idm-E 790

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

It is agreed this 28th day of April, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Zeb Angel, whose mailing address is Box 91 Franklin, 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 .....

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 Macon, 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] ~~not~~ recorded in Book II-6, page 21, official records of said County; and

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

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

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

16—70618-1

(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 June 20, 1955 shall commence the work, and on or before November 15, 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 $5,276.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $3,957.00: *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.

[redacted]
(Operator)

By [redacted]

THE UNITED STATES OF AMERICA

By [redacted]
[redacted]

"Appd. Sol. Off."

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

.....

[CORPORATE SEAL]

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

RECEIVED
Delaware Geological
Survey
MAY 3 1 1955

EXPLORATION PROJECT CONTRACT
ZEB ANGEL
DOCKET NO. DMKA-3689

ANNEX I

The land referred to in Article 2 of the contract form was leased for a period of 5 years, renewable, by Herman Dean and wife, Alma, to the Operator by an instrument recorded February 11, 1955. The land is described as follows:

BEGINNING at a stake situated N. 40 deg. 6½ poles from a black oak, corner on a ridge the same being a corner of W. D. Simpson tract, and runs N. 40 deg. 12' E. 57.24 poles to a pile of stones; then N. 80 deg. 56' E. 51 poles to a maple; then N. 2 deg. 52' E 188 poles to a stake thence N. 88 deg. 16' W. 48.6 to a stake at branch; thence with branch as follows: S 77 deg. 48 min. W 30.88 poles to a stake; thence S 65 deg. 19' W 4.24 poles to a stake; South 52 deg. 07' W. 15.32 poles to a stake; S. 61 deg. 21' W. 28.84 poles to a stake in the branch; thence S. 81 deg. 9' W 6.08 poles to a stake on bank of Highway No. 285, thence with Highway South 35 deg. 35' W. 8 poles to a stake at the NW corner of Simpson tract; thence S 69 deg. 30' E 46.4 poles to the Beginning, containing 15 acres.

EXPLORATION PROJECT CONTRACT
ZEB ANGEL
DOCKET NO. DMEA-3689

EXHIBIT "A"

Description of the Work

The work shall be performed in two successive stages, as follows:

Stage I

With a D-4 bulldozer or equivalent, cut two trenches, each 75 feet by 12 feet by 10 feet, to expose the full thickness and determine the lateral extent of the pegmatite.

One crosscutting trench may be located at either of the two locations shown on the map entitled "Sketch of Zeb Angel Mine, Mason County, N. C. DMEA-3689 (mica)," attached hereto and made a part hereof. The Government shall approve in advance the location of the second trench.

No trenching work may be performed within 50 feet of a property line, unless approved in writing in advance by the Government.

Stage II

The Operator shall perform such of the work set forth under Stage II as is approved in advance by the Government.

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 storage 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. (a) At a point agreed upon between the Government and the Operator, sink a 60-foot shaft on the pegmatite. The shaft shall have minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

(b) From a point 5 feet above the bottom of the shaft, drive 80 feet of drifts on the pegmatite having minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

The shaft may be extended below the 60-foot depth if, in the opinion of the Government, conditions warrant it, by substituting a portion of the drifting footage for sinking.

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

Stage I

Bulldoze 20 hours @ $10.00/hr.	$ 200.00

Stage II

Construct:

Toolhouse 1/	76.00
Powder storage magazine 1/	26.00
Exploder storage magazine 1/	14.00

1/ The completed work constitutes the unit.

Sink 60 feet of shaft @ $40.00/ft.	$2,400.00	
Drive 80 feet of drifts @ $32.00/ft.	2,560.00	
Estimated Total Cost of Project		$5,276.00
Government Participation @ 75%		$3,957.00

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 18 1955

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

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

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

2/ _____

hereinafter called the "Operator"; and

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

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

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

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

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

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

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

(OVER)

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

4. Changes and added provisions In paragraph 2 the words "the period fixed in the contract or any amendment thereof has" are substituted for "ten years have."

Dated this 1[illegible] day of [illegible], 195[illegible].

Herman Dean [Seal]

Alma Dean [Seal]

_____ [Seal]

600

APR 26 1957

Carolina Mining Company
P. O. Box 314
Franklin, North Carolina

Re: Docket No. 3639-Mica
Carolina Mining Company (Assignee)
Zeb Angel (Assignor)
Zeb Angel Mine
Macon County, North Carolina
Contract No. Idm-E790

Gentlemen:

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

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

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

Sincerely yours,

[illegible]

[illegible] Administrator

LGHouk:rsi 4/22/57
Copy to: Admr. R. File
Mr. Chambers
Field Team, Region V
Mr. Kiilsguard, 5222
Mr. Dietrich, 3061
Mr. Houk
Operating Committee

APR 25 1957

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

Re: Docket No. 3689-Mica
Carolina Mining Company (Assignee)
Zeb Angel (Assignor)
Zeb Angel Mine
Macon County, North Carolina
Contract No. Idm-E790

Dear Mr. Laurence:

Enclosed is a letter to be forwarded to the signers of the Owner's Consent to Lien under the subject contract.

Kindly complete the address and forward, retaining your copies and returning our copies.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

Frank D. Lamb

Member, Bureau of Mines

W. P. Williams

Member, Geological Survey

WCAnderson:rsi 4/24/57
Copy to: Admr. R. File
Mr. Chambers
Mr. Killsgaard, 5222
Mr. Dietrich, 3061
Operating Committee
Mr. Houk

April 23,1957

Project Summary Report

By: W. C. Anderson:

1. Docket No. DMEA-3689 - Mica
Contract No. Idm-E790
Zeb Angel Mine
Macon County, North Carolina

Operator: Carolina Mining Company (Assignee)
P. O. Box 314
Franklin, North Carolina

Operator's property rights: Five year lease by Herman Dean and wife, Alma Dean, consisting of fifteen acres. witnessed February 11, 1955.
Owner's Consent to Lien dated February 15, 1955.
Assignment dated May 1, 1956

Application: Dated February 15, 1955

Work proposed by applicant;

60 feet of shaft @ $50.00 per foot	$3,000.00
75 feet of tunnel @ $35.00 per foot	2,625.00
Toolhouse	100.00
Powderhouse	50.00
Total requested	$5,775.00

Form MF-200A (June 1954)

2. Contract/dated April 28, 1955

Work authorized:

Stage I	
Bulldose 20 hours @ $10.00/hr.	$200.00
Stage II	
Construct: Toolhouse, Powder Storage Magazine, Exploder Storage Magazine	116.00
Sink 60 feet of shaft @ $40.00/ft.	2,400.00
Drive 80 feet of drifts @ $32.00/ft.	2,560.00
Estimated total cost of project	$5,276.00
Government participation @ 75%	$3,957.00

Amendments: No. 1, 11/10/55,
extended the completion date from November 15, 1955 to April 28, 1956

No. 2, April 27, 1956, extended the completion date from April 28, 1956 to June 28, 1956.

Work completed:

Stage I	
20 hours bulldozing	$200.00
Stage II	
Construction: Toolhouse, Powder and Exploder Magazines	116.00
53 ft. shaft sinking @ $40.00/ft.	2,120.00
80 ft. drifting	2,560.00
Total accepted cost	$4,996.00
Government participation	$3,747.00

Work began May 23, 1955 and was completed May 31, 1956.
Field Team Final Report received July 5, 1956.
Operator's Final Report received June 1, 1956.
Estimated value of production $42.00, on which no royalty was paid.
No equipment was purchased under the contract.

3. Audit: Report of Review dated June 18, 1956

Accepted cost	$4,996.00
Government participation @ 75%	$3,747.00

4. Certification of discovery or development: None issued.

5. Comments:

How conducted: All of the workin which the Government participated was accepted.

Operation: Fair to good

Engineering: Good

Geological Premise: The premise that the northwest extension of an already explored pegmatite would contain commercial quantities of strategic mica was wrong.

Geological criteria upon which work was based:
1. Pegmatite - 5 to 20 feet thick, quartz core up to 12 feet thick, decomposed and at least 600 feet long.
2. Mica - strategic quality, some flat and clear, most do not exceed 3 inches across, some are up to 8 inches wide.

Criteria developed during project:
1. Pegmatite - zoned, concordant, varying in thickness from a few inches to more than 20 feet, composed of perthite, plagioclase, massive quartz and very little muscovite. Country rock is semi-weathered mica gneiss.
2. Mica - sparse occurrence, ruby, stained, cracked and bent.

Future possibilities: Since no significant reserves are either indicated or inferred, this mine has no further possibilities.

Recommendations

The Nonmetallic Minerals Division and the commodity members of the Geological Survey and Bureau of Mines concur in the Field Team's recommendation that the mine not be certified as a discovery.

WCAnderson:rsi 4/23/57
Copy to: Admr. R. File
Mr. Houk

3689

Field Examination

Mica in dump strategic — Max. size 3"

± 600' strike length

3 zones 5' – 20' wide

10–12' x 150' quartz outcrop

Mica flat + clear

(1) Good grade

Cinder cut

Backfilling gives good grade — Sand stope

Shaft at 14' not in mica (scarp) 400' to E.O.

27' – 3 zones 3' wide mica [illegible] shaft

Jul 29 — 40' mica [illegible]

Aug 12 — 45 water –

Oct 4 — 45' S

Nov 17 — 50' 6.5' left [illegible]

Dec 15 — 50' – 2.5' mica [illegible]

Required for assessment – application made

assessed

May 8 — 50 – 4.5'

May 21 — – 67 Heavy ground

IN REPLY REFER TO:

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

RECEIVED
OCT 22 1956

October 19, 1956

Re: DMEA 3689, Idm E-790
Carolina Mining Co.
Zeb Angel Mine
Macon Co., North Carolina
$5,276 - Mica

Memorandum

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

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

Subject: Review of Field Team final report.

The contract authorized the expenditure of $5,276 on a two-stage work program consisting of bulldozing, shaft sinking and drifting. The work completed consists of two trenches, 53 feet of shaft and 80 feet of drifting. The cost was $4,996. About 400 pounds of run-of-mine block mica, of an estimated value of $42, was recovered.

As no strategic mica was discovered, the examiners and the Field Team recommend that no certification be made.

I concur with the recommendation.

M. E. Nelson

M. E. Nelson

Copy to: Director's Reading 4212
Branch Reading 4212
DMEA (3)
Docket File
Chron File
W. F. Dietrich 3061

Nelson:baf
G: 10/19/56

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

July 18, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-3689 (mica)

Applicant: Carolina Mining Co. (H. Fouts & A. W. Reid)

Name and Location of Property: Bob Angel Mine, Macon County, N. C.

