DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE — Idm-E NO. 461 — DMEA NO. 2582

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [x] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [x] Royalty Audits
- [x] Certification of Discovery
- [x] Closing Letter
- [x] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [x] Contract Amendments
- [x] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [x] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [x] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [x] Interim Field Team Reports
- [x] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Division of Nonmetallic Minerals, Office of Minerals Exploration, Washington, D. C., pertaining to Contract No. Idm-R461, Docket No. DMEA-2582 (Mica), dated December 12, 1952, with

Zeb Angel
Franklin, North Carolina

for the purpose of determining the amount of royalty due the U. S. Government on sales of minerals from property referred to as Kasson Mine located in Macon County, North Carolina, during the period March 10, 1955, through May 7, 1959.

A certification of discovery or development was issued on June 21, 1954, and accordingly royalty is payable on all production from the land described in Article 2 of the contract for a maximum period of 10 years from the date of the contract. A Report of Review in lieu of final audit dated April 6, 1954, indicated accepted costs under the exploration contract amounting to $8,924.00 with the Government's contribution, on a 90 percent basis, being $8,031.60.

A prior report of royalty review dated March 21, 1955, indicated total sales subject to Government royalty amounting to $55.48 for the period December 12, 1952, through March 9, 1955, and that the royalty due to the Government amounting to $2.77 had been paid. No royalty has been received by the Government applicable to this project since the latter date.

This review was made in lieu of an on-site royalty audit of the Operator's accounts and records for the following reasons:

(1) Periodic inspections by a representative of the Field Team, Region V, have failed to disclose any evidence of production or sales from the property during the period covered by this review, and

(2) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

C. E. Fisher, OME Auditor

May 13, 1959

MME Form 22
April 59

DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

CHECK SHEET OF EXAMINING ENGINEER

Operator's Name Zeb Angel

Address Franklin, North Carolina

Exploration Contract No. Idm-E461 Docket No. 2582

		Check One: Yes	Check One: No.
1.	(a) Does the Operator stockpile ore subject to royalty repayment?		✓
	(b) If so, is segregation and identification procedure adequate?		
2.	(a) Does Operator commingle production subject to DMEA or OME royalties with exempt production?		✓
	(b) If so, do you consider the allocation of the commingled production equitable?		
3.	(a) Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		✓
	(b) If so, are adequate records maintained on such material to protect the Government's interest?		
4.	Do you consider the assay controls in effect are adequate?	✓	
5.	Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	✓	
6.	Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA or OME royalties?	✓	
7.	Does the Operator buy from or sell to other Operators?		✓
8.	Comment on any item 2 (b) to 6 if answer is No.		

5/7/59
Date

V. J. Lynch
Mining Engineer

53362

Anderson

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF SECOND ROYALTY REVIEW

I have reviewed all copies of settlement sheets on file with the Executive Officer, DMEA Field Team, Region V, applicable to royalties collected on the sales of mica for the period December 12, 1952, to March 9, 1955, by:

Zeb Angel
Franklin, North Carolina

produced from property referred to as the Kasson Mine located in Macon County, North Carolina, under terms of Contract Idm-E461, Docket No. DMEA-2582.

My review included a conference with Mr. William A. Beck, Mining Engineer, U. S. Bureau of Mines, Knoxville, Tennessee, who is thoroughly familiar with the project.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) This account was previously reviewed by Mr. B. J. Brekhus as indicated by his Royalty Audit Memorandum dated July 28, 1954.

(2) A check of the records of the General Services Administration Mica Purchase Depot, Spruce Pine, North Carolina, did not disclose any sales of mica produced from that mine subsequent to the date of the prior review.

(3) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

The audit established the total sales of mica for this period to be $55.48. Royalty due the U. S. Government at the contract rate of 5 percent is $2.77. The royalty paid and balance due are as follows:

Total Royalties Due	$2.77
Total Royalties Paid	2.77
Balance of Royalties Due	$ -0-

C. E. Fisher
C. E. Fisher, Auditor

March 21, 1955

DOCKET FILE COPY
Surname:
Anderson
Hook
Talbert
Burris
Hedges
McCrystal or Thayer
Lethbridge
FG Johnson

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

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Bob Angel

Franklin, North Carolina

Pursuant to the provisions of Exploration Project Contract No. Em-2461, dated December 12, 1952 (Docket No. DMA-1582), hereinafter called the "contract" between you and the United States of America, hereinafter called the "Government": to establish and fix the Government's percentage royalty on production and its lien thereon and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

The nature of said discovery or development is described broadly or indicated as follows:

> A zoned pegmatite was explored on the 80-foot level by drifting and long-hole drilling. The exploration work encountered scattered pegmatitic and quartz lenses and stringers in biotite gneiss from which strategic mica was produced.

THE UNITED STATES OF AMERICA

By C O Mittendorf
Administrator, Defense Minerals
Exploration Administration

Dated: JUN 21 1954

WCanderson:gmd 6/15/54
Copy to: Mr. Irving Gumbel, EPS, GSA — Field Team, Region VII
Macon Construction Co. (attached to Field Team's copy for forwarding to proper address)

Docket File
Admr. R. File
Operating Committee
Mr. Hedges, 4604
Mr. Hook
Mr. Thayer, 5216 GSA Bldg.
Finance Office
Mr. Chambers
Mr. Johnson

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
2/13	Murphy	500
	[illegible]	500
2/14	[illegible]	800
	Selfridge	126
2/14	Johnson	110
2/[illegible]	[illegible]	100
		320

FEB 14 1963

Messrs. E. J. Whitmire and Fred A. Moore
d/b/a Macon Construction Company
Franklin, North Carolina

Re: DMEA-2582 (Mica)
Zeb Angel
Kassen Mine
Macon County, N. C.
Contract Idm-E461

Gentlemen:

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development dated June 24, 1954, all minerals mined or produced from December 12, 1952, to December 12, 1962, were subject to the Government's royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom.

Sincerely yours,

George Fumich, Jr.

(pt)

Director

FMMurphy/mm
2/13/63
cc: Director's Reading File
CA&A Division
Region IV (2)
Docket
Code 500

43683

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Zeb Angel

Franklin, North Carolina

pertaining to Exploration Project Contract No. Idm-E461, Docket No. DMEA-2582, including Amendments Nos. 1, 2 and 3, for the period of December 29, 1952 to February, 1954, inclusive, covering a project for the exploration of mica in Mason County, North Carolina on property known as the Kanson Mine.

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, consultation with the Executive Officer of the Regional Field Team, verification of work performed by reference to final field team report, 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:

> the contract provides for payment by the Government on the basis of agreed estimated costs of units 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		$8,924.00
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$8,924.00

The contract calls for a 90 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Eight thousand thirty-one and 60/100 Dollars,

"$8,031.60"

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

E. D. Talbert

E. D. Talbert, Auditor

April 6, 1954

Docket Copy

Rec'd 2-2-54

EXPLORATION PROJECT CONTRACT
ZEB ANGEL
DOCKET NO. DMEA-2582

Amendment No. 3

Contract Idm-E 461, DMEA-2582, dated the 12th day of December 1952, between the UNITED STATES OF AMERICA, Acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and ZEB ANGEL, hereinafter called "Operator," is amended as follows:

Article 3 is amended to provide that the Operator is to complete the project within a period of sixteen (16) months instead of twelve (12) months as written in Amendment No. 2 dated July 22, 1953.

Justification: Operator was unable to complete in the specified time because equipment and personnel were needed at the Quisenberry Mine (DMEA-2974).

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 costs which the Government may be obligated to pay, under the provisions of Article 4 of the contract form.

December 4, 1953.

ZEB ANGEL

By Zeb Angel

THE UNITED STATES OF AMERICA

By Robert A. Lawrence
Executive Officer, DMEA, Region 7

SM

Docket Copy

EXPLORATION PROJECT CONTRACT
ZEB ANGEL
DOCKET NO. DMEA-2582

AMENDMENT No. 2

It is agreed this 22nd day of July, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Zeb Angel, each acting in consideration of the agreement of the other to the terms hereinafter set forth, that Exploration Project Contract Idm-E461, Docket No. DMEA-2582, dated December 12, 1952, as amended, between the parties hereto, be further modified and amended as of said date as follows:

1. Annex No. II amending Article 6 of the contract form is attached hereto and made a part hereof.

2. In Article 3, the words "6 months" are hereby changed to read "one year."

3. In Article 4, the figures "$6,210.00" and "$6,900.00" are changed, respectively, to "$8,280.00" and "$9,200.00."

4. Exhibit "A" is hereby changed to read as follows:

EXHIBIT "A"

Description of the Work

The object of this contract is mica exploration; and the Government will specify the location, direction, and extent of all excavations and drill holes.

The work will consist of:

Excavating 85.5 feet of shaft, 5 feet by 7 feet in cross section, divided into two compartments and located approximately as shown on the map entitled "Sketch of Kasson Mine - Macon Co., N. C. - DMEA-2582," attached hereto and made a part hereof. From the 80-foot level of the shaft, there will be crosscutting and drifting not to exceed 135 feet approximately as indicated on the map, but not in excess

of 60 feet of this crosscutting and drifting shall commence at a point 40 feet from the shaft and shall be driven in a direction S. 50° W.

At intervals along the back of the crosscuts, jackhammer test holes 15 to 20 feet in depth shall be drilled, but such drilling shall not exceed 200 feet.

Agreed Estimated Costs

Shaft excavation exclusive of timbering, 85.5 feet @ $42.00/ft.	$3,591.00	
Shaft timbering, 2" cribbing including materials and labor, 85.5 feet @ $8.00/ft.	684.00	
Drifting and crosscutting, 135 feet @ $35.00/ft.	4,725.00	
Drilling, 200 feet @ $1.00/ft.	200.00	
Total Cost of the Project		$9,200.00
Government Participation at 90%		$8,280.00

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C O Mittendorf
Administrator, Defense
Minerals Exploration
Administration

DeKone
Putin
Hook
Chandler

Zeb Angel

EXPLORATION PROJECT CONTRACT
ZEB ANGEL
DOCKET NO. DMEA-2582

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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AUG 6 1953

ANNEX II

The following provisions are in lieu of all of paragraph (a) of Article 6 which precedes the colon:

If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account required by the exploration project contract, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development. The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land which is the subject of the exploration project contract, 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 of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

Docket Copy

EXPLORATION PROJECT CONTRACT
Docket No. DMEA- 2582
Idm-E 461 (mica)
Zeb Angel (Kanson Mine)

CONTRACT AMENDMENT No. I

Contract Idm-E 461, DMEA- 2582, dated the 12 day of December 1952, between the UNITED STATES OF AMERICA, Acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and ZEB ANGEL, hereinafter called "Operator," is amended as follows:

Article 3 is amended to provide that the Operator is to complete the project within a period of 7 months from date of contract, instead of 6 months as written in the original contract.

This amendment is necessary because work on the project was much slower than anticipated due to difficulty in shooting hard rock.

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 costs which the Government may be obligated to pay, under the provisions of Article 4 of the contract form.

June 8, 1953

ZEB ANGEL

By Zeb Angel

THE UNITED STATES OF AMERICA

By: Robert A. Lawrence
Executive Officer, DMEA, Region 7

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 2582

COMMODITY Mica

Docket Copy
IDM-E 461

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 12th day of December, 195 2, 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
Franklin, North Carolina

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of North Carolina, County of Macon, described as follows:[3] mineral rights and mining privileges in
See Annex I

the Operator represents and undertakes:[4]

(*a*) That the Operator is the owner of ½ interest in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: None

(*b*) That the Operator is a lessee of ½ interest in possession and entitled to possession, and the Owner's Consent to Lien is attached.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for[5] Mica

in or upon the described land; and shall bring the project to completion within a period of 6 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $6,210.00, which is 90 percent of $6,900.00 the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or 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 ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

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

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

_____

_____

_____

_____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

ZEB ANGEL
(Operator)

By C. J. Mittendorf
Administrator, Defense Minerals Exploration Administration

By _____

_____

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]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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DEC 22 1952

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

ZEB ANGEL
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2582

ANNEX I

The property referred to in Article 2 consists of that certain tract of land (in which the Operator owns or leases all the mineral rights and mining privileges) described in a deed from R. S. Jones, Commissioner to Macon County, said deed bearing date of September 20, 1940 and registered in the office of the Register of Deeds for Macon County, North Carolina in Book V-4 at page 230.

The foregoing mineral rights and mining privileges are the same as those granted under the deed from Frank Sierema to the Operator dated June 5, 1952, as recorded in the office of the Register of Deeds for Macon County, North Carolina on page 506, Book A-6.

A half-interest in the above mineral rights and mining privileges was duly conveyed by the Operator to E. J. Whitmire and Fred A. Moore, copartners, doing business as Macon Construction Company, who, by instrument dated October 25, 1952, leased the same to the Operator for a period of three years with an option to purchase the same.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 22 1952

ZEB ANGEL
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2582

EXHIBIT "A"

Description of the Work

The object of this contract is mica exploration and the Government will specify the location, direction, and extent of all excavations.

The work will consist of:

Excavating 85.5 feet of shaft, 5 feet by 7 feet in cross-section, divided into two compartments and located approximately as shown on the map entitled "Sketch of Kasson Mine - Macon Co., N. C. - DMEA-2582" attached hereto and made a part hereof. From the 80 foot level of the shaft, there will be crosscutting and drifting not to exceed 75 feet approximately as indicated on the above map.

AGREED ESTIMATED COSTS

Shaft excavation exclusive of timbering - 85.5 feet @ $42.00 per foot	$3,591.00	
Shaft timbering - 2" cribbing - including materials and labor - 85.5 feet @ $8.00 per foot	684.00	
Drifting and crosscutting - 75 feet @ $35.00 per foot	2,625.00	
Total Cost of the Project		$6,900.00
Government Participation @ 90%		$6,210.00

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 22 1952

MF-203

OWNER'S CONSENT TO LIEN

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

A one-half undivided interest described in a deed from R.S. Jones, Commissioner, to Macon County, said deed bearing date of September 20, 1940 and registered in the office of the Register of Deeds for Macon County, North Carolina in Book V-4, page 230.

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/ Zeb Angel

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 6,210.00, or ten years have elapsed from the date of the contract.

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.

Dated this 10th day of December, 1952.

Macon Construction Co. [Seal]

By E.J. Whitmire, Manager [Seal] Partner

Zeb Angel [Seal]

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

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

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

DEC 22 1952
RECEIVED

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2582
Metal or Mineral
Date Received 6-16-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract BEING all the land conveyed by deed from Frank Siersma, on June 5, 1952, as recorded in the office of the Register of Deeds for Macon County, North Carolina on page 506, Book A-6 (mineral rights & mining privileges).

(*b*) State any mine name by which the property is known. KASSON MINE

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 16 1952

16—66551-1

5. *The exploration project.*—(*a*) [redacted]e the mineral or minerals for which you wis[redacted] explore STRATEGIC RUBY MICA

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

(*c*) The work will start within immediately upon signing contract days and be completed within 30 months from the date of an exploration project contract.

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

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

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

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

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

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

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

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

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

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

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

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

(*b*) How do you propose to furnish your share of the costs? Either in cash or may work in mine.

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated June 11th, 1952

(Applicant)

By

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

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

4. (a) Last work done was in 1911 by the Kasson Mining Co. (a large
(b) operation). Five (5) shafts, to depths of 90' were sunk into the
(c) pegmatite near the west end. A tunnel near the east end was
(d) extended into the vein nearly 200 feet. More than $25,000.00 worth
(e) of strategic ruby mica, with sheets up to 4" x 6", were sold at extremely low prices then prevailing. The vein is not less than 8 feet wide and well formed.

Property lies 1½ miles east of Franklin and is reached by good and easily accessable roads.

Manpower, materials, etc., are available for exploration.