Contract Number: Idm-E 790

Date of Field Team Report: 7/3/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 7/9/56

Field Team Recommendation: Recommend no certification of discovery.

Comments:

1. Although a small quantity of mica was produced during the contract sufficient work has been done to indicate the pegmatite is not suitable for producing large quantities of strategic mica.

2. Expenditures -

Total approved	$5,276.00
Total cost	4,996.00
Gov't. share of the cost	3,747.00
Value of production during operation	42.00 (est.)

Recommendation:

I concur with the field team's recommendation.

Signed

W. F. Dietrich

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

July 3, 1956

Memorandum

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

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

Subject: Final Report, DMEA-3689, Ldm-E790 (Mica)
Carolina Mining Co., assignee
Zeb Angel Mine, Macon County, North Carolina

Enclosed are four copies of the subject report.

No mineable reserves were discovered or developed although there was a small production of mica during the contract.

We do not recommend certification of discovery.

Reviewed by
DMEA OPERATING COMMITTEE
7-9-56
(date)

Robert A. Laurence
Executive Officer

V. J. Lynch, Member
Bureau of Mines

RAL/mg
Enclosures 4
cc
Operating Committee (3)
Lynch
Shirley
Files

RECEIVED
JUL 5 - 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT BY FIELD TEAM, REGION V

FINAL REPORT

On

DMEA-3689, ZEB ANGEL (mica) Idm-E790
Macon County, North Carolina

By

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

and

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

Reviewed by
DMEA OPERATING COMMITTEE
7-9-56
(date)

RECEIVED
JUL 5 - 1956

July 3, 1956

FINAL REPORT
On

DMEA-3689, ZEB ANGEL MINE (mica)
Macon County, North Carolina

Operator: Zeb Angel, Franklin, North Carolina

Summary

Work has been completed without making a significant discovery of muscovite. No reserves are indicated or inferred. Eighty feet of timbered drift was driven in weathered material from the 50-foot level of a two-compartment vertical 53-foot shaft. It is recommended that no certificate of discovery be issued.

Introduction

Location

The Zeb Angel Mine, consisting of many pits, cuts and shafts, is 2.5 airline miles N 35° E of Franklin, Macon County, N. C., and a few hundred yards east of Dean.

History and Workings

The mine has been worked intermittently since 1890, by Zeb Angel, Herman Dean and A. W. Reid, and most recently by the Carolina Mining Co., (Roy Fouts and William Dinnes, Box 314, Franklin, N. C.). T he Carolina Mining Company assumed the responsibility of completing the present contract because of the illness of the original operator, Mr. Zeb Angel.

Operator

Mr. Zeb Angel, a competent miner of many years, conducted an efficient project before his illness in the fall of 1955 and his automobile accident in the spring of 1956. His successor, the Carolina Mining Company

is to be commended for carrying through to completion a difficult job in the heavy ground encountered. They complied fully with the field examiners' instructions and cooperated in every possible way. Mr. Fouts has removed his equipment and plans no further work at the mine.

Geology

Work Under Contract

Work at the Zeb Angel Mine, consisting of two stages began May 23, 1955, and was completed on May 31, 1956. The final inspection was made June 5, 1956.

Stage I consisted of two bulldozed trenches; one was crosscutting the pegmatite, and was 75' x 12' x 6' deep, trending northeast-southwest, and the other to the southeast, was made along strike (northwest-southeast) and was 80' x 22' x 15' deep.

A toolhouse, powder magazine and exploder magazine were constructed under Stage II. A vertical, timbered, 2-compartment 5-ft by 7-ft shaft was sunk to a depth of 53 ft. A timbered, 5-ft by 7 ft drift was driven 80 ft to the southeast from the 50-ft shaft level generally between the pegmatite hanging wall and quartz core. It extends (from the shaft) 25 ft S 30° E, 35 ft S 62° E, 10 ft E, thence 10 ft S 55° E. Heavy ground was encountered from the 45-ft station in the drift to the 80 ft station. The drift had to be lagged solid overhead and in places on the sides with oak stulls, set on 6 ft centers. In some places the overhead stoped itself upward to 30 feet.

Pegmatite and Country Rock

The zoned, concordant pegmatite has a strike of N 65°W and dips vertically. The trenching further exposed the pegmatite, which is zoned with a 2 to 6-ft quartz core surrounded by weathered feldspar, and is 19 ft thick. Its composition is perthite, plagioclase, massive quartz, and muscovite, with the plagioclase and muscovite being more abundant on the southeastern end of the exposure.

At the 27-ft shaft level about 3 ft of pegmatite was exposed on the northeastern side of the shaft. T he strike and dip of the pegmatite at that point is N 40° W and 65° NE. The country rock at that point was semi-weathered mica gneiss.

The 40- ft level shows the body, with unknown thickness, on the southwestern side of the shaft.

Both the strike and dip of the pegmatite changed and at the 50 ft level was N 70° E and 70° NW. The pegmatite at that level contained a 2 to 3 ft quartz core and was surrounded by essentially hard biotite gneiss. Some medium-sized muscovite crystals exist adjacent to the core, but are rather sparse.

At the 45 ft station in the drift the pegmatite narrowed to about 6 inches in the roof, but was thicker on the floor. This material became stringers and continued for 20 ft to the 67-ft point in the drift where a thick pegmatite was encountered on the north wall.

The last work was done in that pegmatite, but no muscovite was recovered. This body is perhaps a parallel pegmatite that may or may not be related somewhere back toward the shaft. It was followed only on the

southern side of a quartz core so the actual thickness is not known but can be inferred to be about 15 ft. The 7 ft thick core was flanked on the southern side by a 4-ft zone of fine-grained kaolinized feldspar which is completely barren of muscovite.

Slickensides in the biotite gneiss exist intermittently throughout the drift with no definite orientation.

Muscovite

About 400 pounds of "mine-run block" ruby muscovite (stained, cracked and bent), was recovered under the contract. Of that amount, 200 pounds was recovered during the bulldozing, and the rest, either in the shaft or from the first 25 feet of the drift. Generally the quality is extremely poor.

The 400 pounds of block will probably (at 1% recovery) sheet 4 pounds of trimmed muscovite of stained No. 5 1/2 and No.6, which at $7.55 per pound may be worth approximately $30.00. The 396 pounds remaining may be 96 pounds of punch and 300 pounds of scrap.

The punch is estimated to be worth at 8¢ per lb., about $7.68; and the scrap @ 1 1/2 ¢ per lb., about $4.50.

The total value of the 400 pounds of block is estimated to be $42.00.

No reserves of any significance are either indicated or inferred.

Conclusions

Only about 400 pounds of bent, and stained "mine-run block" muscovite, worth approximately $42.00 was recovered during trenching, shafting (53 ft) and from an 80-ft drift. The work performed did not result in a discovery of strategic muscovite. It is therefore recommended that the mine not be certified as a discovery.

Expenditures

(a)	Total approved	$5,276.00
(b)	Total cost of project	4,996.00
(c)	Government's share of cost	3,747.00
(d)	Government's share unexpended	210.00
(e)	Value of production (estimated)	42.00
(f)	Royalty	None

July 3, 1956.

A. R. Taylor, Geologist
Geological Survey

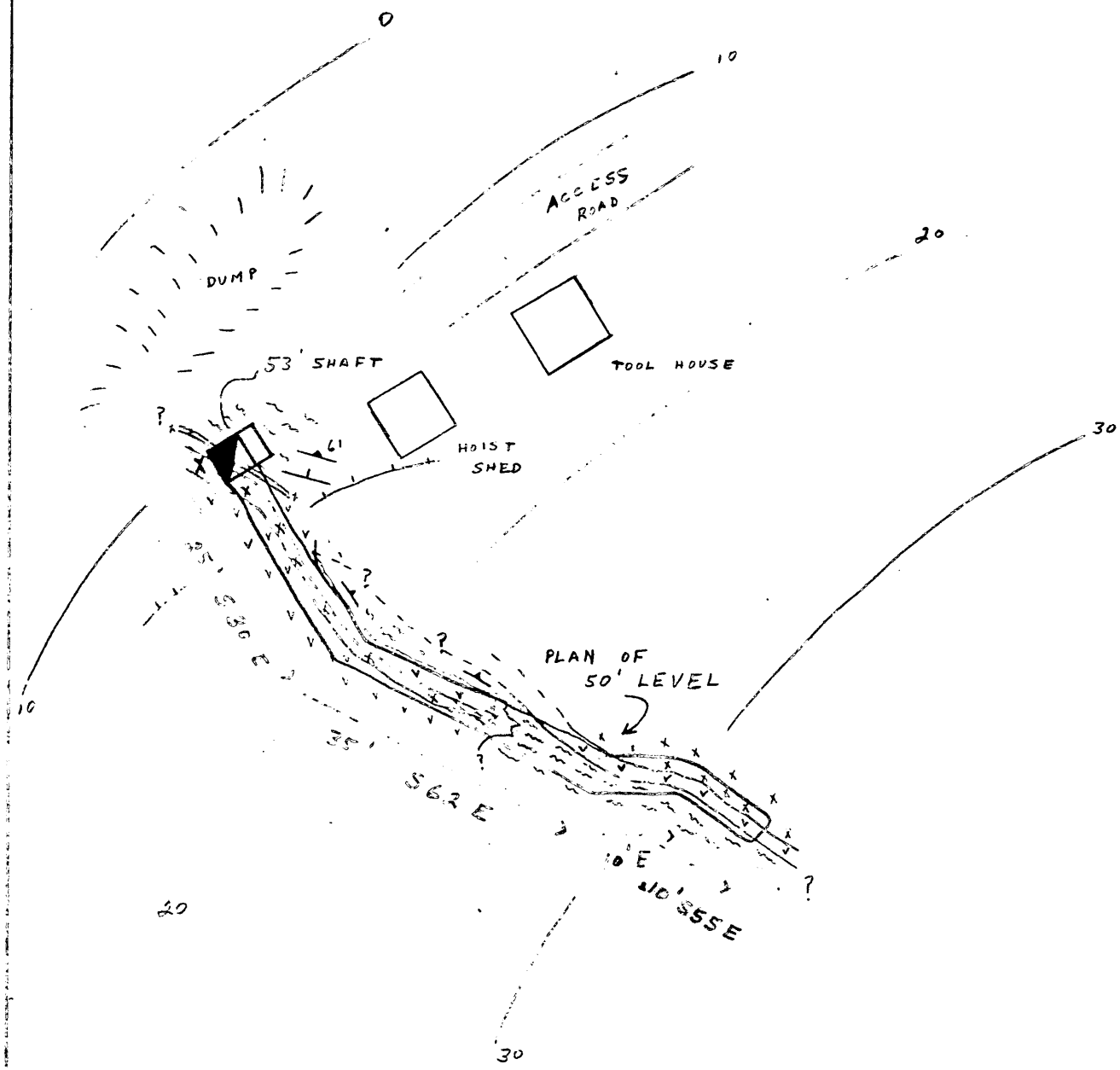
L. E. Shirley, Mining Engineer
Bureau of Mines

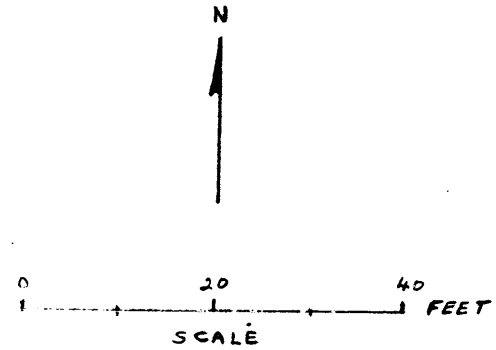
ZEB ANGEL MINE

DMEA -3689 (MICA)

MACON CO., N.C.