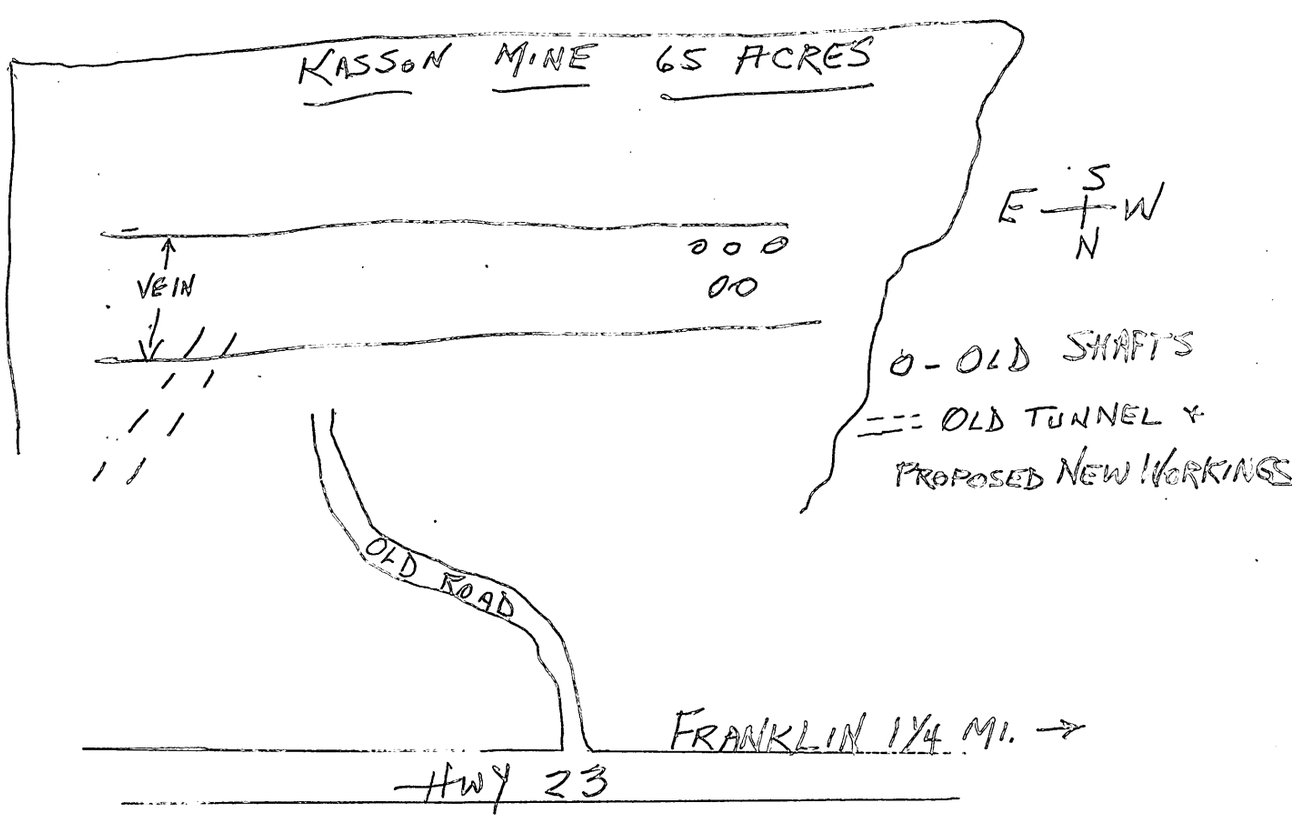
5. (b) It is proposed to clean out and retimber existing tunnel near east end to expose the vein for operation.

(d) Applicant has mined and processed mica and other minerals for more than 40 years. Is fully acquainted with all procedures and will supervise this exploration.

6. ESTIMATE OF COSTS:

3 Miners or muckers, 30 days each @ $8.00 per day each	$720.00
Timber for tunnel	200.00
Misc. Hand Tools	75.00
Payroll taxes	12.00
Insurance	45.00
Accounting & analytical work	75.00
TOTAL EXTIMATED COST	$ 1,127.00

- - - - -



NORTH CAROLINA
MACON COUNTY

THIS LEASE AND OPTION, Made and entered into, this the _____ day of October, 1952, by and between E. J. WHITMIRE and FRED A. MOORE, trading and doing business as a partnership under the name of MACON CONSTRUCTION COMPANY, parties of the first part, and ZEB ANGEL, party of the second part.

W I T N E S S E T H

AND WHEREAS, the parties of the first part are the owners of a one-half undivided interest in the mineral and mining privileges on the land hereinafter described, and the party of the second part is the owner of the remaining one-half undivided interest in the mineral and mining privileges on said land, and

WHEREAS, the parties of the first part have agreed to lease unto the party of the second part their one-half undivided mineral interest and mining privileges in the land hereinafter described.

NOW, THEREFORE, in consideration of the covenants and agreements to be done and performed by the party of the second part, the parties of the first part have leased, and by these presents do hereby lease unto the said party of the second part a one-half undivided interest in all mines, minerals, mining rights and privileges on that certain tract of land described in a deed from R. S. Jones, Commissioner, to Macon County, said deed bearing date of September 20, 1940 and registered in the office of the Register of Deeds for Macon County, North Carolina in Book V-4, at page 230.

THE TERMS AND CONDITIONS OF THIS LEASE AND OPTION ARE AS FOLLOWS:

-1-

The term of this Lease and Option shall be three (3) years, beginning on October 24, 1952 and ending on October 13, 1956, unless terminated by purchase, as hereinafter set forth, or for other causes as herein provided.

-2-

The party of the second part is hereby granted an option and right to purchase the one-half undivided interest of the parties of the first part in the above described property at any time during the term of this Lease and Option for the sum of TWO THOUSAND ($2,000.00) DOLLARS.

-3-

The party of the second part agrees that he will pay unto the parties of the first part the sum of ten (10) per cent of any and all monies received from any source whatsoever in connection with the property above described, which said sum shall be paid within five (5) days after the receipt of of said income.

It is stipulated and agreed that any and all sums paid by the party of the second part to the parties of the first part, as aforesaid, shall apply as a payment against the purchase price of said property, as hereinbefore set forth, in the event that said party of the second part shall exercise his option to purchase said property.

-4-

In the event that the said party of the second part, within the time stated, shall exercise this option and shall purchase

said property, the parties of the first part agree that they will execute and deliver unto the said party of the second part, his heirs or assigns, a good and sufficient deed of conveyance for their one-half undivided interest therein.

-5-

The party of the second part agrees to begin mining operations on said property on or before November 15, 1952, and in good faith thereafter to conduct mining operations on said property. If the party of the second part shall fail or refuse to conduct mining operations in good faith on said property for a period of ninety (90) days, then, and in such event, the parties of the first part shall have the right to declare this Lease null and void. It is specifically stipulated and agreed that mere token operations shall not be considered as compliance with the requirements to conduct mining operations in good faith, and failure to earn or pay any royalties for a period of ninety (90) days shall be deemed a complete and total failure to conduct such mining operations.

-6-

In the event that the party of the second part shall, in any way, breach the terms and conditions of this Lease and Option, or shall fail in any respect to comply with the conditions of same, then, and in such event, the parties of the first part shall have the right, upon ten (10) days notice, to declare this Lease and Option null and void and of no further force and effect. In the event of cancellation, as aforesaid, the said option to purchase shall likewise be terminated, and any and all sums paid to the parties of the first part shall be deemed and considered as royalty payments and not as payments upon the purchase price of said property, and

all rights and equities conferred upon the party of the second part shall be forfeited, and said party of the second part shall have no further rights under and by virtue of the option herein conveyed.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals, the day and year first above written.

MACON CONSTRUCTION COMPANY

By E. J. Whitmire (SEAL)

Zeb Angel (SEAL)

NORTH CAROLINA
MACON COUNTY

The execution of the foregoing Lease and Option was this day acknowledged before me by E. J. WHITMIRE, one of the partners in the MACON CONSTRUCTION COMPANY, for the purpose therein expressed.

WITNESS my hand and seal, this the 25th day of October, 1952.

Neal Johnston
Notary Public

My commission expires on the
9th day of October, 1954.

NORTH CAROLINA
MACON COUNTY

The execution of the foregoing Lease and Option was this day acknowledged before me by ZEB ANGEL, for the purpose therein expressed.

WITNESS my hand and seal, this the 24th day of October, 1952.

Neal Johnston
Notary Public

My commission expires on the
9th day of October, 1954.

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

Project Summary Report

By: Walter C. Anderson June 17, 1954

1. DMEA Docket No. 2582 - Mica
Contract No. Idm-E461
Kasson Mine
Macon County, North Carolina

Operator: Zeb Angel
Franklin, North Carolina

Operator's property rights:
Three year lease and option dated October 24, 1952.
Owner's Consent to Lien dated December 10, 1952.

2. Contract - dated December 12, 1952

Work authorized:

85.5 feet of shaft @ $42.00/ft.	$3,591.00
Timbering shaft, 85.5 feet @ $8.00/ft.	684.00
75 feet of drifting and crosscutting @ $35.00/ft.	2,625.00
Total estimated cost	$6,900.00
Government participation @ 90%	$6,210.00

Amendments:
No. 1 - 6/8/53 - extends completion date from 6 mos. to 7 mos.
No. 2 - 7/22/53 - extends completion date to 12 mos. and adds 60 feet of drifting and crosscutting and 200 feet of drilling @ $1.00/ft., resulting in total cost of project amounting to $9,200.00, with Government participation at 90%, or $8,280.00.
No. 3 - 12/4/53 - extends completion date to 16 mos.

Work completed:

83.5 feet of shaft @ $42.00/ft.	$3,507.00
Timbering shaft, 80.5 feet @ $8.00/ft.	644.00
135 feet of drifting and crosscutting @ $35.00/ft.	4,725.00
48 feet of drilling @ $1.00/ft.	48.00
Total accepted cost of project	$8,924.00
Government participation @ 90%	$8,031.60

Work began on December 29, 1954 and completed February 23, 1954. About 600 pounds of book mica recovered during project.
Operator's Final Report received June 3, 1954.
Field Team Final Report received March 22, 1954.

3. Audit certificate - issued April 6, 1954.

Total accepted cost	$8,924.00
Government participation	$8,031.60

4. Certification of discovery_____.
Insufficient information to make an ore reserve estimate.

5. Comments:

How conducted - except for slowness at the beginning because of lack of equipment, fair progress was made. Heavy ground, pumping and ventilating problems were encountered.

Operation - poorly directed.

Engineering - Reports submitted promptly but were only fairly well made.

Geological premise - The premise that the pegmatite outcrop would extend vertically downward was incorrect, as it was not intersected until considerable blind drifting had been done.

Geological criteria upon which work was based:
1. Pegmatite 3 to 8 feet thick.
2. Occurrence of mica books up to 12 inches in diameter.
3. Previous work resulted in recovery of approximately 3 tons of block mica.

Criteria developed during project:
1. Zoned pegmatite about 6 ft. thick.
2. Quartz core about 3 ft. thick.
3. Mica occurrence in both footwall and hanging wall zones.

Future possibilities - Results of DMEA exploration has encouraged Operator to continue drifting at his own expense.

Recommendations: The Nonmetallic Minerals Division concurs with the field team that there is insufficient information to make an ore reserve estimate but that the work lead directly to production of mica and, therefore, certification is warranted. The Geological Survey and the Bureau of Mines concur.

MME Form 18
10-60

OFFICE OF MINERALS EXPLORATION

ANALYSIS OF ANNUAL REPORT
OF CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

Division of Minerals prepares in duplicate, files original in official docket, and sends copy -

To: (1) Code 110 (for verification or adjustment)
(2) Code 210

		To	Report Period 5-1-61
Docket No. 2582	Operator Zeb Angel		Contract No. E-461

ORE ESTIMATES	Original DMEA or OME (From Final Report)	Revised DMEA or OME	Found by Operator after DMEA-OME work
Analysis			
Tons Found	no estimate		
Tons Produced (Ore or Concentrate)			
Previously Reported			
This Period			
Tons Remaining	—		

Comments of Analyst:

Inactive at present

Prepared by W R Fusured Date 5/26/61

82444-60

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

February 6, 1963

Re: DMEA-2582 (Mica)
Zeb Angel
Kasson Mine
Macon County, N. C.
Contract Idm-E461

Messrs. E. J. Whitmire and Fred A. Moore
d/b/a Macon Construction Company
Franklin, North Carolina

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

The royalty period under the terms of the subject contract expired December 12, 1962, but we cannot release the Government's lien on the property and close our books on the contract without receiving the above requested information.

Copies of MME Form 63 were mailed to Mr. Zeb Angel and were returned by the post office with the notation "Deceased". Therefore, as co-signers of the Owner's Consent to Lien dated December 12, 1952, which forms part of the contract, will you kindly complete and return two copies of the form to this office.

OFFICIAL FILE COPY
O. M. E
RECEIVED FEB 12 1963

DATE	INITIALS	CODE
2/13		800
2-18		100
2/13		110
2/13	Murphy	700

Sincerely yours,

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

DMEA-2582
Idm-E461

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since May 13, 1961, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since May 13, 1961, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☒

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name E. Whitmire Title President

Address Franklin, N.C. Date Feb. 11, 1963

4511

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

OFFICIAL BUSINESS

Office of Minerals Exploration
Washington 25, D. C.

RETURNED TO WRITER

REASON CHECKED
Unclaimed ✓ Refused
Unknown
Insufficient address
Moved, left no address
No such office in state
Do not remail in this envelope

deceased

POSTAGE AND FEES PAID
DEPARTMENT OF THE INTERIOR

FRANKLIN, N.J.
MY 25 11 AM
1962

No replies to Rep. II

220

20

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

MAY 3 1962

Re: DMEA-2582 (Mica)
Zeb Angel
Kasson Mine
Macon County, No. Carolina
Contract Idm-E461

Messr's E. J. Whitmire and Fred A. Moore
d/b/a Macon Construction Co.

Mr. Zeb Angel
Franklin,
North Carolina

Dear Mr. Angel:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

Willis R. Griswold

Willis R. Griswold, Chief
Division of Minerals

Royalty Period expires Dec. 12-1962.

Note: E. J. Whitmire and Fred A. Moore d/b/a Macon Construction Co. own ½ interest in mining & mineral rights on property.
Whitmore signed O.C.L. Dec. 10, 1952 for the company. However, no address for these parties write Beck could be found in docket. A copy of the certification was sent to Region III for forwarding to the company.

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

MAY 3 1962

Re: DMEA-2582 (Mica)
Zeb Angel
Kasson Mine
Macon County, No. Carolina
Contract Idm-E461

Mr. Zeb Angel
Franklin,
North Carolina

Dear Mr. Angel:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

Willis R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since May 31, 1961, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since May 31, 1961, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____	_____	_____
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since _____, has any production been transported through _____ workings (see _____ of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

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

MAY 8 1962

Re: DMEA-2582 (Mica)
Zeb Angel
Kasson Mine
Mason County, No. Carolina
Contract Idm-2461

Mr. Zeb Angel
Franklin,
North Carolina

Dear Mr. Angel:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

Willis R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since May 31, 1961, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since May 31, 1961, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____		
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since _____, has any production been transported through _____ workings (see _____ of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

ME Form 7
(10-58)

FILE COPY

Surname	Code
	800
	500
	120
	110
	100
	220

June [illegible] 19[illegible]

Memorandum

To: The File

From: C. E. Fisher, MS Auditor

Subject: [illegible] Pine Mica [illegible],
[illegible] - 22, 1962

During the period of June 18 to 22, 1962, I examined the purchase records of the U.S.A. Mica Purchase Depot at [illegible], North Carolina, for the purpose of ascertaining [illegible] production under MMA exploration project contracts. [illegible] not disclose any imported production [illegible] under the following contracts:

Contract No.	Docket No.	Operator	Mine Owners
S- 87	[illegible]	[illegible] Corporation	[illegible], Reid-Mary, [illegible]
476	[illegible]	[illegible] and [illegible]	[illegible], [illegible]-Mary, [illegible]
393	[illegible]	Dixie Minerals, Inc.	[illegible] [illegible] Stevens)
412	[illegible]	Bitter John Mica [illegible]	[illegible] Barnard
461	[illegible]	[illegible] Angel	
472	[illegible]	[illegible] Associates	[illegible], Conley, Turley
686	[illegible]	Dixie Mines, Inc.	" " "
476	[illegible]	Andrew W. Reid	
516	[illegible]	The [illegible]drica Min[illegible] Co.	[illegible] Cope
519	[illegible]	H. [illegible] Twiggs [illegible]	[illegible] Hawkins, Little Sam
547	[illegible]	Duncan Mining Co.	[illegible]
560	[illegible]	[illegible] Mining Co.	[illegible]
562	[illegible]	[illegible] Mica Co.	[illegible] Bennett
601	[illegible]	[illegible] Burleson, et al.	[illegible] Mitchell
613	[illegible]	[illegible] Jones	[illegible] [illegible]man
626	3133	[illegible]ric[illegible]ica Co.	[illegible]
636	[illegible]	[illegible] Mica Miners	[illegible]ders (Sanders)
659	3229	Willis [illegible]nyder Mining [illegible]	[illegible]
662	3255	Non-Metallic Minerals	[illegible] Peterson
674	[illegible]	[illegible] Cut Mining Company	[illegible]
679	[illegible]	[illegible] Burleson	[illegible], [illegible] (Talent)
676	[illegible]	[illegible]	[illegible]

Docket
Director's Reading File
CA & A Division
Region IV Files (2)

CEFisher/amm
6-26-62

43683

REQUEST FOR INFORMATION
FROM OPERATOR ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

From: George C. Selfridge, Chief
~~xxxxxxxxxxxxxxxxxxxx~~
Division of Field Operations
Office of Minerals Exploration
Department of the Interior
Washington 25, D. C.

Date: May 29, 1961

Concerning:
Docket No. DMEA-2582 (Mica)
Property Zeb Angel
Kasson Mine
Location Macon County, North Carolina
Contract Idm-E461

OFFICIAL FILE COPY
O. M. E
RECEIVED JUN 2 1961

DATE	INITIALS	CODE
6/2	gad	2 2 0
		~~1 2 0~~
6/5	[illegible]	800
"	gla	500
		220

Mr. Zeb Angel

Franklin, North Carolina

With the certification of the exploration project identified above, you were asked to inform our office about changes in the status of the property ~~and production from it.~~

To assist you to furnish this information and to assure the accuracy of our records, we ask that you answer the questions below and return ~~one copy~~ two copies to this office with copies of any pertinent documents.

George C. Selfridge
~~xxxxxxxxxxxxxxxx~~
Chief, Division of Field Operations

1. Since 7/1/60, has there been a change in ownership, lease, or sublease about which the OME has not been notified? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents. Yes ☐ No ☒

2. Since 7/1/60, has there been any production from the property?*Yes ☐ No ☒

A. If so and it was shipped, give name and address of purchaser?

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

Submitted by:

Name Zeb Angel Title Owner

Address Franklin, NC, Date 5/31/61

MME Form 63 8-60 * Property means land subject to the contract. 79340-60

Therofax copy to Region IV

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

IN REPLY REFER TO:

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAY 22 1961

DATE	INITIALS	
5/23	gad	WVO
	[illegible]	~~110~~
5/23	[illegible]	800
5/29	gla	500
		220

May 18, 1961

Report of Inspection of Certified Project

Zeb Angel

Kasson mine, Macon County, N.C.
DMEA 2582

E461

All equipment has been removed from the Kasson mine and the cut and dumps are overgrown with young pine. Since the contract work two shallow shafts have been sunk southwest of the DMEA shaft. The farthest one is 239 feet S 60 W of the DMEA shaft and was reported by L. E. Shirley in June 1956 to be 20 feet deep. It has caved to 12 feet. A second shaft has since been dug 195 feet S 60 W of the DMEA shaft. This new shaft is 4 feet in diameter and 12 feet deep. Only a little weathered pegmatite is in the dump near this shaft. Production of mica, if any, was probably small.

A few hundred pounds of small size muscovite is in a locked tool house near the DMEA shaft. Although a close inspection of mica could not be made, it appears to be of poor quality.

Frank G. Lesure

Date Inspected
25 April 1961

since 7/1/60

Inquiry form to be sent to
Zeb Angel
Franklin, N. Carolina

OFFICIAL FILE COPY
O. M. V.
RECEIVED JUL
DATE | INITIALS
7-6 gal

NORTH CAROLINA PROJECTS

DMBA SEMI-ANNUAL REPORT ON CERTIFIED PROJECTS

Projects Inactive since last inspection

Reporting Period: January 1 to July 1, 1960.

DMBA No.	Idm-E	Operator	Date of Inspection
[illegible]	87	Pitt Mica Co. (Ray Mine)	June 13 [illegible]
1141	107	Franklin Developers (Campbell Mine)	"
1700	116	Fred [illegible] Cabe (Cabe Mine # 1)	"
2150	456	Reed Hooker Ptners (Reed-Hooker Mine)	"
2277	412	Lin Carpenter, Mgr. (Bowle John Mine)	"
2293	393	Dixie Minerals, Inc. (Dixie Mine and D. H. Stephens Mine)	"
2327	476	A. W. Reid, Operator (May Mine)	"
1876	181	Yancey Mica Mines, Inc. (Cattail Mine)	"
2375	349	Robinson and West (Swannanoa Mine)	"
2377	311	Piedmont Minerals (Self Mine)	"
2557	432	Anglin & Elkins (Huskins Mica Mine)	"
2582	461	Zeb Angel (Kasson Mine)	"
2875	613	Lait Young (Cox Mine)	"
2886	547	Duncan Mining Co. (Connolly Mine)	"

OFFICIAL FILE COPY
O. M. E.
RECEIVED SEP 21
DATE | INITIALS
9-21

[illegible]

[illegible] projects since last report

Reporting Period: January 1, 1959 [illegible] Commodity: [illegible]

DMEA	Idaho-	Mine Name	Operator	Inspector
1140	87	Mary	[illegible] Company	9/2/59
1[illegible]	1[illegible]	[illegible]	[illegible]	9/2/59
2150	456	Reid	[illegible] Hooker	
2277	112	Burke John	Burke John [illegible] Lessers	
2293	[illegible]	[illegible]	[illegible] Inc.	
2327	[illegible]	[illegible]	[illegible]	
2579	[illegible]	[illegible]	[illegible]	
2582	[illegible]	[illegible]	[illegible]	
2610	[illegible]	[illegible]	[illegible] Inc.	
2875	[illegible]	[illegible]	[illegible]	
2926	516	[illegible]	[illegible] Mining Co.	
3000	[illegible]	Merrill [illegible]	[illegible] Mining Co.	
3268	[illegible]	Harlow	[illegible] Mines [illegible] Inc.	
3287	[illegible]	[illegible]	[illegible] Phillips, et al.	
3469	737	[illegible]	[illegible]	
3543	[illegible]	[illegible]	[illegible] Inc.	
3720	[illegible]	[illegible]	[illegible]	

Official
EXTRA COPY
DMEA
JUL 2 1958
7/- C 220
600

SEMI-ANNUAL REPORT ON CERTIFIED OR PSEUDO CERTIFIED PROJECTS

INACTIVE SINCE LAST INSPECTION

Commodity : Mica

Reporting Period: January 1, 1958 to July 1, 1958

DMEA No.	Idm-E	Operator & Mine	Date Inspected
1140X	67	Pitt Mica Corp (Mary Mine)	June 25, 1956
1700X	111	Fred Otto (Otto No.1 Mine)	" " "
2150	156	Reid & Hooker (Reid Mine)	" " "
2277	412	Burke John Mica Mines (Burke John Mine)	" " "
2293	393	Dixie Minerals Inc. (B.H. Stephens Mine)	" 24 "
2327	476	Andrew M. Reid (May Mine)	" 25 "
2582	461	Zeb Angel (Kasson Mine)	" 24
2610	491	Dixie Minerals Inc. (Sholl Ridge Mine) Pseudo	" 24 "
2687	425	Sam Phillips, et al (Lotla Bowers Mine)	" 25 "
2875	613	Latt Young (Cow Mine)	" 24 "
2926	516	The Good Ice Mining Co. (Engle Cope Mine)	" 24 "
3000	557	B.T.R. Mining Co.(Merrill Bryson Mine)	" 25 "
3265	830	Mines & Mining Inc.(Farlow Gap)	" 26 "
3267	674	Sam Phillips, et al (Mud Cut & Tallent Mines)	" 25 "
3469	737	A Ward(Elmore Mine)	" 24 "
3720	805	Alvin White, et al(Coward Mine)	" 24 "
3543	891	Buchanan Minerals Inc(DREAM Mine)	" 24 "

Wm. A. Beck, Mining Engineer, USBM (DMEA)

100338

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Nonmetallic Minerals Division Date 7-19-56

Semi-Annual Report - Certified Project Date 6-6-56

DMEA No. 2582 Operator Zeb Angel Contract No. Idm-E 461

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	No estimate given in final report	
Increase (Operator)		
Total		
Decrease (Production)		
Net Available		

Investment

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

Operator states that no mica has been produced since completion of DMEA contract.

J. M. Anderson

RECEIVED FEB 6 1958

DATE	INITIALS	CODE
2/6	C	220
	COM	100

DMEA EXPLORATION PROJECT

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

DMEA-2582, Idm-E461 (mica) KASSON MINE
Macon County, North Carolina

Reporting Period: July 1, 1957 to January 1, 1958

Operator: Zeb Angel, Franklin, North Carolina

This property was visited January 23, 1958. No work had been done at the project since the last inspection of August 9, 1957.

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines (DMEA)

2/4/58

z

SEMI-ANNUAL REPORT OF CERTIFIED PROUECT

DMEA EXPLORATION PROJECT

DMEA-2582, Idm-E461 (mica) KASSON MINE

Operator: Zeb Angel, Franklin, North Carolina

Location: 1.7 airline miles N 60° E of Franklin, Macon County, N.C.
Mine site is 1/4 mile east of US Highway No.23.

This property was visited August 9, 1957. No work had been done since the mine was examined March 19, 1957.

Wm. A. Beck, Mining Engineer
Bureau of Mines

z

OFFICIAL FILE COPY
DMEA
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DATE	INITIALS	CODE
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OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE
7/1	C	220
"	COM	100

Semi-Annual Report of Certified Project

DMEA-2582, Idm-E461 (mica) Kasson Mine

Reporting period: July 1, 1956, to January 1, 1957.

Operator: Zeb Angel, Franklin, North Carolina.

Location: 1.7 miles airline N60°E of Franklin, Macon County, N. C.

Mine site is ¼ mile off U. S. Highway No. 23.

This property was visited with the operator on March 19, 1957. No work was being done there and no mica has been produced since the termination of the contract.

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

Inspected: March 19, 1957

WAB/as
cc
Laurence
Lynch

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

July 28, 1954

Royalty Audit Memorandum

To: Mr. Jay L. Chambers, Chief
Contract Administration and Audit Division

From: B. J. Brukman, Auditor

Subject: Royalty Audit - Zeb Angel, Kanawa Mine
Contract Idm-2461, Docket No. DMEA-2582

On July 13, 1954, accompanied by Mr. Wm. A. Beck, Mining Engineer, Bureau of Mines, Knoxville, Tennessee, I called upon Mr. Zeb Angel to audit his sales of mica from the subject mine. Mr. Angel stated he had sold a small quantity of strategic mica along with a shipment made by B. T. R. Mining Company on April 16, 1954. The sale amount to $55.48. He presented us with his check for $2.77 as payment of his royalty account in full. He is not planning to do any mining at the present time.

RECEIVED
JUL 22 - 1954

REPORT OF INSPECTION OF CERTIFIED PROJECT

DMEA-2582, Idm-E 461 (mica)

Zeb Angel, Franklin, North Carolina

KASSON MINE, Macon County, N. C.

Accompanied by B. J. Brekhus, Auditor, Contract Administration and Audit Division the writer contacted Mr. Angel on July 13, 1954 in regard to the subject project. The mine is not now in operation, but one sale of mica has been made. This was a sale of $55.48 worth of sheet that was included in a sale made to the Government Buying Depot by DMEA-3000, R. T. R. Mining Company on April 19, 1954. Mr. Angel gave us a check in the amount of $2.77 as the Governments royalty on this sale.

July 13, 1954.

Wm. A. Beck

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

461

RECEIVED
JUL 18 1956

Semi-Annual Reports of Certified Projects

Reporting Period 7/13/54 to 6/6/56 Date of Examination June 6, 1956

Operator Zeb Angel - Franklin, N. C.

Mine Name Kasson Mine (mica)

County and State Macon County, North Carolina

Docket Number and Commodity --- DMEA-2582

Contract Number --- Idm-E 461

Date of Contract December 12, 1952

Date of Certification June 21, 1954

Expiration Date of Royalty Payments December 12, 1962

Total Amount of Contract ----------	$9,200.00
Total Expenditures under Contract -----	8,031.60 - ?K
Amount of Government Participation at 90 %	8,280.00 - ?

Royalty Payments this Period None

Previous Royalty Payments $2.77

Total Royalty Payments to Date $2.77

Percent Government Participation Repaid .034 of 1% (Based on total expenditure figure)

Royalty Due on Production to Date)
) None
Royalty Remarks)

Original Estimate of Reserves
(from final Engr.-Geol. Report): No estimate given in final report

Increase (or Decrease) of Reserves
by work performed subsequent to
original and last Field Team
estimates:

Revised Estimate of Reserves:

Production this Period (Ore or Concentrates) in suitable detail None

Amount of Previous Production (since date of contract) $55.48

Total DMEA Production to Date : 6.23 lbs. sheet mica $55.48

Percent of Revised Reserves Mined

Production Remarks:

Operator states that no mica has been produced since completion of the D.M.E.A. Contract.

Other Remarks:

(Investments, description of additional exploration or development work, production facilities, and plant installations, etc. since completion of the exploration project work.)

A 4-ft. circular untimbered shaft 20 feet deep, has recently been sunk in the existing open cut by J. W. McGahey, Franklin, N. C., at a point 239 feet S60°W of the deeper shaft sunk under DMEA Contract. Dump material examined indicates that the shaft was sunk primarily in country rock containing granitic stringers - No mica recovery from this work is reported.

Signed Lawrence E. Shirley Engineer
Lawrence E. Shirley
U. S. Bureau of Mines

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT
Date 7-18

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. Docket Control Mails and Files
5.
6. Docket Control Mails and Files Division

Note comments in report regarding:

1. Finished!

2.

3.

4.

and take appropriate action.

- - - - - - - - - -

Action taken by Division:

Robert E. Adams

DOCKET FILE COPY
Surname:
Anderson
Smith
Talbert
Rutin
Hedges
McWinnie for Thayer
Selbridge
Bjorkman

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

JUN 22 1954

Mr. Zeb Angel

Franklin, North Carolina

Re: Docket No. DMEA-2552 - Mica
Kassem Mine
Macon County, North Carolina
Contract No. Idm-E461

Dear Mr. Angel:

Transmitted herewith is a certification of discovery or development on Contract No. Idm-E461 on the Kassem Mine, Macon County, North Carolina.

By the terms of the Exploration Project Contract and of the certification, all production from the property from the date of the Exploration Project Contract, December 12, 1952, is subject to the Government's percentage royalty as set forth in the contract until the sum of $8,031.60 is paid or until December 12, 1962, whichever occurs first.

Payments should be made to Mr. Robert A. Laurence, Executive Officer, Defense Minerals Exploration Administration Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee. Checks should be drawn payable to the Treasurer of the United States. The purchaser should be advised to deduct the royalties from the amount due on each shipment and forward check direct to the Executive Officer.

Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets showing quantity and grade of ore sold, the name of the purchaser, and the price and charges certified to be correct by the purchaser.

You are requested to notify Mr. Laurence of any changes in ownership or production rights that may have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify Mr. Laurence at six-month intervals that no production has been made.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

WCAnderson:ged 6/17/54

Copy to: Adm. R. File
Docket File
Mr. Johnson
Mr. Hedges, 4604
Mr. Chambers
Field Team, Region VII
Mr. Thayer, 5216 GSA Bldg.
Operating Committee
Mr. Bonk

R.C.S.

DOCKET FILE COPY
SURNAME:
Anderson
Smith
Caldwell
Arthur
Hodges
McCreight for Thayer
Lefkowitz
Jefferson

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

JUN 22 1954

Mr. Irving Gumbel, Acting Director
Materials Division
Emergency Procurement Service
General Services Administration
Washington 25, D. C.

Re: Docket No. DMEA-2582 - Mica
Zeb Angel
Ransom Mine
Mason County, North Carolina
Contract No. Idm-8461

Dear Mr. Gumbel:

I am enclosing one copy of a certification of discovery or development relating to the subject contract.

The exploration contract was signed December 1[illegible], 1952, with the Government participating to the extent of 90% of $6,9[illegible].00 or $6,21[illegible].00.

The project was started on December 29, 1952, and completed February 23, 1954, after the expenditure of $8,924.00, which is the total net accepted cost according to the Audit Review. The Government paid 90% of the total accepted cost or $8,031.60.

The work performed on this project consisted of sinking an 85-foot shaft, driving 135 feet of drifts and/or crosscuts and drilling 48 feet of holes. The exploration work encountered scattered pegmatitic and quartz lenses and stringers in biotite gneiss from which strategic mica was produced.

The DMEA concurs with the field team evaluation of the work performed and has certified that a discovery or development has resulted from the work under this contract.

Sincerely yours,

C. O. Mittendorf (for)
Administrator

[illegible]ged 6/17/54

Copy to: Admr. R. File
Mr. Johnson
Mr. Chambers
Docket File
Mr. Hedges, 4604
Mr. Rook
Operating Committee
Field Team, Region VII
Mr. Thayer, 5216 GSA Bldg.

RCJ.

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

Room 13, Post Office Building
Knoxville 2, Tennessee

June 1, 1954

Memorandum

To: Operating Committee, DMEA, Washington 25, D. C.