7-2-56





BIOTITE GNEISS

PEGMATITE

QUARTZ CORE

STRIKE + DIP OF PEG.

STRIKE + DIP OF GNEISS FOLIATION

SHAFT

ART

INTERIM REPORT

RECEIVED
JUN 1 5 1956

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

OPERATOR: Zeb Angel, P. O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, Macon Co., N. C.

This contract has been completed without making a sizable or worthwhile discovery of strategic mica. The Field Examiners do not recommend certification beaause of a lack of sufficient reserves.

Work completed consisted of sinking 53 feet of vertical, 2 compartment cribbed shafts, and driving 80 feet of drift from the 50 foot shaft level. Shaft sinking was begun in pegmatite exposed by Stage I of the contract which consisted of trenching by bulldozer. A toolhouse, a powder magazine, and an exploder magazine were built upon completion of Stage I. The shaft was bottomed in pegmatite, and 80 feet of drift followed a pegmatite striking N70°E and dipping steeply northwest. The last 20 feet of drift followed a large body composed of a massive quartz core at least 7 feet thick flanked by a 4 foot kaolinized feldspar zone, barren of mica. The enclosing country rock was highly weathered and caused considerable trouble from the 45 foot point in the drift to the present face.

The Examiners are of the opinion that this body has been explored thoroughly and additional exploration is not justified. The work was completed satisfactorily after an assignment of the contract was made to the Carolina Mining Company.

Mr. V. J. Lynch, Bureau Member of the Field Team, Region V, accompanied the Examiners on this visit to the mine.

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

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

June 5, 1956

Hopkins
Houk

600

June 12, 1956

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Amendment No. 2 - Docket No. 3689-mica
Carolina Mining Company (Assignee)
Zeb Angel (Assignor)
Zeb Angel Mine
Macon County, North Carolina
Contract No. Idm-E790

The Nonmetallic Minerals Division concurs in the Amendment No. 2 to the subject contract as written and executed in the field. This Amendment changes the completion date from April 28, 1956 to June 28, 1956, which is fourteen months from the date of the contract.

Amendment No. 2 is necessary because of the delay in finding an Assignee to complete the work.

James Hopkins
Nonmetallic Minerals Division

JHopkins:ms 6/12/56
Copy to: Mr. Houk
Admr. R. File

P. O. Box 217
June 7, 1956

Memorandum

To: Jay L. Chambers, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Administrative Assistant, Electrotechnical Experiment Station, Bureau of Mines, Region V, Norris, Tennessee

Subject: Monthly reports and vouchers

We are enclosing two copies each of the following monthly reports and vouchers:

Idm-E-790
Carolina Mining Company
Docket No. DMEA-3689
6th and final payment - month of May
Completion Date: 5/31/56
Amount $1032.00

Idm-E-832
J. R. Beam and John Phillips
Docket No. DMEA-3793
3rd payment - month of May
Amount $640.50

Idm-E-938
Jarrett-Grindstaff-Grindstaff
Docket No. DMEA-4080
1st payment - month of May
Starting Date: 5/1/56
Amount $1377.00

Idm-E-948
Brown Sparks and Cecil Phillips
Docket No. DMEA-4094
1st payment - month of May
Starting Date: 5/7/56
Amount $1119.00

Helen R. Miller

Attachments
/hbm
Copies to R. A. Laurence
V. J. Lynch
Norris and Day files

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1956 Docket No. DMEA 3689 RECEIVED Contract No. Idn-E 790
Operator's Name Carolina Mining Company Minerals Mica
Address P.O. Box 314, Franklin, N.C. JUN 11 1956
Contract Amount, $ 5276.00 Government Participation: 75 % Amount, $3957.00

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	none	200.00	200.00		200.00	200.00
Crosscutting						
Drifting	1376.00	1184.00	2560.00	1376.00	1184.00	2560.00
Shaft	none	2400.00	2400.00		2120.00	2120.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		116.00	116.00		116.00	116.00
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1376.00	3900.00	5276.00	1376.00	3620.00	4996.00

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

Date May 31, 56 *Payee CAROLINA MINING COMPANY

Per Roy V. Smith Title Partners

*When 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:

$1032.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date JUN 7 1956 Vou. No.
(See other side)

6 5/31 344.00

(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. E-790 in accordance with the terms of the contract.

Signature Alfred R. Taylor Title Geologist, USGS Date 6-1-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date JUN 7 1956

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

RECEIVED

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1956 Docket No. DMEA 3689 Contract No. Idm-E790
Operator's Name CAROLINA MINING COMPANY Minerals Mica
Address P.O. Box 314, Franklin, North Carolina

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft	1376.00	43	2560.00	80	32.00	80	32.00
Crosscutting								
Raising								
Shafts	Ft	none	none	2400.00	60	40.00	60	40.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Bulldozing	hrs	none	none	200.00				
TOTAL DISTRIBUTED COSTS		1376.00		5160.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs		none	none	116.00				116.00
New Buildings, Improvements, etc.								
TOTAL COSTS		1376.00		5276.00				116.00

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

Date May 13, 1956 Operator CAROLINA MINING COMPANY

Per [signature] Title Partners

William Jones

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)

$ 2120.00 for a total of 53 ft of shaft has been approved ~~paid~~. The shaft was sunk to a total depth of 53 ft.

Alfred R. Taylor, Geologist, USGS
June 1, 1956

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

OPERATOR'S
MONTHLY REPORT FOR
THE MONTH OF
MAY, 1956

CAROLINA MINING COMPANY, OPERATOR
P.O. Box 314,
Franklin, North Carolina

Contract No. Idm-E 790
Docket No. DMSA 3689
Mica - Zeb Angel

May 1956

1. Moved Dozer in and started dozing, installed compressor, men in mine drilled, blasted one round, mucked, after de-watering mine.
2. Installed automatic Float Switch (electric), covered Hoist and Compressor, by building building over them. Re-located tool house, after dozing out space. Re-built exploder magazine. Did some dozing on Mine Dump. Men in mine, mucked and drilled one round and blasted. No Mica.
3. Dozed good road to Mine., Had trouble with pump. Repaired and re-located water discharge line coming from mine. Men in mine Drilled and blasted one round, mucked.
4. Timbered one 5' stand, pegmatite getting soft and decomposed, mucked, Finished dozing ore from ground mine and completed road and parking space.
5. Men in mine did not work, but took dozer away to next job, and worked on pump.
6. Checked pump.
7. Visited by Field Team, Mine Flooded, pump giving trouble, but we pumped water, cut timber and at close of day mine was clear of water.
8. Drilled, mucked, timbered, and blasted.
9. Mucked,
10. Timbered, and blasted.
11. Mucked, no mica, drilled and blasted.
12. Greased pump, hoist, and checked pump.
13. no work
14. Installed Blower, Mucked, drilled and blasted
15. Mucked, timbered, blasted, drilled.
16. Mucked, timbered.
17. Mucked.
18. Trouble with pump and final quit, installed new pump, mucked, timbered, and blasted three holes. The entire vein is very soft except at bottom.
19. Checked pump,
20. No work, but checked pump.
21. Visited by Field Team, Timbered, mucked.
22. Mucked and timbered.
23. Mucked.
24. Mucked and timbered. Very soft and decomposed.
25. Mucked, timbered and drilled two holes and blasted but very light.
26. Check pumped
27. No work.
28. Hit pocket of water, mucked, and drilled into Quartz ledge.
29. Mucked and timbered.
30. Mucked and timbered, all digging with hand pick along quartz ledge
31. Mucked and timbered. No mica completed 81 feet.

Roy H. Foote (SEAL)

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

RECEIVED
JUN - 8 1956

June 6, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region V

Subject: Amendment No. 2 - Contract Idm-8790, Docket No. DMEA-3689
Roy H. Feuts and William Dinnes, Assignees
d/b/a/Carolina Mining Company (Mica)
Zeb Angel Mine, Macon County, North Carolina

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

Robert A. Laurence

mg
Enclosures 3
cc - Operating Committee (3)
Mr. V. J. Lynch
Finance Office
Mr. L. E. Shirley
Files

June 1, 1956

RECEIVED
JUN - 4 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Operator's Final Report, DMEA-3689, Idm-E790 (mica)
Carolina Mining Co., Assignee. Zeb Angel Mine,
Mason County, N. C.

Enclosed are four copies of the Operator's final report on the subject contract, which was completed May 31, 1956.

An Amendment extending the time for completion from April 28 to June 28 has been sent to the Operator, and will be forwarded to you when we receive the executed copies.

Please note that the Operator's report states that a 60-foot shaft was sunk, with a drift at about the 55-foot level. This is incorrect. The shaft is 53 feet deep with drift turn-off at the 50-foot level. The shaft had been completed and the drift turned off before the Assignee took over the contract. Only 53 feet of shaft has been paid for.

Robert A. Laurence

RAL/am
cc:
Lynch
Shirley
Files

RECEIVED
JUN 4 1956

CAROLINA MINING COMPANY
P.O. Box 314
Franklin, North Carolina

ENGINEERING AND GEOLOGIC REPORT

Contract No. Idm-S 790
Docket No. DMA 3609 - Mica

Zeb Angel Mine, Macon County,
North Carolina

May 31, 1956

This contract by and between Zeb Angel and Defense Minerals Exploration Administration, was signed on the 28 April 1955, for the purpose of exploration of mica in the Franklin-Sylva District of North Carolina, known as the Zeb Angel Mine.