From: Executive Officer, DMEA, Region VII

Subject: Operator's Final Report. DMEA-2582, Idm-E 461 (mica)
Zeb Angel (Kasson Mine), Macon County, North Carolina

Transmitted herewith are the original and three copies of the subject report. We have retained one copy for our files.

Please note that the operator's figures are in error. Eighty and one half feet of timbering was done, for which $644.00 was charged instead of 80 feet and $640.00. Total expenditures should have been $8,924.00 instead of $8,920.00.

Robert A. Laurence
Robert A. Laurence
Executive Officer
Region VII

Enclosures 4

JUN - 3 1957

The Kasson Mine Final Report

IMEA-2582 Idm-E461

Shaft Depth ------83.5 Cost per foot----$42.00 ----------Total Cost $3507.0

Timber	80 ft. " " "	$8.00	----------$640.00
Drifting	135 ft. " " "	$35.00	---------$4725.00
Drill Holes	48 ft. " " "	$1.00	----------$48.00

Total Cost $8,920.00

I recovered about 300 lbs. of mica in the last drift. The vein turned soft and started falling from overhead but caught it all up with timber and drove 10 ft. further than the contract called for. There is a break in the vein here and mica all crushed up.

Joe Lowl

Operators Final Rpt.

C
O
P
Y

May 14, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII

Subject: Recommendations for Certification.

Reference is made to your letter of May 4, 1954.

We recommend that certification of discovery and development be issued on all 3 of these projects.

DMEA-2293: This work definitely exposed a mica-bearing pegmatite; if any mica is recovered in the future, it will be from pegmatite and therefore a direct result of the exploratory work.

DMEA-2582: Similarly, any additional mica produced here will be from the pegmatite discovered at the west end of the underground workings where it appears to be thickening.

DMEA-3008: Considerable mica of poor quality was discovered during the exploration, and the pegmatite thus explored extended beyond the exploratory workings where better grade mica was recovered. Obviously the latter recovery depended directly upon the earlier exploration.

In all three cases, there is insufficient information to make any estimates of reserves developed, but we think the work under the contract did lead directly to production and therefore certification is warranted on all three.

Robert A. Laurence
Executive Officer, DMEA
Field Team

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

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

MAY 4 - 1954

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

Re: Docket No. DMEA-2293 - Mica
Dixie Minerals, Inc
D. H. Stephens Mine
Jackson County, North Carolina
Contract No. Idm-5393

Docket No. DMEA-2528 - Mica
Zeb Angel
Mason Mine
Mason County, North Carolina
Contract No. Idm-5461

Docket No. DMEA-3008 - Mica
Murphy Mining Company
Red (Bennett) Mine
Yancey County, North Carolina
Contract Idm-5560

Dear Mr. Laurence:

Reference is made to the final field ~~examination~~ reports and to the recommendations that certifications be delayed.

Under the original contract forms (MP-200 of April and June 1951) certification can be made only within six months after "the completion of the exploration project or termination of the contract." Under subsequent contract forms certification may be made "at any time not later than 6 months after the Operator has rendered the final report and final account . . ." If a project is to be certified, it is requisite, of course, that this action be taken within the time limited in the particular contract. All of the forms, however, contemplate that the certification should have "resulted from the exploration work," rather than from work prosecuted independently by the operator after the completion or termination of the work provided for in the exploration project contract. In other words, if certification cannot be justified at the time of completion or termination of the work provided for in the exploration project contract, it cannot be justified

R.C.G.

by any work performed subsequently thereto by the operator on his own account.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (JHS)

APPROVED:

J. H. Hedges

Member, Bureau of Mines (JHS)

D. M. Larrabee

Member, Geological Survey (JHS)

P. S. Please advise if in your opinion any significant production based on present geological knowledge is likely to be made from these properties from which some mica was recovered during the DMEA work.

JLHofflund/emd 4/27/54

Copy to: Docket (3)
Adm. R. File
Op. Comm.
W. F. Dietrich, Rm. 3061
D. M. Larrabee, Rm. G-232 GSA Bldg.
L. G. Houk (3)
J. L. Hofflund
chron.
pending

600

April 14, 1954

Memorandum

To: Chief Counsel

From: Nonmetallic Minerals Division

Subject: Delayed action on certification of discovery or development.

Kindly review the attached rough draft on dockets:

DMEA-2293 Dixie Minerals, Inc.
DMEA-2582 Zeb Angel
DMEA-3008 Murphy Mining Co.

and comment on the proposed reply to Region VII on their recommendation for delayed action on certifying these deposits.

LGHouk:gad 4/14/54
Copy to: Mr. Houk

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

March 31, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2582

Contract Number: Idm-E461

Applicant: Zeb Angel

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

Date of Field Team Final Report: March 19, 1954

Date Rec'd. by Ceramic & Fert. Mats. Branch: March 29, 1954

Field Team Recommendation:

1. Certification contingent on results of additional work by applicant at his expenses.

Comments:

1. Exploration by 85.5-foot shaft, 135-drift, and drilling 48-feet of drill holes.

2. Strategic mica was encountered.

3. Expenditures -

Total approved	$9,200.00
Total cost	8,924.00
Government share of cost	8,032.60
Value	Questionable

Recommendation:

I suggest certification of discovery or development be made on this mine because strategic mica was obtained through DMEA exploration and the conditions have encouraged the operator to continue mining.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 24 1954

March 23, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2582 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Zeb Angel.
Name of property: Kasson Mine.
Location of property: 1.7 miles N. 60° E. of Franklin, N. C.
Date of field team report: March 16, 1954.
Authorship of field team report: K. H. Teague, L. E. Shirley, D. H. Amos.
Field ream's recommendation:

1. Completion of project.
2. Certification should be delayed until operator does some more work on his own.

Comments:

Zeb deserves better results!

ACTION RECOMMENDED:

Follow field team's recommendation.

D. M. Larrabee

D. M. Larrabee

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

March 19, 1954

Memorandum

To: Operating Committee, D M E A - Washington

From: Field Team, D M E A- Region VII - Knoxville, Tenn.

Subject: Final Examination Reports:
DMEA-2293, Idm-E 393, D.H. Stephens Mine (mica)
✓DMEA-2582, Idm-E 461, Kasson Mine (mica)

Enclosed are 4 copies of the final examination reports on the subject exploration contracts.

In both of these projects, pegmatites of possibly workable dimensions were cut, but not sufficiently exposed to determine if they contain a workable deposit of commercial mica; therefore certification of discovery would be difficult to make at this time. However, additional work underway at the Operators' own expense may well prove that these deposits are workable, therefore we agree with the examiners' recommendation that final decision be delayed until after they have examined the new workings.

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

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

Reviewed by
DMEA OPERATING COMMITTEE
3-26-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Final Field Team Rpt.

FIELD TEAM, REGION VII

FINAL REPORT

ON

DMEA-2582, ZEB ANGEL, Opr. KASSON MINE
Macon County, N. C.

By

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

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

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

March 16, 1954

Reviewed by
DMEA OPERATING COMMITTEE
3-26-54
(date)

EXPLORATION PROJECT

FINAL REPORT
On
DMEA-2582, Idm-E461, KASSON MINE (mica)

Operator: Zeb Angel, Franklin, North Carolina

The Kasson Mine is located 1.7 airline miles N. 60° E. of Franklin, Macon County, North Carolina.

Work completed under the contract consisted of sinking a 85.5-foot vertical shaft, driving 135 feet of laterals and drilling 48 feet of drill holes. A small quantity of strategic mica was discovered during the work and the Operator plans additional exploration at his expense; thus possible certification of discovery should be deferred pending results of this additional work.

Work began on December 29, 1952 and was completed on February 23, 1954. A 85.5-foot 5' x 7' vertical shaft was sunk and was timbered for 80.5 feet. A crosscut was driven in a S. 10° W. direction for 75 feet from the 80 foot level but failed to intersect the target. From this crosscut another crosscut was started 30 feet from the shaft and was driven S 50° W. for 30 feet. Four drill holes were made (see attached map) from this crosscut as follows:

1	N.85° W.	at 15'	6'
2	S.85° W.	at 18'	21'
3	S.30° W.	at 20'	21'
4	N.60° W.	at 28'	18'

As drill Hole 4 intersected pegmatite, a drift was driven due west for 30 feet from the head of the crosscut.

Only biotite gneiss containing scattered pegmatitic and quartz lenses and stringers is present in the shaft in two crosscuts and in Drill Holes, 1, 2 and 3. Drill Hole 4 intersected pegmatite near its collar. The east end of a zoned pegmatite was encountered at 3 feet in the drift. It thickens westward to about 6 feet at 30 feet in the drift and has a quartz core about 3 foot thick at this point. The pegmatite strikes about E-W and dips 80° to the south. Near the heading of the drift it is highly weathered and has required timbering. The zones enclosing the core consist

of greenish feldspar (potash ?), quartz, muscovite, biotite, garnet, and pyrite. The footwall zone contains more muscovite than the hanging wall zone. Extension of the drift westward ~~is~~ along the pegmatite is planned by the Operator at his expense provided heavy ground does not become a major problem.

About 600 pounds of book mica was recovered during the project. Some is curved and cracked.

Expenditures:

(a)	Total approved	$9,200.00
(b)	Total Cost of Project	8,924.00
(c)	Government's share of cost	8,032.60
(d)	Government's share unexpended	247.40
(e)	Value of production during oper.	??
(f)	Government's royalty	??

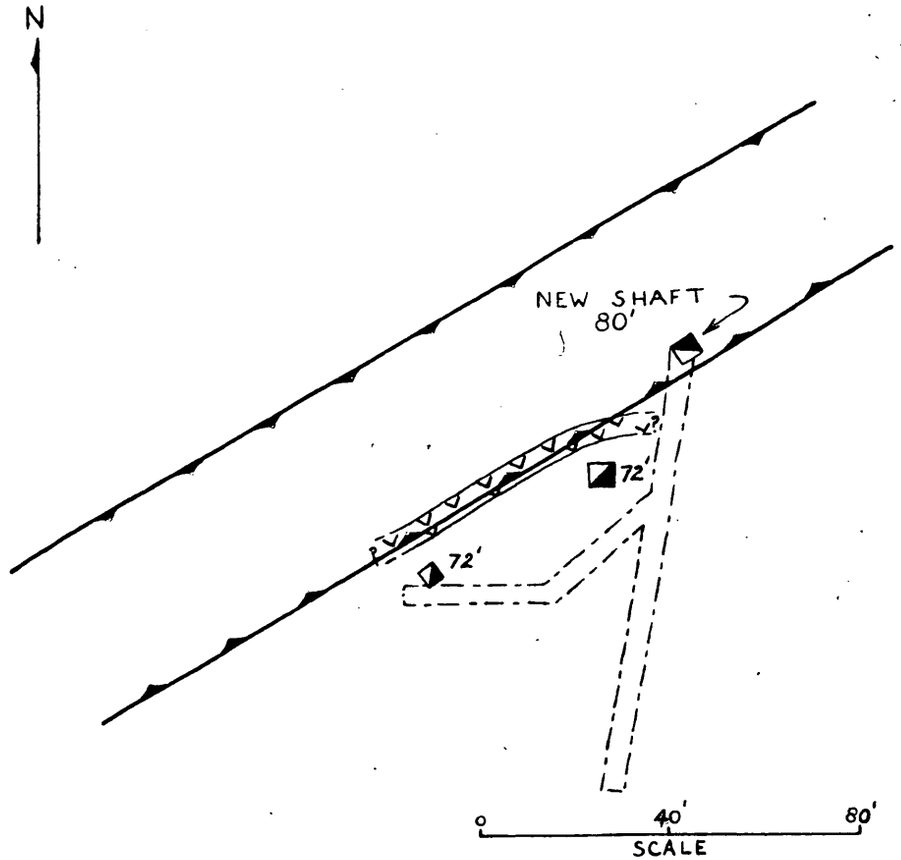
This project was conducted in an efficient and satisfactory manner. No equipment was purchased under the contract.

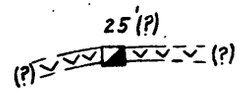
K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

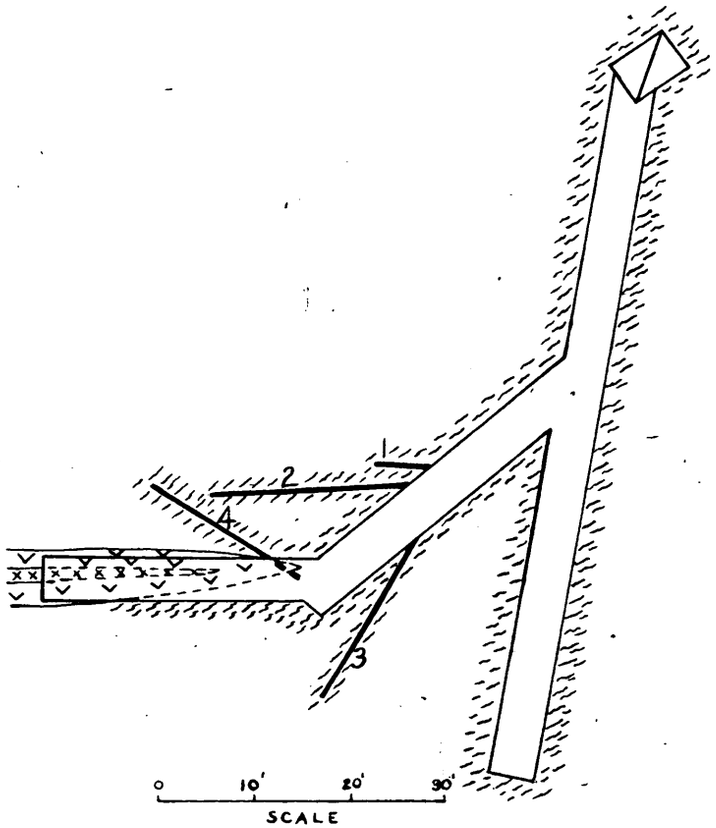
L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

March 16, 1954

zm







PLAN OF LATERALS

KASSON MINE

MACON CO., N.C.

DMEA - 2582

Mr. Chambers

D. M. E. A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHEASTERN REGION
REGION VII
HAMILTON BANK BUILDING

OFFICE OF
REGIONAL DIRECTOR

POST OFFICE BOX 1909
KNOXVILLE, TENNESSEE

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 11 1954

March 9, 1954

Memorandum

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

From: Administrative Officer, Region VII, Knoxville, Tennessee

Subject: Monthly Reports and Vouchers

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

✓ Idm-E-461 — Zeb Angel
DMEA Docket No. 2582
9th and Final Payment - month of February
Completion Date: 2/23/54
Amount $378.00

✓ Idm-E-557 — B.T.R. Mining Company
DMEA Docket No. 3000
7th payment - month of February
Amount $1008.00

✓ Idm-E-560 — Murphy Mining Company
DMEA Docket No. 3008
6th and Final Payment - month of February
Completion Date: 2/26/54
Amount $724.50

✓ Idm-E-607 — B. G. Thomas & Tarp Young
DMEA Docket No. 2794
5th payment - month of February
Amount $1559.25

✓ Idm-E-642 — Barn-Cay Mining Company
DMEA Docket No. 2892
2nd payment - month of February
Amount $144.00

✓ Idm-E-659 — Willis & Snyder Mining Company
DMEA Docket No. 3229
1st payment - month of February
Starting Date: 2/1/54
Amount $487.50

Helen Miller
Helen R. Miller

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Final

RECEIVED
MAR 11 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1954 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address Franklin, N. C.
Contract Amount, $ 9200. Government Participation 90 % Amount, $ 8,280.

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:						
~~xxxxx~~g Timbering		644.00	644.00			
zzzzzzg Drill Holes		48.00	48.00			
Crosscutting						
Drifting 12 ft.	420.00	4305.00	4725.00			
Shafting		3507.00	3507.00			
(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):						
TOTALS	420.00	8504.00	8924.00	420.00	8,504.00	8,924.00

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-53

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 2/27/54 *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:
$ 378.00
Signature Cora A. Piper
(Authorized Certifying Officer)
Date MAR 8 1954 Vou. No. 227
(See other side)

9+7 C-2/23/54 4200

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date March 2, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date MAR 4 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 11 1954

Month of Feb. 4 1951 Docket No. DMEA 2582 Contract No. IDM-E 461

Operator's Name Zeb Angel Minerals Mica

Address 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
ft.	ft	420.00	12	4725.00	135	35.00	135	35.00
Drifting								
Crosscutting								
Raising	ft			3507.00	83.5	42.00	83.5	42.00
Shafts								
Winzes	xx extension ft			48.00	48	1.00	200	
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails	ft			644.00	80.5	8.00	85.5	8.00
Total Distributed Costs		420.00		8924.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		420.00		8924.00				

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.

2/27/54
Date

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)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATOR'S
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF FEBRUARY, 1954

Work Accomplished:

1. Installed pump
2. Wired pump for operation
3. Removed pump - failed to work
4. Drilled and shot
5. Mucked out - some mica
8. Drilled through the hard and hit soft
9. Mucked out - Mr. Teague, Shirley and Amos visited mine
10. Mucked
11. Mucked
12. Timbered in drift - vein very soft on each side of flint overhead.
15. Timbered
16. No work
17. Installed new pump
18. Pumped out mine and mucked
19. No work
22. Pick and shovel work in vein
23. Mr. Beck, Mr. Teague, Mr Shirley and Mr. Amos visited mine. Contract completed. Up to this date I have recovered around 300 pounds of mine run mica. Vein is very soft, walls are very soft.

Geb Angel

Geb Angel, Operator

INTERIM REPORT

Bureau of Mines
Defense Minerals Administration
FEB 10 1954

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C. Mine site is 1/4 mile off U. S. Highway #23.

This contract has been completed. All of the combined crosscut and drift footage as provided in Amendment No. 2 has been expended. 48 feet of jackhammer test holes was used in attempting to locate the pegmatite. Pegmatite material was located at 34 feet and the remaining 26 feet was driven in pegmatite to the west. About 250 pounds of block mica has been recovered from the drift. The quality of the mica appeared to be improving with drift advance and the examiners believe that operations will continue in the future in an effort to improve production. Material encountered consists of massive quartz as a core, feldspar, muscovite and biotite, and secondary sulphides. At this point both the pegmatite and enclosing wall rock is badly weathered. Some timbering has been necessary. The mine began also to make more water and a pump has been installed. Work accomplished on this project consisted of sinking a vertical shaft to a total depth of 83.5, which was cribbed solid to 80.5 feet. Turnoff was made from the shaft bottom and 135 feet of combined crosscuts and drifts were driven. In the last 60 feet test holes totaling 48 feet were made by jackhammer. The operator was very cooperative throughout this contract and accepted all suggestions made freely.

certification?

Mr. W. A. Beck, member of the DMEA Field Team, Region VII, accompanied the examiners on this visit to the mine.

L. E. Shirley

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

K. H. Teague, D. H. Amos

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

February 23, 1954

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C. Mine site is 1/4 mile off U. S. Highway #23.

Drifting continues on this contract and is now at 21 feet. Material encountered consists of a quartz core, 3 to 4 feet in width, feldspar and quartz containing secondary sulphides, and muscovite and biotite mica. The muscovite recovered is variable in quality and only about 40 pounds of good block mica has been observed. None of the mica has been processed to date.

Drift advance will continue in a general ~~east~~-west direction for remaining footage on the contract.

L. E. Shirley

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

K. H. Teague Dewey Amos

K. H. Teague and Dewey Amos
Geologist, U. S. Geological Survey

February 8, 1954

D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHEASTERN REGION
REGION VII
HAMILTON BANK BUILDING

OFFICE OF
REGIONAL DIRECTOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1954

POST OFFICE BOX 1909
KNOXVILLE, TENNESSEE

February 8, 1954

Memorandum

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

From: Chief, Administrative Division, Region VII, Knoxville, Tennessee

Subject: Monthly reports and vouchers

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

Idm-E-461	Zeb Angel DMEA Docket No. 2582 8th payment - month of January Amount $925.20
Idm-E-607	B. G. Thomas & Tarp Young DMEA Docket No. 2794 4th payment - month of January Amount $1102.50
Idm-E-642	Barn-Gay Mining Company DMEA Docket No. 2892 1st payment - month of January Starting Date: 1-13-54 Amount $576.00

Helen Miller
Helen R. Miller

Enclosures 6

/hbm
Copies to W. A. Beck
R. A. Laurence
Region Files
Day Files

MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

205

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

VOUCHER & SCHEDULE
47

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1954 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address Franklin, N. C.
Contract Amount, $ 9200.00 Government Participation, % 90 Amount, $ 8,280.00

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~~ ~~XXXX~~ Timbering	-	644.00	644.00			
~~XXXXX~~ Drill Holes	48.00	none	48.00			
Crosscutting						
Drifting 28 ft	980.00	3325.00	4305.00			
Shafting		3507.00	3507.00			
(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):						
TOTALS	1028.00	7476.00	8504.00	1,028.00	7,476.00	8,504.00

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

Date Jan. 30, '54 *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:

$ 925.20

Signature Cora A. Piper
(Authorized Certifying Officer)

Date FEB 5 1954 Vou. No. 205
(See other side)

8

102.80

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date Feb. 1, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER ~~DMEA REGION VII~~ Date FEB 3 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 4 Docket No. DMEA 2582 Contract No. IDM-E 161
Operator's Name Zeb Angel Minerals Mica
Address 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 and Crosscutting ft	ft	980.00	28	4305.00	123	35.00	135	35.00
Raising								
Shafts	ft	- -	- -	3507.00	83.5	42.00	85.5	42.00
Winzes								
Drilling: ~~Ore~~ extension ft		48.00	48	48.00	48	1.00	200	1.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	ft	- -	- -	644.00	80.5	8.00	85.5	8.00
TOTAL DISTRIBUTED COSTS		1028.00		8504.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1028.00		8504.00				

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. 30 '54 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)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATOR'S
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF JANUARY, 1954

Work Accomplished:

January

1. drilled and shot; drilled 6 ft. testhole to the right
4. mucked out
5. drilled and shot; drilled 15 ft testhole to left on angle
6. mucked out; drilled testhole to left on angle.
7. drilled and shot
8. mucked out
11. finished mucking out; Mr. Shirley and Mr. Teague visited mine
12. bailed out water
13. drilled 8 slab holes on right
14. mucked out
15. drilled one long hole; hit vein at approx 4 ft, went through 2 ft of vein, after that granite
18. drilled and shot; mucked out; vein about 3.5 ft. wide
19. finished mucking out, vein about 3.5 ft. wide
20. drilled in vein and shot
21. bailed out water and mucked; went to head of drift; vein larger than drift and some mica. Mr. Fitzgerald, State Mine Inspector, visited mine; well pleased with operation.
22. mucked out.
25. finished mucking; Mr. Teague, Mr. Amos, and Mr. Shirley visited mine
26. drilled and shot
27. mucked out
28. drilled and shot
29. mucked out; vein looks more promising every shot.

Bob Angel

Bob Angel, Operator

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C. Mine site is 1/4 mile off U. S. Highway #23.

Crosscutting has been completed on this contract. Pegmatite has been encountered and drifting is underway. Under the amended contract, which allowed 60 feet of crosscutting and drifting, 34 feet of crosscut was expended. Of this amount 30 feet was driven in a S 50° W direction. A test hole was drilled at 33 feet in the northwest wall for 18 feet which encountered the body. The crosscut direction was changed to E-W and about 8 feet of drift has now been accomplished in pegmatite in this direction. The crosscut was driven in biotite gneiss containing scattered lenses of quartz and the pegmatite encountered in the drift is composed of greenish colored feldspar, a quartz core, abundant sulphides (principally pyrite), accessory garnet and scattered blocks of muscovite mica.

The operator was advised to continue scaling the crosscut and drift thoroughly after shooting. Progress on this contract is satisfactory.

L. E. Shirley

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

K. H. Teague

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

January 25, 1954

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

January 25, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Amendment No. 3 - Docket No. DMEA-2582 - Mica
Zeb Angel
Kasson Mine
Macon County, North Carolina
Contract No. Idm-E461

The purpose of this amendment is to extend the completion date from December 12, 1953, to April 12, 1954. This amendment is necessary because the Operator was unable to complete in the specified time because equipment and personnel were needed at the Quisenberry Mine (DMEA-2974).

The Nonmetallic Minerals Division concurs in the amendment as written and executed by the Executive Officer, DMEA Field Team, Region VII.

W. C. Anderson

W. C. Anderson
Nonmetallic Minerals Division

RECEIVED
JAN 27 1954
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Seb Angel, Franklin, North Carolina.

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C. Mine site is 1/4 mile off U. S. Highway #23.

Crosscutting and test hole drilling continues on this contract. The crosscut has been driven 30 feet in a S 50° W direction in biotite gneiss and scattered quartz pods, but no pegmatite has been encountered. The crosscut is following the schistosity of the gneiss. The following test holes have been completed:

In the SE wall at 15 ft - 6 ft. hole (No pegmatite)

In the SE wall at 18 ft - 21 ft. hole (No pegmatite)

In the NW wall at 20 ft - 21 ft. hole (No pegmatite)

The operator has not been drilling his holes at right angles to the crosscut and it was agreed that all future test holes would be drilled in this manner.

It was suggested that the crosscut be scaled thoroughly before attempting any additional work and that frequent measurements on width of crosscut be made to insure compliance with the contract.

L. E. Shirley

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

K. H. Teague

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

January 11, 1954

DMP-104 (Rev.)
(April 1952)

Mr. Anderson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

175

OPERATOR'S MONTHLY REPORT AND VOUCHER

ON VOUCHER & SCHEDULE
DEPARTMENTS INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

Month of December 1953 Docket No. DMEA 2584 Contract DM-E 461
Operator's Name Zeb Angel Mine Hiss
Address Franklin, N. C.
Contract Amount 9200. Government Participation: 90 % Amount 8,280.00

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:						
xxxxx Timbering	-	644.00	644.00			
Bulldozing						
Crosscutting						
Drifting 20 ft	700.00	2625.00	3325.00			
Shafting	-	3507.00	3507.00			
(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):						
TOTALS	700.00	6776.00	7476.00	700.00	6,776.00	7,476.00

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

Jan. 2, '54 *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:

$ 630.00

Signature Cora A. Piper
(Authorized Certifying Officer)

Date JAN 13 1954 Vou. No. 175
(See other side)

70.00

7

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E46 in accordance with the terms of the contract.

Signature Laurence E. Shirley Title Mining Engr. U.S.B.M. Date Jan. 4, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE ACTING EXECUTIVE OFFICER

Signature W. M. Berk Title DMEA REGION VII Date JAN 6 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 3 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address 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	ft	700	20	3325.00	95	35.00	135	35.00
Crosscutting								
Raising	ft	--	--	3507.00	83½	42.00	85.5	42.00
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads Timbering	ft	--	--	644.00	80½	8.00	85.5	8.00
Total Distributed Costs		700.		7476.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		700.00		7476.00				

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 January 2, 1954 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)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATOR'S
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF DECEMBER, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

Accomplished:

December:

3. Moved equipment in
4. Buldozed out cut.
7. Put in 220 volt line and pump
8. Pump failed to carry head
9. Bailed water by hoist
10. Bailed water by hoist
11. Bailed water by hoist
14. Bailed water by hoist.
15. Bailed water by hoist.
16. Started drilling 30 ft. from the shat on the old drift., 50 degrees West. Mr. Teague, Shirley and friend visited mine.
17. Drilled and Shot.
18. Mucked out.
21. Hoisted water.
22. Drilled and Shot
23. Mucked out
24. Hoisted water one hour
26. Hoisted water one hour
28. Hoisted water, drilled and shot.
29. Mucked out.
30. Drilled and shot.
31. Mucked out. Length of tunnel now 20 feet. I have extension steel up to 21 feet. I am drilling two 20 ft. holes perpendicular to tunnel, one on each side of tunnel.

Zeb Angel

Zeb Angel, Operator

COPY

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JAN 1954
U. S. BUREAU OF MINES
DEPT. MIN. ADM.
Knoxville, Tennessee

RECEIVED
JAN 6 1954
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

Defense Minerals Administration
RECEIVED
DEC 31 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C.
Mine site is 1/4 mile off U. S. Highway No. 23.

Crosscutting, as provided in Amendment No. 2 of this contract, is now under way. Unwatering of the shaft and other crosscut required about 4 days. Drilling of the first round had begun at a location on the right wall of the previous crosscut approximately 30 feet from the shaft and will be driven S 50° W for 60 feet.

The operator was advised to keep the working area, in particular, and crosscut haulageway scaled thoroughly.

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

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

Dewey Amos
Dewey Amos, Geologist
U. S. Geological Survey

December 16, 1953

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

December 11, 1953

Memorandum

To: Chairman, Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region 7

Subject: Amendment No. 3, on DMEA-2582, Idm-E 461, Zeb Angel (mica)

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

Robert A. Laurence
Robert A. Laurence

RECEIVED
JAN 27 1954
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

12-14

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 3 1953

July 30, 1953

Memorandum

To: Operating Committee - DMEA - Washington

From: Executive Officer, DMEA-Region 7

Subject: Amendment No. 2. Idm-E461, DMEA-2582. Zeb Angel (mica) N. C.

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

Robert A. Laurence
Robert A. Laurence

case
8-3

FILE COPY
SURNAME:

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

JUL 28 1953

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

Subject: Docket No. DMEA-2582 - Mica
Zeb Angel
Kasson Mine
Macon County, North Carolina
Contract No. Idm-E461

Dear Mr. Laurence:

We are enclosing the original and five copies of Amendment No. 2 to the above-referenced contract which have been signed by the Administrator for the Government.

If the terms and conditions of this amendment are satisfactory to you and the operator, all six copies should be signed and the usual distribution made.

If any part of this amendment does not have either your approval or that of the Operator and cannot be amended within your delegated authority, the original and all copies of the subject amendment are to be returned to this office, together with the proposed changes for consideration.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Approved:

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

A. R. Kinkel, Jr. (JHB)
Member, Geological Survey

Enclosures 6
JHopkins:gad 7/20/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

7-23

R.C.G. 7-23-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
SOUTHEASTERN REGION
REGION VII
HAMILTON BANK BUILDING

OFFICE OF
REGIONAL DIRECTOR

POST OFFICE BOX 1909
KNOXVILLE, TENNESSEE

RECEIVED
JUL 1 3 1953

July 1[illegible], 1953

Memorandum

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

From: Administrative Officer, Region VII, Knoxville, Tennessee

Subject: Monthly reports and vouchers

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

Idn-[illegible]461 — Job Angel
Docket No. [illegible]-2502
6th payment - month of June
Amount $1089.90

Idn-[illegible]435 — Orig and Nat
Docket No. [illegible]-2677
4th payment - month of June
Amount $722.00

Idn-[illegible]425 — Sam L. Phillips, John Phillips, Jim Carpenter and Norman Washburn
Docket No. [illegible]-2607
7th and Final Payment - month of June
Amount $[illegible]
Completion Date: [illegible]/30/53

Idn-[illegible]413 — Conway Davis
Docket No. [illegible]-2575
3rd payment - month of June
Amount $772.20

Idn-[illegible]-542 — Dave Lee, Ray Lee and Sam L. Phillips
Docket No. [illegible]-2861
1st payment - month of June
Amount $1800.00
Starting Date: 6/5/53

Idm-E-393 Dixie Minerals, Inc.
Docket No. DMTA-2293
9th payment - month of June
Amount $283.50

Idm-E-431 Dixie Minerals, Inc.
Docket No. DMTA-2610
3rd payment - month of June
Amount $630.00

Helen R. Miller

Enclosures
CC: W. A. Beck
R. A. Laurence
[illegible]
[illegible]

INTERIM REPORT

DMEA-2552 Idm-E401 (mica) KASSON MINE

2582 461

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C. Mine site is 1/4 mile off U. S. Highway #23.

Work outlined under Exhibit "A" of this contract has been completed, and included sinking a vertical shaft 83 feet and driving 75 feet of drift in a S 10° W direction. No mica was recovered from this work, but granitic stringers and a pegmatite pod were cut during drifting.

The project has been suspended temporarily awaiting outcome of a proposed amendment for additional work, which the field examiners believe is necessary if the target is to be reached.

L. E. Shirley

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

K. H. Teague

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

July 13, 1953

Action indicated

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

July 7, 1953

To: Operating Committee, D M E A - Washington

From: Field Team, Region VII

Subject: DMEA-Docket No. 2582, Contract No. Idm-E461 (mica) Kasson Mine, Macon County, N. C. Operator: Zeb Angel

Work as provided in subject contract has been completed, and no pegmatite has been found. In Addition to the shaft, a crosscut was driven from the 80-foot level in a S. 10° W. direction for a distance of 77 feet in biotite gneiss which has been thoroughly injected by granite. Several layers of pegmatite less than 6 inches thick were cut, but they contained no mica.

Results to date indicate that the crosscut was located between two disconnected pegmatites and in order to locate mica pegmatite it will be necessary to drive a heading from the existing crosscut in a more westerly direction. It is recommended that an amendment be prepared providing for an additional 60 feet of drift and crosscut to be driven from the existing crosscut at a point approximately 40 feet from the shaft. This heading should be driven S. 50 W. The amendment should provide also for drilling long test holes in the top of the existing crosscut and from the new heading.