On the 1st day of May 1956, this contract was assigned to Carolina Mining Company, a partnership composed of William Dinnes and Roy H. Routs, who completed said contract under the specification of the office of Mr. Robert A. Laurence, DMA Region V., Knoxville, Tennessee.

Work was preformed in two successive stages. First stage was to cut two trenches, each 75 feet by 12 feet by 10 feet, which exposed the full thickness and extent of the pegmatite. Trenching was was performed on a designated point agree upon by the operator of said mine and the field team.

The second stage was to construct a toolhouse, 10 feet by 8 feet by 7 feet, unfloored, with protective roof and equipped with lock and key, construct a storage magazine for powder, dimension 4 feet by 3 feet by 2½ feet, construct an exploder storage magazine 3 feet by 1½ feet by 1 foot, and meet such other standards which would please the state inspector of mines.

A 60 feet shaft was put down on the pegmatite. This shaft, had a cross-sectional dimensions of 5 feet by 7 feet in the clear of timber, with a man-way 3 feet by 7 feet. On or about the 55 foot point an 80 foot drift was drive on such pegmatite as available having cross-sectional dimensions of 5 feet by 7 feet in the clear.

The geological structor looked promising for mica on the surface and continued as the worked progressed, but no worthwhile amount of mica was produced.

Pegmatite was composed of mica schist, quartz, feldspar, and biotite. The country rock was badly weathered and decomposed structor required timbering. Abrupt changes, dip, fractures and gentle-dipping normal fault cut the gneiss, which probable had a bearing on the kind of mica. It was also flanked by a very large column of quartz near the end of the 30 foot drift.

CAROLINA MINING COMPANY

Roy H. Routs

RECEIVED
JUN 1 - 1956
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

RECEIVED
JUN - 4 1956

0011179
JUN - 1 1956

CAROLINA MINING COMPANY
P.O. Box 334
Franklin, North Carolina

ENGINEERING AND GEOLOGIC REPORT

Contract No. Idn-E 700
Docket No. MMA 3689 - Mica

Deb Angel Mine, Macon County,
North Carolina

May 31, 1956

This contract by and between Deb Angel and Defense Minerals Exploration Administration, was signed on the 28 April 1955, for the purpose of exploration of mica in the Franklin-Sylva district of North Carolina, known as the Deb Angel Mine.

On the 1st day of May 1956, this contract was assigned to Carolina Mining Company, a partnership composed of William Dianne and Roy H. Routs, who completed said contract under the specification of the office of Mr. Robert A. Lawrence, DMA Region V., Knoxville, Tennessee.

Work was performed in two successive stages. First stage was to cut two trenches, each 75 feet by 12 feet by 10 feet, which exposed the full thickness and extent of the pegmatite. Trenching was also performed on a designated point agree upon by the operator of said mine and the field team.

The second stage was to construct a toolhouse, 10 feet by 8 feet by 7 feet, unfloored, with protective roof and equipped with lock and key, construct a storage magazine for powder, dimension 4 feet by 3 feet by 2½ feet, construct an exploder storage magazine 2 feet by 1½ feet by 1 foot, and meet such other standards which would please the state inspector of mines.

A 60 foot shaft was put down on the pegmatite. This shaft, had a cross-sectional dimensions of 5 feet by 7 feet in the clear of timber, with a man-way 2 feet by 7 feet. On or about the 55 foot point an 80 foot drift was drive on such pegmatite as available having cross-sectional dimensions of 5 feet by 7 feet in the clear.

The geological structor looked promising for mica on the surface and continued as the work progressed, but no worthwhile amount of mica was produced.

Pegmatite was composed of mica schist, quartz, feldspar, and biotite. The country rock was badly weathered and decomposed structor required timbering. Abrupt changes, dip, fractures and possible dipping normal fault out the region, which probable had a bearing on the kind of mica. It was also flanked by a very large column of quartz near the end of the 80 foot drift.

CAROLINA MINING COMPANY

Roy H. Routs

RECEIVED
JUN 1 - 1956
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Contrs.
Koor.

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

RECEIVED
MAY 31 1956

OPERATOR: Zeb Angel, P. O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, Macon County, North Carolina

Drifting continues to the northeast on this contract and now totals 67 feet. Considerable heavy ground has persisted for the last 20 feet which has slowed progress considerably. Stringer material has been followed from the 45 foot point in the drift, but thicker pegmatite is evident on the northwest wall near the present face. The Operator was advised to put a test hole in the wall at this point to find out the thickness of the body. If the thickness warrants it, the remaining 13 feet of drift will be driven in this body.

The Operator was cautioned concerning heavy ground and was advised to continue timbering the drift using solid top lagging. Progress on this contract is satisfactory.

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

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

May 21, 1956

RECEIVED
MAY 18 1956

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

Operator: Zeb Angel, P. O. Box 91, Franklin, North Carolina

Location: East of Dean and 2-1/2 miles (airline) N35°E of Franklin, Macon County, North Carolina

Work on this contract has resumed after a short delay awaiting reassignment. Drift work now totals 45 feet from the shaft bottom to the last stulls. An advance of an additional 10 feet beyond this point has been made but water and subsequent heavy ground over the past week-end had filled this 10 foot area with loose material. In the roof area only narrow pegmatite can be observed, but the floor area contains thicker pegmatite on the northwest side of the drift.

The operator was advised to continue the drift in the present direction and to continue timbering, setting stulls on 6 foot centers and using solid top lagging. Progress has been satisfactory on this contract.

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

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

May 8, 1956

May 3, 1956

RECEIVED
MAY 7 - 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Assignment of Contract - Ion-E790, DMEA-3689, Zeb Angel, Franklin, N. C.

Transmitted are three signed copies of the subject Assignment of Contract. Distribution of the other copies has been made by this office.

Robert A. Laurence

ZM.
cc:
Finance
Lynch
Shirley
Files

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APR 26 1956

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

Re: Docket No. DMEA-3689-Mica
Zeb Angel
Zeb Angel Mine
Mason County, North Carolina
Contract No. DMA-2790

Dear Mr. Lawrence:

Reference is made to the Field Team memorandum of April 12, 1956, requesting that the necessary papers be prepared for the transfer of the subject exploration contract to the Carolina Mining Company.

We have prepared and enclose the original and six copies of the assignment, acceptance, and consent forms, the last having been signed by the Administrator for the Government, with effective date as shown.

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

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

JHopkins:ms 4/24/56
Copy to: Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 9061
Mr. Houk
Mr. Hopkins
Admr. R. File

Enclosures: 7

Memorandum

To: Mr. Robert Dwyer, Associate Solicitor

From: C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration

Subject: Assignment of Contract - Docket No. DMEA-3689-Mica
Zeb Angel
Zeb Angel Mine
Macon County, North Carolina
Contract No. Idm-2790

Please prepare the necessary assignment, acceptance, and consent forms for transfer of the subject contract to Carolina Mining Company in accordance with the request of the Field Team in a letter dated April 12, 1956.

This assignment is recommended by the Field Team and concurred in by the Nonmetallic Minerals Division because the Operator has been incapacitated as a result of an auto accident.

C. O. Mittendorf

C. O. Mittendorf,
Administrator

JHopkins:ms 4/16/56
Copy to: Mr. Hook
Mr. Hopkins
Admr. R. File
Docket

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

Operator: Zeb Angel, P. O. Box 91, Franklin, North Carolina

Location: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, Macon Co., N. C.

No additional drift progress is reportable on this contract. The operator has made arrangements and is in the process of transferring his interest in the mine to the Carolina Mining Co. An official of this company was present at the time of this visit and was instructed that the Government could not participate in the continuance of this project until legal transfer is made and accepted by Washington.

Mr. V. J. Lynch, Bureau of Mines Member of the Field Team, Region V, accompanied the Examiners on this visit to the mine.

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

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

April 10, 1956

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

RECEIVED
APR 18 1956

April 12, 1956

Memorandum

TO: Operating Committee, DMEA - Washington

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

Subject: DMEA-3689, Idm-E790 (mica). Zeb Angel, Franklin, N. C.
Zeb Angel Mine, Macon County, North Carolina

Enclosed are the original and 2 copies of a letter from the Operator requesting an assignment of the subject contract. Recently Mr. Meadows advised us that he does not want to take over the unfinished work from Mr. Angel. Enclosed also are a letter from Carolina Mining Company and a copy of a transfer of the lease to them from Mr. Angel.

I have talked with Mr. Angel recently, and I am reasonably sure that he will be unable to complete the work. Carolina Mining Co., is a competent, reliable company, and Mr. Roy Fouts has done satisfactory work on several DMEA contracts. The Field Team believes it is to the advantage of the Government to assign this contract, and if you agree, you are requested to prepare the necessary assignment, acceptance and consent forms.

Additional time will be needed in order to complete the contract. We will prepare an amendment extending the time after we receive the assignment papers and will submit it to the Assignee for execution along with the assignment forms.

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

RAL/am
cc:
Lynch
Shirley
Files
Opr. Com.

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

RECEIVED
APR 1 2 1956

April 12, 1956

Memorandum

TO: Operating Committee, DMEA - Washington

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

Subject: DMEA-3689, Idm-E790 (mica). Zeb Angel, Franklin, N. C.
Zeb Angel Mine, Macon County, North Carolina

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

RAL/xm
cc:
Lynch
Shirley
Files
Opr. Com.

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

RECEIVED
APR 1 5 1956

April 12, 1956

Memorandum

TO: Operating Committee, DMEA - Washington

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

Subject: DMEA-3689, Idm-E790 (mica). Zeb Angel, Franklin, N. C.
Zeb Angel Mine, Macon County, North Carolina

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Additional time will be needed in order to complete the contract. We will prepare an amendment extending the time after we receive the assignment papers and will submit it to the Assignee for execution along with the assignment forms.

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

RAL/sm
cc:
Lynch
Shirley
Files
Opr. Com.

RECEIVED
APR 13 1956

CAROLINA MINING COMPANY
P.O. Box 314
Franklin, North Carolina
April 10, 1956

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

Dear Mr. Laurence: Zeb Angel - Docket No. DMEA-3689
Idm-E790 - Mica

The enclosed assignment is for your attention and consideration.

If this meets with your approval we would like to have above mentioned contract assigned to Carolina Mining Company.

We will endeaver to try to complete subject in a manner which contract entented for same.

Yours very truly,

CAROLINA MINING COMPANY

By Roy N. Fouts

By William Dimmes

Enclosure - 1 Assignment

RECEIVED
APR 12 1956
U. ... Survey
Geologic Division
Knoxville, Tenn.

NORTH CAROLINA
MACON COUNTY

RECEIVED
APR 2 3 1956

THIS ASSIGNMENT, Made and entered into this the 10th day of April, 1956, by ZEB ANGEL, party of the first part, to CAROLINA MINING COMPANY, party of the second part,

WITNESSETH: That for and in consideration of the sum of One Dollar and other valuable consideration to him in hand paid, receipt of which is hereby acknowledged, the party of the first part does hereby trasfer, set over and assign unto the said party of the second part all his right, title and interest in and to a certain lease executed by Herman Dean and wife Alma Dean to Zeb Angel, dated the _____ day of _____, 1955, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book H-6, page 21, and also all the rights and privileges of the said party of the first part in and under an exploration contract between United States of America and Zeb Angel being Docket No. DMEA-3689, Contract No. Idm-E790.

IN TESTIMONY WHEREOF, the party of the first part has hereunto set his hand and affixed his seal the day and year first above written.

_____ (SEAL)

NORTH CAROLINA
MACON COUNTY

Personally appeared before me this day ZEB ANGEL, who acknowledged the due execution of the foregoing assignment for the purposes therein expressed.

WITNESS my hand and notarial seal, this 10th day of April, 1956.

_____
Notary Public, Macon County, N. C.
My Commission Expires December 22, 1957

RECEIVED
APR 1 0 1956

Franklin, N. C.
March 6, 1956

Mr. Robert A. Laurance
Room 13 Post Office Building
Knoxville, Tennessee

Re: DMEA-3689
Contract #Idm-E 790
Zeb Angel

Dear Mr. Laurance:

I was in a very bad automobile accident this week and I am of the opinion I will be physically unable to complete the above contract.

I have discussed the matter at length with Mr. H. C. Meadows, Route #3, Franklin, N.C., and have made arrangements with him whereby he has agreed to complete this project if it can be assigned to him by your office.

Therefore, I hereby request that in the interest of the completion of this project that it be assigned at this time to Mr. H. C. Meadows, Route #3, Franklin, N.C. for its early completion. Mr. Meadows has agreed to abide by the terms of the contract and to execute the necessary papers and forms.

It will be appreciated if you will let us hear by return mail in relation to this matter.

Yours very truly,

Zeb Angel

RECEI
MAR 7 -
Knoxville, T

RECEIVED
APR 2 3 1956

Franklin, N. C.
March 6, 1956

Mr. Robert A. Laurance
Room 13 Post Office Building
Knoxville, Tennessee

Re: DMEA-3689
Contract #Idm-E 790
Zeb Angel

Dear Mr. Laurance:

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Therefore, I hereby request that in the interest of the completion of this project that it be assigned at this time to Mr. H. C. Meadows, Route #3, Franklin, N.C. for its early completion. Mr. Meadows has agreed to abide by the terms of the contract and to execute the necessary papers and forms.

It will be appreciated if you will let us hear by return mail in relation to this matter.

Yours very truly,

Zeb Angel

RECEIVED
MAR 7
Knoxville

RECEIVED
APR 9 - 1956

INTERIM REPORT

DMEA-3689, Idm-E970 (mica) ZEB ANGEL

Operator: Zeb Angel, P.O. Box 91, Franklin, North Carolina

Location: 2.5 airline miles N 35° E of Franklin, Macon County, N. C.

Operator is sick, no progress to report.

The drift heading is 37 feet, contract calls for 80 feet.

Inspected: March 29, 1956

A. L. Peyton, Mining Engineer
Bureau of Mines

A. R. Taylor, Geologist
Geological Survey

INTERIM REPORT

IDMEA-3689, Idm-2970, ZEB ANGEL MINE
(mica)

Operator: Zeb Angel, P.O. Box 91, Franklin, North Carolina

Location: 2.5 airline miles N 35° E of Franklin, Macon County, N. C.

Mine inaccessible, drift under water.

No progress to report.

Inspected: March 16, 1956

A. L. Peyton, Mining Engineer
Bureau of Mines

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

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

RECEIVED
MAR 14 1956

March 12, 1956

Mr. Zeb Angel

Franklin, North Carolina

Re: DMEA-3689, Idm-E790-Mica
Zeb Angel Mine, Macon County, N. C.

Dear Mr. Angel:

Reference is made to your letter of March 6, requesting that Exploration Contract Idm-E790 be assigned to Mr. H. C. Meadows.

Before we can present your request to the Washington office, it will be necessary for us to have a written statement from Mr. Meadows saying that he will accept the assignment of the contract along with the responsibilities connected with it.

As soon as we hear from Mr. Meadows your request for reassignment will be forwarded to our Washington office.

Very truly yours,

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

VJL/xm
cc:
Opr. Com.-2
Lynch
Files

Shirley

INTERIM REPORT

DMEA-3689, Idm-E970, ZEB ANGEL MINE
(mica)

Operator: Zeb Angel, P.O. Box 91, Franklin, North Carolina

Location: East of Dean and 2 1/2 miles (airline) N 35° E of Franklin, Macon County, North Carolina

No progress since the last visit, mine still inaccessible, drift under water.

Inspected: March 1, 1956

A. L. Peyton, Mining Engineer
Bureau of Mines

A. R. Tayler, Geologist
Geological Survey

RECEIVED
FEB 27 1956

INTERIM REPORT

(H)
DMRA-3689, Idm-5970, ZEB ANGEL MINE
(mica)

Operator: Zeb Angel, P.O. Box 91, Franklin, N. C.

Location: East of Dean and 2 1/2 miles (airline) N 35° E of Franklin, Macon County, North Carolina

The last measurment was 25 feet of drift taken December 15, 1955. Since that time the drift has been full of water. Efforts to dewater the mine during this visit failed.

Inspected: February 17, 1956

A. L. Peyton, Mining Engineer
Bureau of Mines

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

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of DECEMBER, 195 5 Docket No. DMEA 3689 RECEIVED Contract No. Idn-E 790
Operator's Name Zeb Angel JAN 11 1956 Minerals Mica
Address Box 91, Franklin, N. C.
Contract Amount, $ 5,276.00 Government Participation: 75 % Amount, $ 3,957.00

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		200.00	200.00			
Crosscutting						
Drifting (22ft)	704.00	480.00	1184.00			
5ft		2120.00	2120.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		116.00	116.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	704.00	2916.00	3620.00	704.00	2916.00	3620.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Jan 2, 1956 *Payee Zeb Angel

Per _____ 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:

$ 528.00

Signature Helen R. Muller
(Authorized Certifying Officer)

Date JAN 6 1956 Vou. No. 42
(See other side)

176.00

(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. E-790 in accordance with the terms of the contract.

Signature V. J. Kynch Title Mining Eng. Date 1-4-56.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date JAN 4 1956

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

RECEIVED
JAN 11 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Dec. 1955 Docket No. DMEA 3689 Contract No. Idm-N 790
Operator's Name Zeb Angel Minerals Mica
Address Box 91, Franklin, N. C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	ft	704.00	22	1184.00	37	32.00	80	32.00
Crosscutting								
Raising								
Shafts	ft			2120.00	53	40.00	60	40.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Bulldozing	hrs			200.00	20	10.00	20	20.00
TOTAL DISTRIBUTED COSTS		704.00		3504.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				116.00				116.00
TOTAL COSTS		704.00		3620.00				116.00

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 Jan 2, 1956 Operator Zeb Angel

Per Title Opr.

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)

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

OPERATOR'S
MONTHLY REPORT FOR
THE MONTH OF
DECEMBER, 1955

RECEIVED
JAN 11 1956

Zeb Angel, Operator
Box 91, Franklin, N. C.

Contract No. Lin-X 790
Docket No. DMMA 3689

December:

1. Timbering - Mr. Hall, State Mining Inspector, visited mine.
2. no work
5. Drilled and shot - mucked out - shot destroyed timbering, so retimbering necessary.
6. Drilling, shooting, mucking - some mica in top - pygmatite very hard in bottom.
7. Drilling, shooting, mucking - vein in a curve to the right
8. Drilling, shooting, mucking - vein very hard; no mica
9. Drilling, shooting, mucking - recovered around 100 lbs of mica
12. no work
13. Drilled - shot and mucked out - no mica
14. no work
15. Mr. Shirley, Taylor and Birgeman visited mine
16. no work (cold)
19. Drilled shot and mucked out - vein bearing back to left.
20. Drilled shot and mucked - a little mica
21. Drilled shot and mucked - a little mica
22. Drilled shot and mucked - a little mica
23. Drilled shot and mucked - a little mica
26. no work
27. drilled shot and mucked
28 drilled shot and mucked
29. Started drilling in morning and compressor broke down.

Zeb Angel

RECEIVED
JAN 1956
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

Hopkins

RECEIVED
DEC 27 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

Operator: Zeb Angel, P.O. Box 91, Franklin, N. C.

Location: East of Dean and 2 1/2 miles (airline) N. 35° E. of Franklin, Macon County, North Carolina

Drifting continues on this contract and is now at 25 feet. The work is being conducted to the northeast and is following closely the section between the hanging wall contact and a quartz core. The core is best exhibited on the southeast wall and in the roof section of the drift. The biotite gneiss contact strikes N. 70° E and dips 70° NW at the shaft bottom and at a point near the present face which appears to be an inclusion. None of the mica from this last work has been observed, but the Operator reports that it is stained and bent badly. An effort will be made to see all mica recovered on the next trip to the area.

Progress on this contract is satisfactory.

December 15, 1955

L. E. Shirley, Mining Engineer
Bureau of Mines

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

DMEA 3689

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible], 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $[illegible]

RECEIVED 3689 DEC 12 1955

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		[illegible]	[illegible]			
Bulldozing						
Crosscutting	[illegible]	[illegible]	[illegible]			
Drifting	[illegible]	[illegible]	[illegible]			
[illegible]						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs		[illegible]	[illegible]			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	920.00	1996.00	2916.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date [illegible] *Payee [illegible]
Per [illegible] Title [illegible]

*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:

$ 690.00

Signature Helen R. Muller
(Authorized Certifying Officer)
Date DEC 8 1955 Vou. No. 4
(See other side)

130.00

(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. E790 in accordance with the terms of the contract.

Signature Sheldon C. Berryman Title Geologist Date DEC 7 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
DEC 12 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 195 5 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Zeb Angel Minerals [illegible]
Address Franklin, N. C., Box [illegible]

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	ft	[illegible]	15	[illegible]	15	[illegible]	60	[illegible]
Crosscutting								
Raising								
Shafts	ft	[illegible]	21	[illegible]	53	[illegible]	60	[illegible]
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Bulldozing	hrs			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS		[illegible]		[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				[illegible]				[illegible]
TOTAL COSTS		[illegible]		[illegible]				[illegible]

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 Dec. 1, 1955 Operator Zeb Angel

Per _____ Title Operator

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Sheldon C. Bergman
12/7/55

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

OPERATOR'S
MONTHLY REPORT FOR
THE MONTH OF
NOVEMBER, 1955

Zeb Angel, Operator
Box 91, Franklin, N. C.