The amendment should contain the following:

60 feet drift and /or crosscut @ $35/ft.	$2,100.00
200 feet of long jackhammer holes (15-20 feet) @ $1.00 per foot	200.00
	$2,300.00

Work to date on this project has been conducted in a safe and efficient manner. The shaft is well timbered and the crosscut is in unweathered rock.

Robert A. Lawrence
Executive Officer, DMEA, Region 7

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

Form MF-104 (Reverse) (April 1952)

Bureau of Mines Mining Division
RECEIVED
JUL 15 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

6

ON VOUCHER AND SCHEDULE OF PAYMENTS ~~NOR~~ -K-2

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June 1953 Docket No. DMEA 2582 Contract No. IDM-3 461
Operator's Name Joe Angel Minerals Lead
Address Franklin, N. C.
Contract Amount, $ 6900.00 Government Participation: 90 % Amount, $ 6210.00

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 Contractors: Short Form: Prospecting	-	- 644.00	644.00			
Drilling						
Bulldozing						
Crosscutting 31 ft	1085.00	1540.00	2625.00			
Drifting Drifting -3 ft	126.00	3381.00	3507.00			
(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):						
TOTALS	1211.00	5565.00	6776.00	1,211.00	5,565.00	6,776.00

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

Date July 2, 1953 *Payee Joe Angel
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:

$ 1,089.90

Signature Cora A. Piper
(Authorized Certifying Officer)

Date JUL 10 1953 Vou. No. 6
(See other side)

6 th

12-1.10

(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. Ion E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date July 6, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lamme Title EXECUTIVE OFFICER ~~DMEA REGION VII~~ Date JUL 8 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 13 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1953 Docket No. DMEA 2582 Contract No. 124-S 461
Operator's Name Zeb Angel Minerals Mica
Address 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	ft	1035.00	31	2625.00	75	35.00	75	35.00
Crosscutting								
Raising								
Shafts	ft	126.00	3	3507.00	83	42.00	85.5	42.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	ft	--	--	644.00	00	0.00	89.5	0.00
TOTAL DISTRIBUTED COSTS		1211.00		6776.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1211.00		6776.00				

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, 1953 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)

6

INSTRUCTIONS

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

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

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

GPO 83-38475

RECEIVED

OPERATOR'S
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF JUNE, 1953

Work Accomplished:

June

1. Drilled 24 holes. Used 1½ cases powder.
2. Air too bad to work
3. Mucked
4. Mucked
5. Drilled and shot
6. Mucked out; about 2 foot, lost part of shot.
8. Drilled and shot, case and 30 sticks of powder.
9. Mucked
10. Mucked and drilled
11. Finished drilling and shot. Case and 30 sticks of powder
12. Mucked
15. Finished mucking and drilled and shot
16. Mucked
17. Mucked and drilled, shot
18. Mucked
19. Drilled and shot
22. Mucked
23. Finished mucking, drilled and shot
24. Mucking
25. Finished mucking; drilled and shot
26. Mucking
29. Drilled and shot
30. Mucked out. All headings were drilled with 24 holes, and the average of 130 sticks of powder was used each shot. Some times I averaged 5 feet per shot; other times down as low as 2 feet. At the end of this tunnel the formation has changed;overhead shows pegmatite within four feet of heading, and rocks at the bottom are more seamy; in those seams is showing stuff from veins. The field team consisting of Mr. Teague and Mr. Shirley has visited the project every two weeks since operations were started.

Zeb Angel, Operator

COPY

RECEIVED

RECEIVED
JUL 8 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

FILE COPY
SURNAME:

Feitler
Houk

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

600

June 18, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Review of Amendment No. 1 - Docket No. DMEA-2582 - Mica
Zeb Angel
Kasson Mine
Macon County, North Carolina
Contract No. Idm-E461

Purpose: To amend Article 3 of the contract to allow nine months instead of seven months for completion of the work.

Justification: Hard rock progress was slower than estimated.

Recommendation: The Nonmetallic Minerals Division concurs with the Field Team and recommends approval of the amendment as executed in the field June 8, 1953.

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:gad 6/18/53

Copy to: Admr. R. File
Docket File
Mr. Houk

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

June 15, 1953

Memorandum

To: Operating Committee, D M E A- Washington

From: Executive Officer, D M E A - Region 7-Knoxville, Tenn.

Subject: Amendment No. I. DMEA-2582, Idm-E461, Zeb Angel.

Transmitted herewith are 3 signed copies of the above subject amendment.

Robert A. Laurence

Robert A. Laurence

Cae
6-17

RECEIVED
JUN 22 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

2582

INTERIM REPORT

~~DMEA-2552~~ Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, N. C. Mine site is 1/4 mile off U. S. Highway #23.

Crosscutting continues on this project and is now at 59.5 feet. Remaining footage to be driven for completion of the contract is 15.5 ft. Material encountered has changed slightly and added quartz is showing in the face. The country rock is mica gneiss.

No change in the target is anticipated, but it appears that additional footage will have to be added to the present contract in order to reach the objective.

L. E. Shirley

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

K. H. Teague

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

June 15, 1953

FILE COPY
SURNAME:

140

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

Rewritten by
Ch. Counsel

Houk
Chambers
Kane
Butler
Chandler
Selfridge
Johnson
Hoffmann

JUN 15 1953

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

Re: Docket No. DMEA-2582 - Mica
Zeb Angel
Kasson Mine
Macon County, North Carolina
Contract No. Idm-E461

Dear Mr. Laurence:

Reference is made to the subject contract which sets the completion date at June 12, 1953.

You are hereby authorized to extend the completion date beyond June 12, since extra time is necessary to complete the work outlined in the contract. Please execute the amendment and make the usual distribution of the copies.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

A. R. Kinkel, Jr.
Member, Geological Survey

LGHouk:AEK:ep 6-11-53

Copy to: Mails & Files
Admr. R. File
Oper. Comm.
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk
Mr. Hofflund
Mr. Kane
Chron.
Pending

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~DEFENSE MINERALS EXPLORATION ADMINISTRATION~~
~~WASHINGTON, D.C.~~
BUREAU OF MINES
SOUTHEASTERN REGION
REGION VII
HAMILTON BANK BUILDING

June 10, 1953

Memorandum

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

From: Administrative Officer, Region VII, Knoxville, Tennessee

Subject: Monthly reports and vouchers

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

Idm-E-420 Everette L. Poston and R. W. Poston
DMEA Docket No. 2561
4th payment - month of May
Amount $270.00

Idm-E-435 Grigg and West
DMEA Docket No. 2677
2nd payment - month of May
Amount $891.00

✓Idm-E-461 Zeb Angel
DMEA Docket No. 2582 Feldspar
5th payment - month of May
Amount $578.70

Idm-E-469 Macon Mica Miners
DMEA Docket No. 2467
1st payment - month of May
Amount $576.00
Starting Date: 5/11/53

Idm-E-503 HRH, Inc.
DMEA Docket No. 2832
2nd payment - month of May
Amount $877.50

Idm-E-512 B. G. Thomas, Mark Hall, Charlie Hall
DMEA Docket No. 2790
1st payment - month of May
Amount $1957.50
Starting Date: 5/13/53

Enclosures

Helen R. Miller

INTERIM REPORT

DMEA-~~2552~~ 2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, North Carolina. Mine site is 1/4 mile off U. S. Highway # 23.

Crosscutting continues under contract and is now at 46 ft. No appreciable change in the material has been noted, with the exception of added quartz in the stringer material. Progress on this project was held up for a few days because of compressor breakdown and the procurement of another machine.

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

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

June 4, 1953

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

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RATION VOUCHER AND SCHEDULE
PAYMENTS NOR - 63

168

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May 195 3 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address Franklin, N. C.
Contract Amount, $ 6900.00 Government Participation: 90 % Amount, $ 6210.00

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						
~~xxxxx~~ Timbering-6ft-1.C. Bulldozing	596.00	596.00	644.00			
Crosscutting 17ft	595.00	945.00	1540.00			
Drifting Shafting	-	3381 .00	3381.00			
(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):						
TOTALS	643.00	4922.00	5565.00	643.00	4,922.00	5,565.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 31, 1953 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:

$ 578.70

Signature Cora A. Piper
(Authorized Certifying Officer)

Date JUN 8 1953 Vou. No. 168

(See other side)

5

64.30

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date June 2, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Kennemer Title EXECUTIVE OFFICER DMEA REGION VII Date JUN 5 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 1[illegible] 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1953 Docket No. DMEA 2582 Contract No. [illegible] 401
Operator's Name Lab Angel Minerals Mica
Address 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	ft	595.00	17	1540.00	44	35.00	75	35.00
Crosscutting								
Raising								
Shafts	ft	-	-	3381.00	[illegible]	42.00	85.5	42.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	ft	48.00	6	144.00	[illegible]	8.00	65.5	8.00
TOTAL DISTRIBUTED COSTS		643.00		5065.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		643.00		5065.00				

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 31, 1953 Operator [signature] Operator

Per _____ Title _____

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)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATOR'S
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF MAY, 1953

Work Accomplished:

May
1. Timbering shaft
4. Drilling and shooting
5. Rain
6. Rain
7. Mucking out
8. Mucking and drilling
9. Drilling and shooting
10. Mucking
12. Drilling
13. Drilling and shooting
14. Mucking and drilling and shooting.
15. Rain
18. Mucking, drilling and mucking out
19. Rain
20. Mucking
21. Drilling and shooting
22. Mucking, compressor broke down. nox work from the 22nd until the 29th.
29. Moved compressor back in.
30. Connected up compressor. Tunnell is 44 feet; no vein in sight. Rock is more seamy and breaks easy.

Joe Angel, Operator

RECEIVED
JUN 5 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 18 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, North Carolina. Mine site is 1/4 mile off U. S. Highway #23.

Crosscutting continues on this project and is now at 29 feet. A recent 10 ft. test hole made at 25 feet did not pick up pegmatite material. Recent heavy rains have necessitated much bailing of water and has slowed progress considerably. A simple ventilation system is being installed to provide air to the working face. No extreme change in material was noted. Operator has complied with all suggestions made during recent visits.

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

K. H. Teague

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

May 6, 1953

Mr. Fuller

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 11 1953

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

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

Month of April, 1953 Docket No. DMEA 258-2 Contract No. [illegible]
Operator's Name Joe Angel Minerals Mica
Address Franklin, N. C.
Contract Amount, $6900.00 Government Participation: 90 % Amount, $6210.00

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: Hammerson-4	380.00	526.00	906.00			
Crosscutting						
Drilling: Hammel-272c	915.00	- -	915.00			
Shelling: 4,16	189.00	3172.00	3361.00			
(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):						
TOTALS	1170.00	3752.00	4922.00	1170.00	3752.00	4922.00

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

Date April 30, 1953 Payee Joe 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:

$1,053.00

Signature Cora A. Piper
(Authorized Certifying Officer)

Date MAY 7 1953 Vou. No. 157
(See other side)

117-00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date May 1, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date MAY 5 1953

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 11 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 3 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zebulon Angel Minerals Mica
Address 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
	ft	945.00	27	945.00	27	35.00	75	35.00
Drifting								
Crosscutting								
Raising	ft	189.00	4[illegible]	3381.00	80½	42.00	85.5	42.00
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Road Blastering	ft	36.00	4[illegible]	596.00	74½	8.00	85.5	8.00
		1170.00		4922.00				Total Costs Authorized by Contract
Total Distributed Costs								
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
		1170.00		4922.00				
Total Costs								

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 April 30, 1953 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.

(Instructions on reverse)

Remarks:

(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 83-38475

OPERATOR'S
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF APRIL, 1953

Work Accomplished:

April:

1. Drilling, mucking, and shooting- very hard.
2. Drilling, mucking and shooting.
3. Drilling, shooting and mucking.
6. Drilling, shooting and mucking. Average 6 to 10 inches per day on shaft.
7. Drilling, shooting and mucking
8. Drilling, shooting and mucking.
9. Drilling, shooting and mucking, shaft now 80½ ft.
10. Started drift- put in 21 holes- 8½ft. depth. Shot and mucked out.
13. Drilling, shooting and mucking.
14. Mucking, drilling and put electric lights in mine.
15. Drilling- 21 holes ~~xxxx~~ length 5½ ft. shooting.
16. Mucking
17. Drilling
20. Mucking, drilling.
21. Mucking
22. Drilling, shooting- very hard, and no seams in rock. Streaked with little pygmatite.
23. Mucking
24. Drilling and shooting
27. Mucking and drilling and shooting.
28. Mucking and timbering
29. Timbering; drilled ten foot hole in head of drift, and have not hit vein as yet.
30. Rain.

Geb Angel, Operator

COPY

RECEIVED
MAY 5 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

RECEIVED
MAY 5 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 4 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, North Carolina. Mine site is 1/4 mile off U. S. Highway # 23.

Crosscutting continues on this project and is now at 19 feet. No pegmatite has been encountered as yet, but the extremely hard mica gneiss is becoming more granitic and quartzitic as driving proceeds.

Some of the shaft timber has been loosened recently by concussion. It was suggested that this condition be corrected as soon as practicable and all damaged timber replaced.

D. M. Larrabee, Commodity Specialist, U. S. Geological Survey, accompanied field examiners on this visit to the mine.

L. E. Shirley

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

K. H. Teague

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

April 24, 1953

DEPARTMENT OF THE INTERIOR
Bureau of Mines Publication
RECEIVED
APR 20 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) EASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina.

LOCATION: 1.7 miles airline N 60° E of Franklin, Macon County, North Carolina. Mine site is about 1/4 mile off U. S. Highway # 23.

Shaft sinking, with the exception of the sump, has been completed to a depth of 80 feet on this project. Material for the last few feet has become extremely hard and is composed of micaceous gneiss and quartz lenses. The shaft has been cribbed solid to about 75 feet.

Location of turnoff for crosscut was made and future work will be confined to 75 feet of crosscuts and drifts.

L. E. Shirley

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

K. H. Teague

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

April 10, 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
SOUTHEASTERN REGION
REGION VII
HAMILTON BANK BUILDING

OFFICE OF
REGIONAL DIRECTOR

POST OFFICE BOX 1909
KNOXVILLE, TENNESSEE

April 8, 1953

Memorandum

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

From: Administrative Officer, Region VII, Knoxville, Tennessee

Subject: Monthly reports and vouchers

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

Ida-E-432 K. L. Anglin and J. K. Elkins
Docket No. DMTA-2557
5th payment - month of March
Amount $1728.00

Ida-E-461 Zeb Angel
Docket No. DMTA-2582
3rd payment - month of March
Amount $954.00

Ida-E-410 Elk Mica Miners
Docket No. DMTA-2466
6th payment - month of March
Amount $783.00

Helen R. Miller

Enclosures
CC: R. A. Laurence
W. A. Beck

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

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

RECEIVED
APR 13 1953

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

Month of March 1953 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name ZEB ANGEL Minerals Mica
Address Franklin, N. C.
Contract Amount, $ 6900.00 Government Participation: 90 % Amount, $ 6210.00

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						
Timbering-17ft	136.00	424.00	560.00	136.00	424.00	560.00
Drifting						
Shafting 22 ft	924.00	2268.00	3192.00	924.00	2,268.00	3,192.00
(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):						
TOTALS	1060.00	2692.00	3752.00	1,060.00	2,692.00	3,752.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date April 1, 1953 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:

$ 954.00

Signature Cora A. Piper
(Authorized Certifying Officer)

Date APR 7 1953 Vou. No. 142
(See other side)

106.00

3

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date April 2, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date APR 6 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 13 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1953 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address 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								
Crosscutting								
Raising								
Shafts	ft	924.00	22	3192.00	76	42.00	85.5	42.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	ft	136.00	17	560.00	70	8.00	85.5	8.00
TOTAL DISTRIBUTED COSTS		1060.00		3752.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1060.00		3752.00				

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 April 1, 1953 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)

INSTRUCTIONS

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

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

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

GPO 83-38475

DMEA No. 2562

OPERATORS
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF MARCH, 1953

Work Accomplished:

March 2: Drilling and Shooting, mucking, hard walling and seamy
March 3: Timbering, drilling, shooting, mucking
March 4: Drilling Shooting, and mucking
March 5: Drilling, shooting and mucking
March 6: Drilling, shooting and mucking, very hard
March 9: Timbering, drilling , shooting and mucking
March 10: Drilling Shooting, and mucking; timbering and hauling timbers
March 11: Rain
March 12: Drilling and shooting - hit water at 64 feet.
March 13: Drilling and shooting and mucking
March 14: Moved compressor in
March 15: Set up compressor
March 16: Drilling, shooting, and mucking; timbering
March 17: Drilling, shooting, mucking and timbering;
March 18: Electric line run in; timbering and mucking.
March 19: Drilling, shooting, mucking and timbering
March 20: Drilling, shooting and timbering.
March 23: Rain
March 24: Bailing water, drilling, shooting, mucking; rock solid.
March 25: Drilling, shooting, mucking
March 26: Drilling, shooting
March 27: Drilled 2 hours; compressor broke down.
March 30: Drilled, shooting and mucking
March 31: Drilled, shooting and mucking.