RECEIVED
DEC 13 1955

Contract No. Idm-M 790
Docket No. DMA 3689

November:

1. Timbered escapeway, drilled and shot.
2. Mucked out - 8½ ft of vein in shaft.
3. Drilled, mucked and shot.
4. Worked on pump.
5. Shot and mucked out.
8. Worked on pump.
9. Pump broke down.
10. No work
11. Run electric line to the mine site.
12. Installed electric pump.
14. Rain - no work
15. Drilled and shot - shaft 30 ft. level, sump 3 ft. deep - started drift.
16. Drilled and shot - mucked out - recovered some mica.
17. Drilling and shooting- some mica. - Mr. Shirley, Mr. Taylor and Mr. Burgess visited mine.
18. Shooting, mucking out and drilling.
21. Timbered mouth of drift.
22. Timbered mouth of drift.
23. Rain
24. Holiday.
25. No work.
28. Shooting and mucking.
29. Shooting and mucking - one-half day, drift nov 15 feet. - recovered in the drift about 400 lbs of mica.
30. Too cold to work.

Zeb Angel, Operator

600

November 30, 1955

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Amendment No. 1 - Docket No. DMEA-3689 - Mica
Zeb Angel
Zeb Angel Mine
Mason County, North Carolina
Contract No. Idm-2790

The Nonmetallic Minerals Division concurs in Amendment No. 1 to the subject contract as written and executed in the Field. This amendment extends the completion date from November 15, 1955, as first written in the original contract to April 28, 1956, which is twelve months from the date of the contract.

Amendment No. 1 is necessary because of a delay in the work due to illness of the Operator.

/s/

James Hopkins
Nonmetallic Minerals Division

JHopkins:ad 11/30/55
Copy to: Admr. R. File
Mr. Houk
Mr. Hopkins

Hopkins

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

OPERATOR: Zeb Angel, P. O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N35°E of Franklin, Macon Co., N. C.

Shaft sinking is nearing completion on this contract and is now at 50 feet. The operator was instructed to sink a sump an additional 3 feet as soon as turnoff is complete and it is practical to do so. Turnoff has been made to the northeast, and 6.5 feet of drift have been driven near the hanging wall of a thick pegmatite body that strikes N70°E and dips 70°NW. Material encountered in the drift is pegmatite composed of kaolinized feldspar, a quartz core 2 to 3 feet thick and small, to medium sized crystals of muscovite mica. About 150 pounds of questionable quality mica was observed in the tool house. The operator was advised to continue the drift to the southeast. Recent progress on this contract is satisfactory.

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

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

November 17, 1955

Houk

600

November 30, 1955

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Amendment No. 1 - Docket No. DMEA-3689 - Mica
Zeb Angel
Zeb Angel Mine
Mason County, North Carolina
Contract No. Idm-8790

The Nonmetallic Minerals Division concurs in Amendment No. 1 to the subject contract as written and executed in the Field. This amendment extends the completion date from November 15, 1955, as first written in the original contract to April 28, 1956, which is twelve months from the date of the contract.

Amendment No. 1 is necessary because of a delay in the work due to illness of the Operator.

/S/
James Hopkins
Nonmetallic Minerals Division

JHopkins:ad 11/30/55
Copy to: Admr. R. File
Mr. Houk
Mr. Hopkins

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

November 21, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region V

Subject: Amendment No. I - Idm-E790, DMEA-3689, Zeb Angel (mica) N. C.

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

Robert A. Laurence

ZM.
cc:
Lynch
Finance Office
Shirley
Files

RECEIVED
NOV 23 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

OPERATOR: Zeb Angel, P. O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, Macon County, North Carolina

Shaft sinking has been resumed after a brief delay caused by the illness of the operator. Total taped depth is 45.5 feet. Recommended timber work in the manway has been accomplished since the last interim report. The bottom contained water and was not examined, but the operator reports that he is continuing to sink in pegmatite. Another visit will be made to this mine in the near future.

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

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

November 4, 1955

RECEIVED
NOV 14 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

OPERATOR: Zeb Angel, P.O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N35°E of Franklin, Macon County, N. C.

Vertical shaft sinking continues slowly on this contract and is now at 43 feet. Recent work has been hampered by inability to handle water in the shaft. A pump has been installed during the past week, and sinking has resumed. Pegmatite was observed on the southwest side and in the bottom of the shaft. Mica recovery is scant.

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

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

August 12, 1955

RECEIVED
AUG 2 1955

RECEIVED
AUG - 8 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

OPERATOR: Zeb Angel, P. O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N35°E of Franklin, Macon Co., N. C.

Vertical shaft sinking continues on this contract and is now at 40 feet. Most of the work to date has been in pegmatite, and the present bottom shows pegmatite on the southwest side of the shaft, thickness unknown, and a stringer in the northeast corner. Some mica has been recovered from shafting, but nearly all observed contains "A" structure and is clay and mineral stained. The body is weathered at the present depth. The operator was advised to continue sinking until another visit can be made. Several suggestions were made concerning necessary timber work on the separated partition and ladder ways.

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

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

July 29, 1955

Form [illegible]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

Month of JULY, 195 5 Docket No. DMEA 3609 Contract No. 1Gn-L 790

Operator's Name Bob Angel Minerals Ilco

Address Box 91, Franklin, N. C.

Contract Amount, $ 5,276.00 Government Participation: 75% Amount, $ 3,957.00

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		200.00	200.00			
Crosscutting						
Drifting Shaft 15 ft	600.00	1050.00	1650.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	116.00	0.00	116.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	716.00	1200.00	1996.00	716.00	1,280.00	1,996.00

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

Date July 30, '55 Payee

Per Bob Angel 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:

$537.00

Signature Helen R. Miller (Authorized Certifying Officer)

Date AUG 2 1955 Vou. No.

(See other side)

179.00

(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. E790 in accordance with the terms of the contract.

Signature Kepton H. Teague Title Geologist, U.S.G.S. Date 8/1/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date AUG 1 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
1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

PAID ON VOUCHER & SCHEDULE OF PAYMENTS No.

RECEIVED

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

AUG - 4 1955

Month of July 5 195 Docket No. DMEA 3689 Contract No. Idm-E 790

Operator's Name Zeb Angel Minerals Mica

Address Box 91, Franklin, N. C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	ft	600.00	15	1680.00	42	40.00	60	40.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Bulldozing	hours			200.00	20	10.00	20	10.00
Total Distributed Costs		600.00		1880.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		116.00		116.00				116.00
Total Costs		716.00		1996.00				116.00

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

Date July 30, 1955 Operator

Per Zeb Angel 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.

(Instructions on reverse)

Remarks:

(For Government use only)

Lefton 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

OPERATOR'S
MONTHLY REPORT
for the
MONTH OF JULY, 1955

Zeb Angel, Operator
Box 91, Franklin, N. C.

Contract No: Idm-E 790
Docket No. DMA 3689

July:
5 - Building tool house
6 - Finished tool house and worked on 5th pole
7 - Timbered, digging and mucking out - vein in 1/3 of shaft
8 - Timbered, digging and mucking out
11 - Mr. Teague, Mr. Ames, and Mr. Shirley visited mine - timbering and working on hoist
12 - Rain
13 - Working on shaft
14 - Timbering and working in shaft - Mr. Beck visited mine 1 ½ feet of vein on north side of shaft.
15 - Timbered and digging in shaft - vein come in from south side and nearly covered shaft.
18 - Digging mucking and timbering - walling come into center of shaft - recovered about 10 lb of mica from south side.
19 - Vein on both side of shaft - hard in center - drilling
20 - Drilling and shooting - vein dipping back to the south side.
21 - Drilled
22 - Drilled and shot - worked on powderhouse and exploder magazine
25 - Mucked and finished powder house and exploder magazine
26 - Drilled
27 - Drilled and shot
28 - Mucked out one hour - fumes too bad to continue working
29 - Mucked out - Mr. Teague, Mr. Ames and Mr. Shirley visited mine - vein on south side dipping north-5 feet in shaft now; wall between two veins is six feet; some mica on the edge of south vein - abundance of water.

Zeb Angel, Operator
Zeb Angel

RECEIVED
JUL 25 1955

INTERIM REPORT

DMRA-3689, Idm-E790 (mica) ZEB ANGEL MINE

OPERATOR: Zeb Angel, P. O. Box 91, Franklin, North Carolina

LOCATION: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, Macon County, N. C.

Vertical shaft sinking continues slowly on this contract, and is now at 28 feet. The shaft bottom contained water and could not be examined. The dump material examined did not show a change in material encountered. Recent progress has been hampered by considerable wet weather in the area, and the construction of hoisting facilities at the mine.

The operator was advised to continue sinking until another visit can be made to the mine.

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

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

July 11, 1955

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

Budget Bureau No. 42-R1036.5

RECEIVED
JUL 11 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Feb April 1953 Docket No. DMEA 3009 Contract No. 20-C 790
Operator's Name Des 92, Lucedale, U. S.
Address 3,957.00 75 Minerals 3,957.00
Contract Amount, $ Government Participation: % Amount, $

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		200.00	200.00			
Bulldozing						
Crosscutting						
Drifting (25) 27	1000.00	-	1000.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(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):						
	1000.00	200.00	1200.00			
TOTALS				1080.00	200.00	1280.00

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

Date 7-7-55 *Payee Gil Angel
Office Operator
Per Title

*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:

$ 810.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date 7-7-55 Vou. No.
(See other side)

270.00

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of JULY 1955 Docket No. DMEA 3609 Contract No. Ian-3 790

Operator's Name Zeb Angel Minerals Mica

Address Box 91, Franklin, North Carolina

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								10.00
Shafts	ft	1080.00	27	1080.00	27	40.00	60	[illegible]
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Building	hours			200.00	20	10.00	20	10.00
TOTAL DISTRIBUTED COSTS				1280.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS				1280.00				

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

Date July 2, 1955 Operator Zeb Angel

Per _____ Title Opr

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Keffton 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

OPERATOR'S
MONTHLY REPORT
FOR THE
MONTH OF JUNE, ~~xxxx~~ 1955

Zeb Angel, Operator
Box 91, Franklin, North Carolina

Contract No: Idm-E 790
Docket No. DMEA 3689

June:

6th - Started shaft, using three men
7 - worked on shaft
8 - rain
9 - worked on shaft
10 rain - no work
13 worked on shaft, no rock, pegmatite on all area, some mica field team visited workings - Mr Teague, Mr. Amos, Mr. Shirely, and Mr. O'Neal.
14 timbered shaft - now 15 ft deep
15 timbered
16 no work
17 no work
20 timbered and mucked out
21 timbered and mucked, and digging - vein dipping to North
22 digging, mucking out and timbering - vein still dipping North - 2 ft from walling on South side
23 digging and mucking and timbering - veing still pitching north, three ft from south wall
24 digging and mucking and timbering - veing five ft from South wall
27 digging and mucking and timbering and put in scaffold
28 digging, mucking and timbering
29 moved hoist - cut boom pole and "jim" pole - shaft is 27 foot - Mr. Teague and Mr. Amos visited workings - around 2 ft of vein left in shaft - they advise an incline shaft in order to stay on vein for rest of shaft.

Zeb Angel

Zeb Angel, Operator

RECEIVED
JUL - 8 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

Operator: Zeb Angel, P.O. Box 91, Franklin, North Carolina

Location: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, N. C.

Vertical shaft sinking continues on this contract and now totals 27 feet. About 3 feet of pegmatite is exposed in the northeast side of the shaft bottom; the remainder being semi-weathered mica gneiss. The body strikes about N. 40° W. and dips 65° to the northeast. Mica recovered to date has been largely "flat-A" and of rather poor quality.

The Operator was advised to incline the shaft to the northeast in order to sink on the pegmatite.

Progress and the work completed to date are satisfactory.

Date of Inspection: June 29, 1955.

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

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9 74

RECEIVED
JUN 23 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

Operator: Zeb Angel, P. O. Box 91, Franklin, North Carolina

Location: East of Dean and 2½ miles (airline) N. 35° E. of Franklin, Macon County, N. C.

Shaft sinking is underway on this contract and now totals 14 feet. The entire opening is in pegmatite which is rich in mica. It is badly curved and cracked and much is of value only as scrap. About 400 pounds of "mine-run" have been recovered to date.

The Operator was advised about timbering of the shaft.

Progress and the work completed to date are satisfactory,

Date of Examination: June 13, 1955

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

L. E. Shirley and J. F. O'Neill, Mining Engineers
U. S. Bureau of Mines

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 68

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of MAY, 1955 Docket No. DMEA 3699 Contract No. Idm-E 790

Operator's Name Zeb Angel Minerals Mica

Address Box 91, Franklin, N. C.

Contract Amount, $ 5,276.00 Government Participation: 75 % Amount, $ 3,957.00

RECEIVED JUN 1 6 1955

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 20 hrs	200.00		200.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(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	200.00		200.00	200.00		200.00

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

Date June 1, '55 *Payee Zeb Angel

Per _____ 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:

$ 150.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date 6-24-55 Vou. No. _____
(See other side)

50.00

(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. IdmE-79 in accordance with the terms of the contract.

Signature Kenney H. Cross Title Geologist USGS Date June 6, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Laurence Title EXECUTIVE OFFICER DMEA REGION V Date JUN 13 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

RECEIVED
JUN 16 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of MAY 1955 Docket No. DMEA 3689 Contract No. Idm-E 790
Operator's Name Zeb Angel Minerals Mica
Address Box 91, Franklin, N. C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping 20 hrs	hrs	200.00	20	200.00	20	10.00	20	10.00
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		200.00		200.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		200.00		200.00				

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 June 1, 1955 Operator Zeb Angel

Per 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)

Wesley H. Amos
Geologist, USGS
June 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 872894

OPERATORS
MONTHLY REPORT
for the
MONTH OF MAY, 1955

RECEIVED
JUN 16 1955

Zeb Angel
Franklin, N. C.

DMEA-3689, Idm-E790 Mica

May:

23 8 hours of buldozing
24 8 hours of buldozing
25 4 hours of buldozing - the southeast end, cross-cut vein, cut approximately 6 feet deep - vein 14 feet wide. 50 feet below in the northwest end, cross cut vein approximately 18 feet deep; vein about 12 feet wide. Vein very rich in burr mica. Recovered around 300 pounds of scrap and block mica.

Zeb Angel

RECEIVED
JUN 13 1955

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

RECEIVED
JUN - 9 1955

June 7, 1955

Mr. Zeb Angel
Box 91
Franklin, North Carolina

Re: DMEA-3689 (mica)
Zeb Angel Mine, Macon County, N .C

Dear Mr. Angel:

This will confirm the verbal approval given by Mr. Teague and Mr. Amos on May 30, 1955 to begin work under Stage II of the subject exploration contract.

Very truly yours,

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

RAL/zm
cc:
Opr. Con.-2
Shirley
Lynch
Files

RECEIVED
JUN - 9 1955

INTERIM REPORT

DMEA-3689, Idm-E790 (mica) ZEB ANGEL MINE

Operator: Zeb Angel, P.O. Box 91, Franklin, North Carolina

Location: East of Dean and 2 1/2 miles (airline) N. 35° E. of Franklin, Macon County, N. C.

Stage I of this contract has been completed. Two trenches were bulldozed as follows: (1) a crosscutting trench about 75' x 12' x 6' deep trending northeast-southwest, and (2) southeast of this cut one was made along the strike of the pegmatite (northwest-southeast) about 80' x 22' x 15' deep. A zoned vertical pegmatite up to 19 feet thick was exposed by these trenches. It has a quartz core 2-6 feet thick enclosed by a zone of weathered perthite, plagioclase, quartz and muscovite. Plagioclase and muscovite are more abundant on the southeast end of the body.

About 200 pounds of "mine-run" mica of fair quality were recovered from the bulldozing. It is recommended that Stage II of the contract be undertaken.

A shaft site was located about the middle of the cut that was made along the strike of the body.

Date of Examination: May 30, 1955

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 5 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

May 4, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region 5, Knoxville, Tenn.

Subject: Signed Contract- Idm-E790, DMEA-3689, Zeb Angel (mica)

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

V. J. Lynch

Enc.
Enc.
cc:
Lynch
Finance Office
Shirley
Files

APR 2 8 1955

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

Subject: Docket No. DMEA-3649 - Mica
Zeb Angel
Zeb Angel Prospect
Mason 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 cannot be amended within your delegated authority, then the original and all copies of the contract are to be returned to this office, together with the proposed changes for consideration.

After execution of the contract, the copies are to be distributed in the usual manner. Copies of memoranda from E. L. Newcomb of the Geological Survey, dated March 16, 1955, and from W. F. Dietrich of the Bureau of Mines, dated March 22, 1955, are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:
/s/ Robert W. Geehan

Member, Bureau of Mines
Thor H. Kiilsgaard

Member, Geological Survey

Enclosures 10

JHopkins:ad 4/22/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

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

March 22, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3689 (mica)

Applicant: Zeb Angel

Name and Location of Property: Zeb Angel Mine
Macon County, North Carolina

Date of Field Team Report: March 10, 1955

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: March 16, 1955

Field Team Recommendation:

1. Approval of a contract.

Comments:

1. Mica exposed on the mine dump is of strategic quality.
2. Stage II should not be conducted if Stage I is not favorable.
3. Total estimated costs are in the amount of $5,433.

Recommendation:

I concur in the field team's recommendation to approve a contract in the amount of $5,433.

Signed

W. F. Dietrich

600

MAR 2 5 1955

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

Subject: Docket No. DMEA-3689 - Mica
Zeb Angel
Zeb Angel Prospect
Macon County, North Carolina

Dear Mr. Lawrence:

Reference is made to the field examination report dated February 28, 1955, on the subject property.

It is noted that two crosscutting trenches are recommended for Stage I by the examiners, one at each end of the prominent quartz vein outcrop. Since the object of trenching will be to locate the most favorable place along the outcrop to sink a shaft, we believe that, in this instance, trenching along the well-defined strike of the pegmatite between the two old shafts may be more effective and give us more valuable information. Then, if trenching is not fully conclusive, a series of shallow test pits may be necessary. In any case, we believe that a proposal should carry a provision to resort to test pitting to more fully confirm trenching work.

The field team report also recommends a 60-foot shaft on the pegmatite and 80 feet of drifts if justified by the results of trenching. It is our opinion that sinking should not be limited to 60 feet if the shaft is still in pegmatite at that depth, but that provision should be made to allow a portion or all of the authorized drifting footage to be converted to shaft sinking to more fully explore the target.

We would like to have your views on the above suggestions and if you agree we will draft a contract embodying them. Frequently your property sketches are incomplete; therefore it will be appreciated if all future sketches accompanying proposals contain a legend.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Mr. Kiilsgaard, 5222
Mr. Dieterich, 3061
Mr. Houk

JHopkins:sd 3/23/55
Copy to: Admr. R. File
Docket
Operating Committee

IN REPLY REFER TO:

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

March 16, 1955

Re: DMEA-3689
Zeb Angel
(Zeb Angel Mine)
Macon Co., N. C.
$5,433 - Mica

Memorandum

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

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

Subject: Review of proposed exploration project

The Field Team has recommended a two-stage project for approval. Stage I will consist of trenching and, if the results are favorable, Stage II will be undertaken. This latter Stage will include a 60 foot shaft and an 80 foot drift.

A series of old pits, shafts and trenches were developed along the trend of a continuous pegmatite which is at least 600 feet long. The width of the pegmatite ranges from 5 to 20 feet, but the northwest part of the pegmatite has an average width in excess of 10 to 12 feet. The mica-bearing zones occur on both sides of a prominent quartz core; however, thorough decomposition has occurred near the surface. Material in the dumps suggests that the mica books are less than 3 inches in diameter. Past production has been small.

The size of the pegmatite and the abundance of mica in the old dumps is sufficient evidence to justify the Stage I trenching. The proposed underground work should not be done unless trenching exposes unweathered mica-bearing zones which are inferred to be present near the quartz core.

I recommend the proposed two-stage project be approved.

E. L. Newcomb

ELNewcomb:hlm
G-3/16/55

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

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

March 15, 1955

Memorandum

Department of the Interior
Defense Minerals Administration
RECEIVED
MAR 16 1955

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3689 (mica)

Applicant: Zeb Angel

Name and Location of Property: Angel Prospect
Macon County, North Carolina

Date Application Rec'd. by Br. of Ceram. & Fert. Mat.: Feb. 21, 1955

Comments:

1. No map attached to copy of application received by this office.

2. Proposed exploration is not explicit.

3. Applicant appears to have sufficient experience in mica mining.

4. No definite exploration plan has been submitted by the applicant, nor an estimated cost of the project.

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
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 205 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

Department of the Interior
Defense Minerals Administration
RECEIVED
MAR 11 1955

March 10, 1955

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report, DMEA-3689 (mica) Zeb Angel, Franklin, North Carolina

Enclosed are four copies of the subject examination report and six extra copies of the sketch map. The examination was made in advance of field referral, when our field men were in the area on other inspections.