COPY

Zeb Angel, Operator

RECEIVED
APR 8 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 airline miles N 60° E of Franklin, Macon County, North Carolina. Mine site is about 1/4 mile off U. S. Highway No. 23.

Shaft sinking continues on this project and is now at 70.5 feet. The shaft has been cribbed to the bottom and is in good condition. A 105 cfm air compressor has been obtained and is now on the job; the addition of proper drilling equipment was needed badly and should help speed up this operation. Recently the mine has begun to draw water, which necessitated bailing each day. The operator has had a three phase power line run to the mine and present plans include procurement of an electric pump to handle the water. Material encountered during shaft sinking has not changed appreciably and is principally mica gneiss.

Mr. W. A. Beck, a member of the DMEA Field Team, Region VII, accompanied the Field Examiners on this visit to the mine.

L. E. Shirley

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

K. H. Teague

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

March 24, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 26 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 airline miles N 60° E of Franklin, Macon County, North Carolina. Mine site is about 1/4 mile off U. S. Highway No. 23.

Shaft sinking continues on this project and is now at 64 feet. About 61 feet of this footage has been cribbed with 2" x 6" cut timbers. The operator has procured a gasoline engine hoist and has constructed a straight leg, boom pole for hoisting frame. This rig has been well constructed and appears adequate for sinking shaft to a depth of 85.5 feet. A guard rail to meet state safety regulations has been installed around the collar. Operator was advised to extend planking above collar to a higher level to prevent re-entrance of material accidentally into the shaft.

Mr. R. A. Laurence, Executive Officer of DMEA, Region VII, accompanied the field examiners on this visit to the mine.

L. E. Shirley

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

K. H. Teague

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

March 12, 1953

-104 (Rev.)
(April 1952)

Mr. Zeitler 127

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER AND SCHEDULE OF PAYMENTS NOR - 47

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1953 Docket No. DMEA 2582 Contract No. 103-E 461
Operator's Name Zeb Angel Minerals Mica
Address Franklin, N. C.
Contract Amount, $ 5900.00 Government Participation: 90 % Amount, $ 6210.00

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						
~~Timbering-26ft~~	~~208.00~~	~~216.00~~	~~424.00~~	208.00	216.00	424.00
Crosscutting						
Drifting						
~~Shafting 22 ft~~	~~924.00~~	~~1344.00~~	~~2268.00~~	924.00	1,344.00	2,268.00
(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):						
TOTALS	1132.00	1560.00	2692.00	1,132.00	1,560.00	2,692.00

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

Date Feb. 28, 1953 *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:

$ 1,018.80

Signature Cora A. Piper
(Authorized Certifying Officer)

Date MAR 10 1953 Vou. No. 127
(See other side)

113.20

(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. Tdm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date March 2, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date MAR 4 1953

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

-104A
1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 18 1953

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

Month of Feb. 1953 Docket No. DMEA 2582 Contract No. IDM-R 461
Operator's Name Zeb Angel Minerals Mica
Address 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	924.00	22	2268.00	54	42.00	85.5	42.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	ft	208.00	26	424.00	53	8.00	85.5	8.00
TOTAL DISTRIBUTED COSTS		1132.00		2692.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1132.00		2692.00				

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 Feb. 28, 1953 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)

INSTRUCTIONS

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

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

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

GPO 83-38475

DMEA No. 2582

OPERATORS
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF FEBRUARY, 1954

Work Accomplished:

Feb. 2: Hauling timber
Feb. 3: Shooting, mucking and timbering.
Feb. 4: Shooting, mucking and timbering. Hard walling, streaked with pygmatite.
Feb. 5: Drilling holes, shooting, and mucking.
Feb. 6: Timbering and mucking; cut boom poles.
Feb. 9: Drilling, shooting and mucking. Walling slate grey and greasy.
Feb. 10: Drilling, shooting and mucking.
Feb. 11: Rain
Feb. 12: Shooting, mucking and timbering.
Feb. 13: Shooting, mucking and timbering.
Feb. 16: Sno w.
Feb. 17: Shooting, mucking and timbering.
Feb. 18: Put in ladder, timbered up center, mucking, grey wallin.
Feb. 19: Rain.
Feb. 20: Rain
Feb. 23: Drilling, mucking, and timbering.
Feb. 24: Rain and snow.
Feb. 25: Put up jim pole, bulldozed muck out of cut, mo ved hoist in.
Feb. 26: Rigged up hoist.
Feb. 27: Drilled, shot, mucked out, and timbered shaft. Now down 54 ft., timbered to 53 ft.

Zeb Angel
Zeb Angel, Operator

COPY

RECEIVED
MAR 4 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

RECEIVED
MAR 4 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1953

INTERIM REPORT

DMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina.

LOCATION: 1.7 airline miles N 60° E of Franklin, Macon County, North Carolina. It is about 1/4 mile off U. S. Highway No. 23.

This project began on December 29, 1952 and has been worked intermittently since that date. A 5' x 7' two compartment shaft with separate manway has been sunk to a depth of 27 feet. This entire footage has been cribbed with 2" x 6" cut timbers. At the time of visit hoisting was accomplished with a hand windlass, but operator plans to use a gasoline hoist for future work. The installation of proper equipment will speed up the job. Most of the work involved in sinking had been accomplished with picks and shovels, but since hard rock was encountered at 25', drilling and shooting will begin in the near future. Material removed consisted of micaceous gneiss and weathered pegmatite lenses which had just been picked up in the bottom. The operator has complied with all safety recommendations made at time of safety inspection on January 6, 1953.

L. E. Shirley

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

K. H. Teague

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

January 27, 1953

Omen 2582

January 30, 1953

Mr. Zeb Angel, Owner and Operator
Kasson Mine
Franklin, North Carolina

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

Dear Mr. Angel:

Attached is a Safety Inspection Report of your Kasson Mine made by Mr. Roy G. Stott, mining health and safety engineer, on January 6, 1953.

Very truly yours,

M. C. McCall, Chief
Accident Prevention and Health
Division, Region VII

cc: R. A. Laurence, Room 13, Post Office Bldg., Knoxville 2, Tenn.
W. A. Beck, (3) Room 13, Post Office Bldg., Knoxville 2, Tenn.
F. H. Shuford, State Department of Labor, Raleigh, N. C.
J. L. Fitzgerald, Box 7346, Asheville, N. C.
Director, Defense Minerals Exploration Administration, Washington, D. C.
S. H. Ash
J. Westfield
A. Gabriel
J. R. Thoenen, Bureau of Mines, Tuscaloosa, Alabama
R. C. Stott
District Office

mcm

SAFETY INSPECTION REPORT
KASSON MINE (MICA)
(NEAR) FRANKLIN, MACON COUNTY, NORTH CAROLINA

January 6, 1953

By

Roy G. Stott
Mining Health and Safety Engineer

Originating Office - Bureau of Mines
210-12 Social Security Building
Birmingham 3, Alabama
M. C. McCall, Chief
Accident Prevention and Health Division
Region VII

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SAFETY INSPECTION REPORT
KASSON MINE (MICA)
(NEAR) FRANKLIN, MACON COUNTY, NORTH CAROLINA

January 6, 1953

by

Roy G. Stott
Mining Health and Safety Engineer

INTRODUCTION

This report is based on an inspection made at the request of the Defense Minerals Exploration Administration to determine conditions and practices relating to health and safety and to propose recommendations for correcting hazards. The inspection party consisted of Roy G. Stott, mining health and safety engineer, Bureau of Mines, William A. Beck and Laurence E. Shirley, mining engineers, Defense Minerals Exploration Administration, and Zeb Angel, owner and operator.

GENERAL INFORMATION

The Kasson mine is operated by Zeb Angel and his son. An exploration loan has been granted by the D. M. E. A. under Docket No. 2582, Contract Idm E-461. The loan includes deepening one of three existing shafts to a depth of 50 feet.

The mine is located on the farm of Zeb Angel about 3.1 miles N55°E of Franklin, Macon County, North Carolina.

A 25-foot wide trench, 15 to 30 feet deep, and approximately 300 feet long has been dozed across a ridge exposing a mica bearing pegmatite vein dipping steeply to the southeast. Three shallow untimbered shafts approximately 6 feet by 8 feet in cross-section have been sunk 20, 25, and 12 feet deep, respectively, along the strike of the vein which parallels the dozed cut. These shafts are situated near the toe of the up-hill side of the dozed cut and one section of the bank has sloughed in between the south and middle shafts. No one was working at the time of the inspection.

SAFETY RECOMMENDATIONS

1. A 4-foot high protective timber backwall should be erected between the bank and the lip of each shaft. The bulkhead should be constructed of at least 6-inch round oak timber or its equivalent and should extend at least 2 feet beyond the sides of the shafts. A headframe is planned for deepening the middle shaft (25 feet deep at present).

2. The shaft openings should have a protective railing of at least 42-inch height around them or be covered to prevent accidental falls into them.

3. Ladders should extend from the bottom to a distance of 36 inches above the lip of the shaft.

   Note: The operator plans to crib the active shaft and provide a separate compartment for a ladderway.

4. Men should wear hard hats while working underground.

ACKNOWLEDGMENT

The cooperation of Zeb Angel during this inspection is gratefully acknowledged.

Respectfully submitted,

/s/ Roy G. Stott

Roy G. Stott
Mining Health and Safety Engineer

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

Mr. Fuller

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

Defense Minerals Administration
VOUCHER AND SCHEDULE OF PAYMENTS NOR 7-63
FEB 11 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December 29-Jan, 195 3 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address Franklin, N. C.
Contract Amount, $ 6900.00 Government Participation: 90 % Amount, $ 6210.00

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						
~~Timbering~~ Timbering 27ft	216.00		216.00	216.00		216.00
Crosscutting						
Drifting						
Shafting 32 ft	1344.00		1344.00	1,344.00		1,344.00
(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):						
TOTALS	1560.00		1560.00	1,560.00		1,560.00

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

Date Jan 31, 1953 *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:

$ 1,404.00

Signature Cora A. Piper
(Authorized Certifying Officer)

Date FEB 9 1953 Vou. No. 104
(See other side)

1st 5/12/24/52

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E461 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date Feb. 2, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: EXECUTIVE OFFICER DMEA REGION VII

Signature Robert A. Lawrence Title ..... Date FEB 5 - 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 63-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1953

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

Month of Dec29-Jan 195 3 Docket No. DMEA 2582 Contract No. IDM-E 461
Operator's Name Zeb Angel Minerals Mica
Address 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								
Crosscutting								
Raising								
Shafts	ft	1344.00	32	1344.00	32	42.00	85.5	42.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
mbering	ft	216.00	27	216.00	27	8.00	85.5	8.00
TOTAL DISTRIBUTED COSTS		1560.00		1560.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1560.00		1560.00				

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 1/31/53 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)

INSTRUCTIONS

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

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

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

GPO 83-38475

DMEA NO. 2582

OPERATORS
MONTHLY PROGRESS REPORT
FOR THE
MONTH OF DEC 29-Jan, 1953

Work Accomplished:

Dec. 29: Two men started shaft 6 x 8 feet
Dec. 30: Worked on shaft.
Dec 31 : Drilled two holes approximately 4 ft deep, and shot same. All material sandstone and small streaks of pygmatite.

1953
Jan 1: Worked moving muck around shaft, straightened walls on shaft.
Jan 2: Drilled four holes four ft deep. Hard sandstone and walling.
Jan 5: Cleaned out shaft. Straightened walls. Shaft now approximately 11 ft deep.
Jan 6: Made preparation for timbering.
Jan 7: Having timbers logged in Georgia.
Jan 8: Rain
Jan 9: Rain
Jan 12: Drilled five holes four and one-half feet deep. Still hard walling and streaks of pygmatite. Sawed timbers to catch overhead bank on south side of shaft.
Jan 13: Rain
Jan 14: Hauled timbers to mine.
Jan 15: Put in four rounds of timber. Finished hauling timbers to mine.
Jan 16: Put in nine rounds of timber.
Jan 19: Built ladders for shaft, and installed. Put in escapes. Five rounds of timber .
Jan 20: Put in two rounds of timber, Drilled five holes and shot. Hard
Jan 21: Mucked out and put in four rounds of timber.
Jan 22: Mucked out and sawed timbers. Put in four rounds of timber. Started drilling. Still hard walling. More streaks of Pygmatite.
Jan 23: Finished drilling. Five holes. Mucked out.
Jan 26: Finished mucking, put in four rounds of timber.
Jan 27: Drilled five holes and shot. Mucked out. Put in three rounds of timber. Shaft now 27 feet deep.
Jan 28: Drilled four holes and shot and mucked.
Jan 29: Cleaned muck and put in timbers.
Jan 30: Shot five holes and mucked. Shaft now 32 feet.

COPY

Geo Angel

2582

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 31 1952

INTERIM REPORT

IMEA-2582 Idm-E461 (mica) KASSON MINE

OPERATOR: Zeb Angel, Franklin, North Carolina

LOCATION: 1.7 airline miles N 60° E of Franklin, Macon County, North Carolina. It is about 1/4 mile off U. S. Highway No. 23.

This visit to the mine was made in the company of Zeb Angel. Shaft location was made and contract reviewed with operator. Mr. Angel expects to begin work on the shaft around January 1, 1952.

L. E. Shirley

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

December 19, 1952

Stanley Pegmatite

F.T. sunk shaft on n. side of pegmatite on
85' shaft + 75' pegmatites

Dec 19 - Shaft work began around 1/1/52 ~~1/1/52~~
Jan 27 Project began 12/28/52 Shaft at 27'
sunk with jackets shovels. mica gneiss
March 12 - at 64' mica gneiss
Nov 24 at 70.5 mica gneiss
Apr 10 at 80' mica gneiss & fly [illegible]
Apr 24 X cutting at 19' gneiss
May 6 X cutting at 29 mica gneiss 10' [illegible] 25'
June 4 X cutting at 46' mica gneiss

July 7 - 80' shaft 77' X cut SIOW -
resumed to 60' drift + 200' [illegible]
#2300 - Results of work done to date indicate
X cut is between two pegmatites

July 13 - Shaft 83' - 75' drift SIOW - coming rock

Dec 16, X cutting started
Jan 11 X cutting at 30' SSOW biotite gneiss
Jan 25 - X cut at 34' stretch pegmatite

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

Room 13, Post Office Building
Knoxville 2, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 22 1952

December 19, 1952

Memorandum

To: Operating Committee, D M E A - Washington

From: Executive Officer, D M E A - Region 7

Subject: DMEA-2582, Idm-E461 (mica) Zeb Angel. Signed Contract.

Attached are 3 copies of the above signed contract. One copy was retained by this office, one by the Operator, and one sent to the Finance Office.

Robert A. Laurence
Robert A. Laurence

cal
12.22

FILE COPY
SURNAME:

Feitler
Houk
Chambers

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

DEC 12 1952

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

Subject: Docket No. DMEA-2582 - Mica
Zeb Angel
Franklin, North Carolina
Kasson Mine
Macon County, North Carolina

Dear Mr. Laurence:

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

The time to be allowed for starting and completing the work should be inserted in Article 3 of the Contract. If the contract meets with your approval, present it to the operator for his approval and signature. If any provisions are unsatisfactory to the operator, return all copies to this office along with suggested changes for consideration. The operator's attention should be directed especially to Annex I. If any detail is incorrect, the contract should be returned for revision.

Please explain to the operator that this is a firm contract to complete the work outlined in the contract for his own account should his per foot costs exceed the unit costs provided in the contract.

After signing the contract, one copy is to be given to the operator, one copy retained for your files, one copy for the Finance Officer, and the remaining copies, including the original, are to be returned to this office as soon as possible.

Sincerely yours,

Ernest Wm. Ellis

(WB)

ACTING Chairman, Operating Committee

12-12-52

Approved:

J. H. Hedges (WB)

Member, Bureau of Mines

A. R. Kinkel, Jr. (WB)

Member, Geological Survey

Enclosures 6

SAFeitler:gad 12/11/52
Copy to: Admr. R. File
Operating Committee (2)
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

600

December 10, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Resume - Docket No. DMEA-2582 - Mica
Zeb Angel
Franklin, North Carolina
Kasson Mine
Macon County, North Carolina

Recommendation:

The attached contract provides $6,900.00 to sink an 85.5 foot shaft and drive 75 feet of crosscut and drifts. This follows the Field Team recommendation and merits approval.