We recommend approval of a two-stage contract, as outlined in the report. The deposit certainly merits the small expense of Stage I, in order to determine whether further work is justified. It is suggested that the word "approximately" be inserted after "trenches" under Stage I, in preparing exhibit "A" of the contract.

Please note that the sketch shows the approximate property line, near the east edge. It cannot be located any more accurately; even the applicant does not know exactly where it is, and a surveyor would have difficulty in locating it any more accurately. It is common in the rural counties of North Carolina for leases, deeds, etc., to be drawn without precise surveys. In this case, an originally much larger tract was subdivided among several heirs, without benefit of surveys. The field examiners are satisfied that the lease area is large enough for the project.

The cost of obtaining accurate surveys, if it is to be done by our field men, would far exceed the benefits to be derived and would hinder their useful field work. The value of such surveys appears to us to be in the same category as the value of title searches. If accurately surveyed property boundaries are to be required, the applicant should be advised, as soon as his application is submitted, that no field examination will be made until he provides us with a survey of his propety, made at his own expense. This will, of course, discourage applications, and reduce the number of contracts, and we do not consider it advisable.

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

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 11 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT BY FIELD TEAM
REGION V

On

DMEA-3689, ZEB ANGEL (mica)
Macon County, N. C.

BY

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

and

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

February 28, 1955

FIELD TEAM EXAMINATION REPORT
ON

DMEA-3689, ZEB ANGEL MINE
(mica)

Applicant: Zeb Angel, Franklin, North Carolina

Limited prospecting and a little mining has been conducted on this pegmatite since about 1890. The deepest workings have probably not exceeded 25-feet in depth. Mica exposed in the dump material is of strategic quality. The examiners recommend exploration assistance, to be conducted in two stages.

The deposit was examined on February 28, 1955. Messrs. Zeb Angel and Charlie Bradley accompanied the examiners on the inspection which required two hours.

The Zeb Angel Mine is a few hundred yards east of Dean, 2 1/2 airline miles N. 35° E. of Franklin, Macon County, North Carolina. Access is excellent at all times.

The applicant has considerable mica mining experience and is competent to conduct the proposed work.

This property is leased by the applicant. The attached sketch shows the only property line which lies within the immediate vicinity. Area under lease is adequatefor the proposed work.

A series of pits, shafts, and trenches, now caved, and mostly inaccessible, extend for at least 600 feet along a northwest trending pegmatite. This application concerns the northwest 300 feet of the pegmatite. The width of the zone explored ranges from 5 to 20 feet and is greatest near the northwest part where a 10 to 12-foot thick mass of granular white quartz crops out for a length of about 150 feet. The outcrop of the quartz core is confined to the leased area. Pits have been dug on both sides of the quartz core.

Except for quartz and quartz-rich "burr-rock," all pegmatite observed is thoroughly decomposed. Most books of mica on the dump are weathered and do not exceed three inches in diameter, but some of the weathered books are flat and clear. At one place the impression of a mica book in the quartz core is 8 inches in diameter.

The pegmatite trends N. 65° W. and dips vertically. Nothing can be determined as to the distribution of mica in the pegmatite because of the absence of exposures. Apparently mica occurs adjacent to the core and probably in a wall zone. This assumption is based on the distribution of mica

in the pegmatite as exposed in a shaft which is about 200 feet southeast of the property line.

This pegmatite has been worked by Zeb Angel, Herman Dean, and A. W. Reid at various intervals since about 1890. Production has been small.

Exploration to be conducted in stages appears to be warranted. The examiners recommend that stage I consist of two crosscutting trenches, one to be located at the northwest end and one at the southeast end of the large quartz core. These trenches should be 75' x 12' x 10' and should give adequate evidence as to whether additional work is justified. If additional work is warranted Stage II should consist of a 60-foot shaft on the pegmatite and 80 feet of level work.

Estimated Cost:

Stage I

Cut 2 bulldozer trenches 75' x 12' x 10'		
Bulldozer, 20 hrs. @ $10/hr.		$200.00

Stage II

Construct toolhouse		75.00
Powder Magazine		25.00
Exploder "		13.00
Sink 60-foot, 5' x 7' shaft, timbered where necessary (30 shifts)		
Labor:		
1 - Miner @ $1.50/hr.	$360.00	
1 - Hoistman @ $1.25/hr.	300.00	
1 - Laborer @ $1/hr.	240.00	
Equipment (rental)		
Compressor, 1 mo. @ $200/mo.	200.00	
Pump, 1 mo. @ $20/Mo.	20.00	
Drill, 1 mo. @ $20/mo.	20.00	
Hoist @ $50/mo.	50.00	
Supplies:		
Explosives	200.00	
Gasoline and oil	125.00	
Drill steel	100.00	
Timber, 4000 b.f. @ $65/M	260.00	
Small tools & pipe	125.00	
Miscellaneous	150.00	
Insurance and Social Sec.	225.00	$2,400.00

Drive 80 feet of drift (30 shifts)

Labor:		
1 - miner @ $1.50/hr.	$360.00	
1 - Hoistman @ $1.25/hr.	300.00	
2 - Laborers @ $1/hr.	480.00	
Equipment (rental)		
Compressor @ $200/mo.	300.00	
Pump @ $20/mo.	30.00	
Drill @ $20/mo.	30.00	
Hoist @ $50/mo.	75.00	
Supplies:		
Explosives	250.00	
Gasoline and oil	200.00	
Drill steel	150.00	
Timber, 1,000 b.f. @ $65/M	65.00	
Small tools and pipe	125.00	
Miscellaneous	150.00	
Insurance and Social Sec.	205.00	$2,720.00
Estimated Total Cost.....		$5,433.00

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

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

Examined: February 28, 1955

IN REPLY REFER TO:

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

March 2, 1955

Re: DMEA-3689
Zeb Angal
(Angal Prospect)
Macon Co., N. C.
$5,775 - Mica

Memorandum

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

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

Subject: Review of application

The operator's proposal involves 60 feet of shaft sinking and 75 feet of drifting.

The application presents only a meager amount of data in support of the proposed exploration.

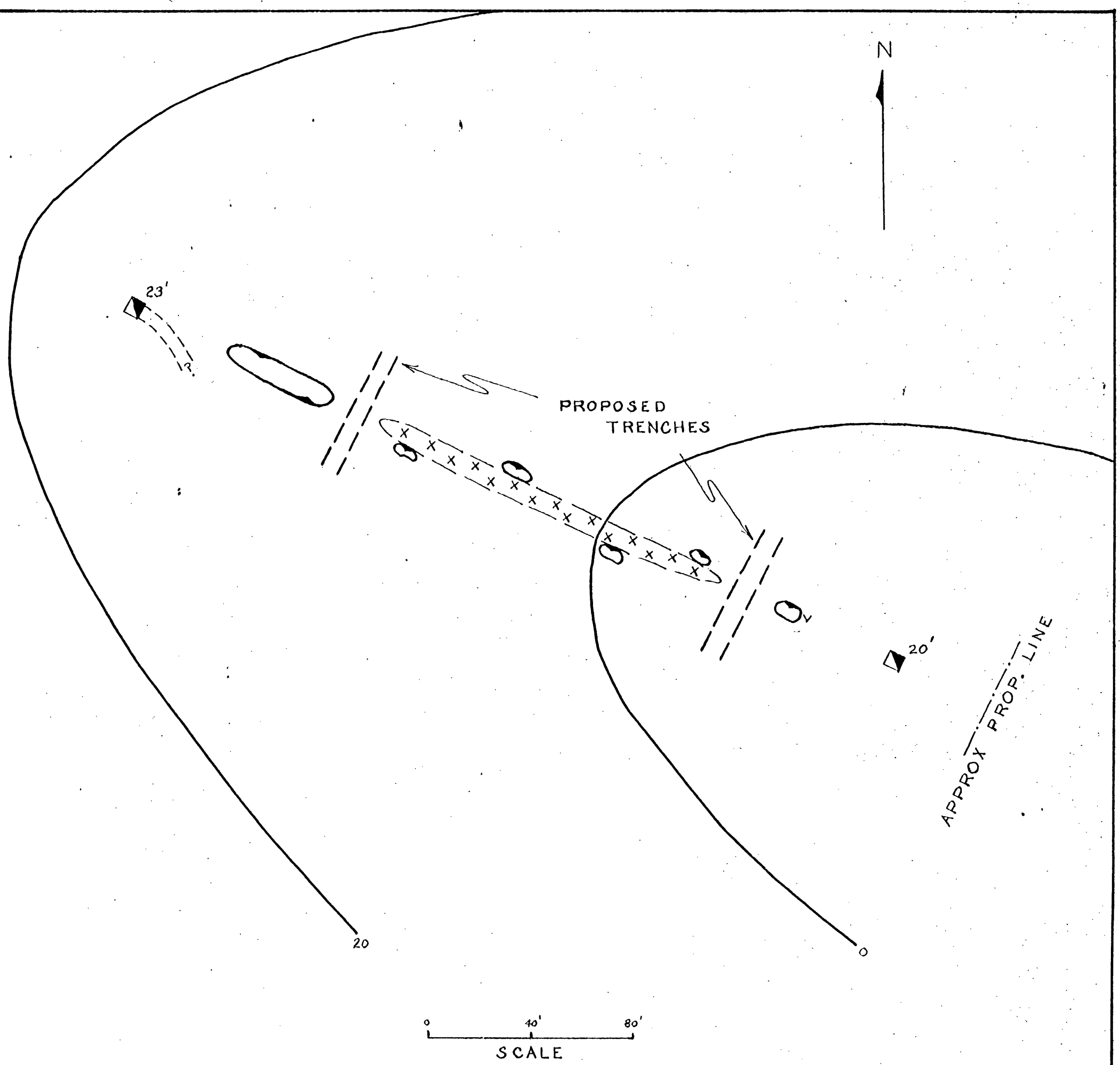
If the proposed shaft is warranted, we can assume an extensive area of exposed mica must be available for a geologic examination. Inasmuch as Mr. Angal has had previous exploration assistance from DMEA, it is possible that the Field Team is familiar with the project area.

I recommend this application be referred to the Field Team for a possible examination, if information available in their files indicates DMEA assistance may be geologically justified.

E. L. Newcomb

ELNewcomb:hlm
G-3/2/55

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



SKETCH OF
ZEB ANGEL MINE
MACON CO., N.C.

DMEA-3689 (mica)