Conclusions:

The applicant is an experienced mica miner and an efficient operation is anticipated.

Early operations at this mine are reported to have been successful. Recent bulldozing by the applicant has uncovered mica which is classed as strategic by the General Services Administration Mica Buyer at Spruce Pine, North Carolina

The proposed exploration program appears to have a good chance for success.

Chronology:

Application received 6/16/52
Requests $1,127.00 to rehabilitate adit at the eastern end of the mine.
U.S.G.S. memo 6/18/52.
Refer to field.
U.S.B.M. memo 6/19/52.
Refer to field.
Referred to field 7/14/52.
Letter from Region VII 8/4/52.
Applicant requests field examination be

delayed until bulldozing is completed.

Field report received 11/3/52.
Recommends contract for $6,875.00 to sink and 85 foot shaft and to drift and crosscut a total of 75 feet. Lease and Owner's consent to Lien for 1/2 interest in the property with the report.

Contract prepared 11/17/52.

To Legal Division 11/19/52.

U.S.B.M. Memo received 11/19/52
Recommends exploration contract

U.S.G.S. Memo received 11/24/52
Concurs with Field Team

From Legal Division 12/9/52
Contract satisfactory subject to
(1) insertion in the Owner's Consent to Lien of the date thereof (which must be prior to the date of the contract). The amount of the Lien and the name of the operator.

Verbal communication 12/10/52 from J. L. Hofflund via A. Kane (Legal Division) that the Owner's Consent may be completed by the commodity Division as the Owner signed in blank.

Letter of transmittal to Region VII 12/10/52.

Stanley A. Feitler

Stanley A. Feitler
Nonmetallic Minerals Division

UNITED STATES 140
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

December 9, 1952

Memorandum

To: Administrator

Through: L. G. Houk

From: Chief Counsel

Subject: Zeb Angel - Docket No. DMEA-2582 - Mica

There is attached, in satisfactory legal form for execution, a contract covering the above-described project, subject to (1) insertion in the Owner's Consent to Lien of the date thereof (which must be prior to the date of the contract), the amount of the lien and the name of the Operator.

J. L. Hofflund
Chief Counsel

Attachment

IN REPLY REFER TO:
G-MD-CNM

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

November 21, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 24 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2582 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration.
From: J. J. Norton, U. S. Geological Survey
Applicant: Zeb Angel, Franklin, North Carolina.
Name of property: Kasson or Holbrook mine.
Location of property: 1.7 miles N. 60° E. of Franklin, N. C.
Date of field team report: October 31, 1952.
Authorship of field team report: K. H. Teague and L. E. Shirley.
Field team's recommendation:

Explore western pegmatite by 85-foot shaft and 75 feet of drifts and crosscuts--estimated cost $6,875.

Comments: Map shows 130 feet of proposed drifts and no crosscuts.
ACTION SUGGESTED:

Follow field team's recommendation.

J. J. Norton

J. J. Norton

BUREAU OF MINES
WASHINGTON, D. C.

Nov 24 12 02 PM '52

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

Defense Minerals Administration
RECEIVED
NOV 17 1952

November 17, 1952

Mr. Feitler

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Acting Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2582, Kasson Mine, Macon County, North Carolina.

I concur in the field team's recommendation for an exploration project in the amount of $6,875.

Brooke L. Gunsallus

Brooke L. Gunsallus

Zeb Angel
Kasson Mine
Exhibit A

2582

Description of the Work

The Government will specify the location, direction, and extent of all excavation.

Excavate 85.5 feet of shaft 5 feet by 7 feet in cross section divided into two compartments and located approximately as shown on the map entitled "Sketch of Kasson Mine - Macon Co., N.C. - DMEA 2582" attached hereto and made part hereof. From the 80 foot level of the shaft crosscut and drift not to exceed 75 feet approximately as indicated on the above map.

Agreed Project Costs

Shaft, exclusive of timbering, 85.5 feet at $42.00 per foot	$3591.00
Shaft timbering - 2" cribbing, including material and labor 85.5 feet at $8.00 per foot	684.00
Drift and crosscut 75 feet at $35.00 per foot	2625.00
Total cost of the project	$6900.00
Government contribution at 90%	6210.00

DRAFT - AE[illegible]ne/ema
12/2/52

ZEB ANGEL
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2582

ANNEX I

The property referred to in Article 2 consists of that certain tract of land (in which the Operator owns or leases all the mineral rights and mining privileges) described in a deed from R. S. Jones, Commissioner, to Macon County, said deed bearing date of September 20, 1940 and registered in the office of the Register of Deeds for Macon County, North Carolina in Book V-4 at page 230.

The foregoing mineral rights and mining privileges are the same as those granted under the deed from Frank Siersma to the Operator dated June 5, 1952, as recorded in the office of the Register of Deeds for Macon County, North Carolina on page 506, Book A-6.

A half-interest in the above mineral rights and mining privileges was duly conveyed by the Operator to E. J. Whitmire and Fred A. Moore, ~~Operators~~ doing business as Macon Construction Company, who, by instrument dated October 25, 1952, leased the same to the Operator for a period of three years with an option to purchase the same.

Copartners

DRAFT - AEKane/ema
12/2/52

ZEB ANGEL
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2582

EXHIBIT "A"

Description of the Work

The object of this contract is mica exploration and the Government will specify the location, direction, and extent of all excavations.

The work will consist of:

Excavating 85.5 feet of shaft, 5 feet by 7 feet in cross-section, divided into two compartments and located approximately as shown on the map entitled "Sketch of Kasson Mine - Macon Co., N. C. - DMEA-2582" attached hereto and made a part hereof. From the 80 foot level of the shaft, there will be crosscutting and drifting not to exceed 75 feet approximately as indicated on the above map.

AGREED ESTIMATED COSTS

Shaft excavation exclusive of timbering - 85.5 feet @ $42.00 per foot	$3,591.00	
Shaft timbering - 2" cribbing including materials and labor - 85.5 feet @ $8.00 per foot	684.00	
Drifting and crosscutting 75 feet @ $35.00 per foot	2,625.00	
Total Cost of the Project		$6,900.00
Government Participation @ 90%		$6,210.00

DRAFT - AEKane/ema
12/2/52

Memo to ~~Administrator~~

Re: Zeb Angel - Docket No. DMEA-2582

There is attached, in satisfactory legal form for execution, a contract covering the above-described project, subject to (1) insertion in the Owner's Consent to Lien of the date thereof (which must be prior to the date of the contract), the amount of the lien and the name of the Operator; and (2) ~~the~~ verification of the Operators interest in the property ~~as indicated~~ in the ~~memorandum in the file~~ to Mr. Feitler, ~~dated~~ December 3, 1952.

DRAFT - AEKane/ema
12/2/52

Memorandum to Mr. Feitler

With reference to the proposed Exploration Project Contract with Zeb Angel, DMEA 2582 kindly obtain further information as to the ownership of the land.

The application indicates that the Operator is the owner of the mineral rights and mining privileges in land conveyed by deed by Frank Siersma on June 5, 1952. Presumably this deed was to the Operator although this is not explicitly stated.

The field team reports that the operator sold a half interest in this property but does not indicate to whom or when it was sold. However, the

lease and option agreement states that Messrs. Whitmire and Moore leased to the operator one-half of the interest in the mineral rights and mining privileges on land described in a deed from one R.S. Jones dated September 20, 1940.

Both the deeds above-mentioned apparently are recorded but we have no way of knowing whether they refer to the same property.

This contract is being drawn on the assumption that Article 2 refers to the mineral rights in the land deeded by Siersma to the Operator and in which the Operator conveyed a one-half interest to Messrs. Whitmire and Moore, who in turn leased this one-half back to the Operator.

Please have these facts verified before the contract is signed.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS Exploration ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Room 13, Post Office Building
Knoxville 2, Tennessee

Kas

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

October 31, 1952

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team - DMEA - Region 7

Subject: Field Examination Report on DMEA-2582, Kasson Mine (mica)

Transmitted herewith are the original and three copies of the above subject report with six extra copies of the map.

In addition to the above, six executed copies of the "Owner's Consent to Lien", Form MF-203, as well as a copy of the applicant's lease are enclosed herewith.

The Field Team is in agreement with the recommendations set forth in this report.

Wm. A. Beck

Wm. A. Beck, Acting Executive Officer
DMEA Field Team, Region 7

Benjamin Gildersleeve

Benjamin Gildersleeve, Geologist
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE

11-10-52
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

On-site Exam. Rpt.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2582, KASSON MINE - (mica)
Franklin, Macon County, N. C.

BY
Kefton H. Teague, Geologist
U. S. Geological Survey
-
Lawrence E. Shirley, Mining Engineer
U. S. Bureau of Mines

October 31, 1952

Reviewed by
DMEA OPERATING COMMITTEE

11-10-52
(date)

Field Examination
on
DMEA-2582, KASSON MINE - (mica)

Applicant: Zeb Angel, Franklin, North Carolina

This deposit appears to warrent exploration. Old mining activity at this place was apparently profitable and recent bulldozer trenching recovered about three tons of block mica which has been classed as strategic grade.

This application was received in the Knoxville office on July 16, 1952. When the Applicant was contacted he requested that the application be held in abeyance until the bulldozer work on the property was completed. Now that the trenching is completed, the applicant desires to have the application processed. The property was examined on October 20, 1952. The applicant, Zeb Angel, accompanied the Field Team on the examination which required two hours.

The Kasson or Holbrook Mine is located 1.7 airline miles N.60° E. of Franklin, Macon County, North Carolina. It is about one quarter-mile east of U. S. Highway No. 23. Access to the mine is good.

The Applicant has had a great deal of experience mining and processing mica. He appears to be competent to conduct the operation. Since the application was filed, the applicant has sold one-half undivided interest in the mineral rights on the property. Enclosed is a copy of a lease covering this half interest and the necessary signed "Owner's Consent to Lien" forms. The lease appears to be in good standing.

The workings are in two groups as shown on the attached map. Those on the northeast consist of a 60-foot caved shaft which connects with a 105 foot drift that extends from near the level of the small stream. Overhand stopes were made from this adit.

The workings on the top of the hill consist of several caved openings. They include a caved 72-foot shaft with 10 foot crosscuts at the 52-foot and 72-foot levels and drifts that extend 80 feet west and 35 feet east at both these levels. An airshaft, caved, connects these drifts to the surface. A caved 25-foot shaft, east of the 72-foot shaft is reported to be on pegmatite.

Recent bulldozer work has exposed the western part of the western pegmatite. This cut is about 200 feet long, 40 feet wide, and a maximum depth of 30 feet. Pegmatite is exposed along the southeastern side of the cut.

The country rock is mica gneiss with occasional bands of horn-

blende gneiss. The foliation strikes N.80° E, dipping steeply to the northwest. The pegmatite which is only poorly exposed varies in strike from N. 60° to 80° E, with a near vertical dip. The western workings were made in a pegmatite, reported to range from 3 to 8 feet in thickness with a prominent medial streak of quartz. This streak is reported to range in thickness from a few inches to two feet. At the east end of the workings the quartz rib is absent and little mica is present. The mica is in the feldspathic part of the pegmatite and occurs on both sides of the quartz.

The recent work has resulted in the recovery of approximately three tons of block mica. Books up to 12 inches across were recovered.. The mica is hard, ruby colored, and splits well. A little of it contains small black spots (biotite?) and some of the books are slightly curved. Samples of mica from this mine has been classified as suitable for stockpiling by the Spruce Pine Mica Depot.

The deposit is said to have been first opened by the Kasson Mining Company, and to have been reopened in 1910 by C. T. Holbrook. J. B. Sanders and L. C. Bailey operated it in 1938, and M. A. Pearce worked it from March to April in 1944. It is reported that the early operations were very successful.

Adequate labor, materials, and supplies are available locally.

The Applicant proposes to clean out, retimber, and expose the pegmatite in the caved drift at the east end of the property. It would appear from the past history that most of the mica produced from this deposit came from the western pegmatite; therefore, the Field Team is of the opinion that exploration should be conducted on the western pegmatite. It would appear that the deepest workings in this portion of the property do not exceed 75 feet in depth, thus by sinking a shaft on the north side of the pegmatite in the new bulldozer cut all of the openings will be in new ground.

The Field Team recommends that an 85-foot shaft at the approximate position as shown on the attached map be sunk and 75 feet of crosscut and drifts be driven from the 80-foot level. Since the old workings are about 75 feet deep and the bulldozer cut is 30 feet deep at this point, drifts on the 80-foot level of the new shaft will be approximately 35 feet lower than the deepest workings.

Estimated cost of this proposed program are as follows:

85-foot 5' x 7', 2-compartment shaft @ $50/ft.	$4250.00
75 feet of 5' x7' drifts and crosscuts @ $35/ft.	2625.00
Estimated Total Cost	$6875.00

Estimated time required - 100 shifts.

October 20, 1952

K. H. Teague, USGS

L. E. Shirley, USBM

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

Room 13, Post Office Building
Knoxville 2, Tennessee

August 4, 1952

Memorandum

To: Operating Committee, D. M. E. A. Washington

From: Executive Officer, DMEA- Region 7

Subject: DMEA-2582-Kasson Mine (mica) Zeb Angel, applicant

Pursuant to your letter of July 14, field examination was made of subject application last week. Applicant is doing considerable stripping and trenching at his own expense and request a 10-day delay in filing field examination report, pending results of this work.

Accordingly, we will not submit this report until Applicant has been contacted again.

Robert A. Laurence

Robert A. Laurence

FILE COPY
SURNAME:

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

JUL 14 1952

Feitler
Houk
Selfridge
Hedges

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

Subject: Docket No. DMEA-25[illegible] - Mica
Kassom Mine
Macon County, North Carolina

Dear Mr. Laurence:

The subject application proposes to explore the Kassom Mine near Franklin, North Carolina.

Although Mr. Angel has submitted very little definite information about this mine, it is felt that economy will best be served by a field examination when it is convenient.

A typical sample of mica should be evaluated by the Buying Program appraisers.

If the field report is favorable, a suitable exploration program should be included as well as a statement about the location of the mine with respect to the property lines.

You have a copy of the application, and we enclose pertinent memoranda from the U. S. Bureau of Mines and the U. S. Geological Survey.

Sincerely yours,

George C. Selfridge
(JHB)

ACT... Chairman, Operating Committee
Defense Minerals Exploration
Administration

Approved:
J. H. Hedges (JHB)
Member, Bureau of Mines
T. P. Thayer (JHB)
Member, Geological Survey

Enclosures 2

SAFeitler:gad 7/9/52
Copy to: Admin. Reading File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk
Operating Committee (2)

FILE COPY
SURNAME:

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

S Feitler
Houk
Thayer

JUL 14 1952

Mr. Zeb Angel
Franklin, North Carolina

Subject: Docket No. DMEA-2582
Lassen Mine
Macon County, North Carolina

Dear Mr. Angel:

Your application is being referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee, for further information.

Sincerely yours,

(signed) FRANK E. JOHNSON (for)
Acting Administrator
Defense Minerals Exploration Administration

SAFeitler:gad 7/9/52

Copy to: Admin. Reading File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Field Team, Region VII
Operating Committee (2)
Mr. Houk

IN REPLY REFER TO:

G-MD-PLW

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

SAF

June 18, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2582 (Mica).

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.
From: P. L. Weis, U. S. Geological Survey.
Applicant: Zeb Angell.
Name of property: Kasson Mine.
Location of property: Macon County, North Carolina.
Estimated cost of project: $1,127.
Summary of applicant's proposal:

(1) Clean out and retimber tunnel near east end of pegmatite.
(2) Expose the vein for operation.

Sources of information on applicant's property: None.
Comments: None.
RECOMMENDATION: Examination by the field team.

Paul L. Weis

Paul L. Weis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

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

June 19, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2582, Zeb Angel, Franklin, North Carolina

On the basis of the applicant's description of past operations and present exposures, a field team investigation is recommended. The Geological Survey (Professional Paper 225, p. 73) tested 13 pieces of mica indicating 100 percent of E-1 capacitor quality and color was classed as cinnamon brown, generally acceptable as ruby mica. Applicant indicates past production valued at more than $25,000 of strategic ruby mica with sheets up to 4" x 6". Activity ceased in 1911 at this mine.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

JUN 20 1952

EXPLORATION

Subject: DMEA-2582
Re: Exploration Loan
Kasson Mine
June 17, 1952

Mr. Zeb Angel
Franklin
North Carolina

My dear Mr. Angel:

This will acknowledge receipt of your application dated June 11, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2582 and referred to the Non-Metallic Minerals Division.

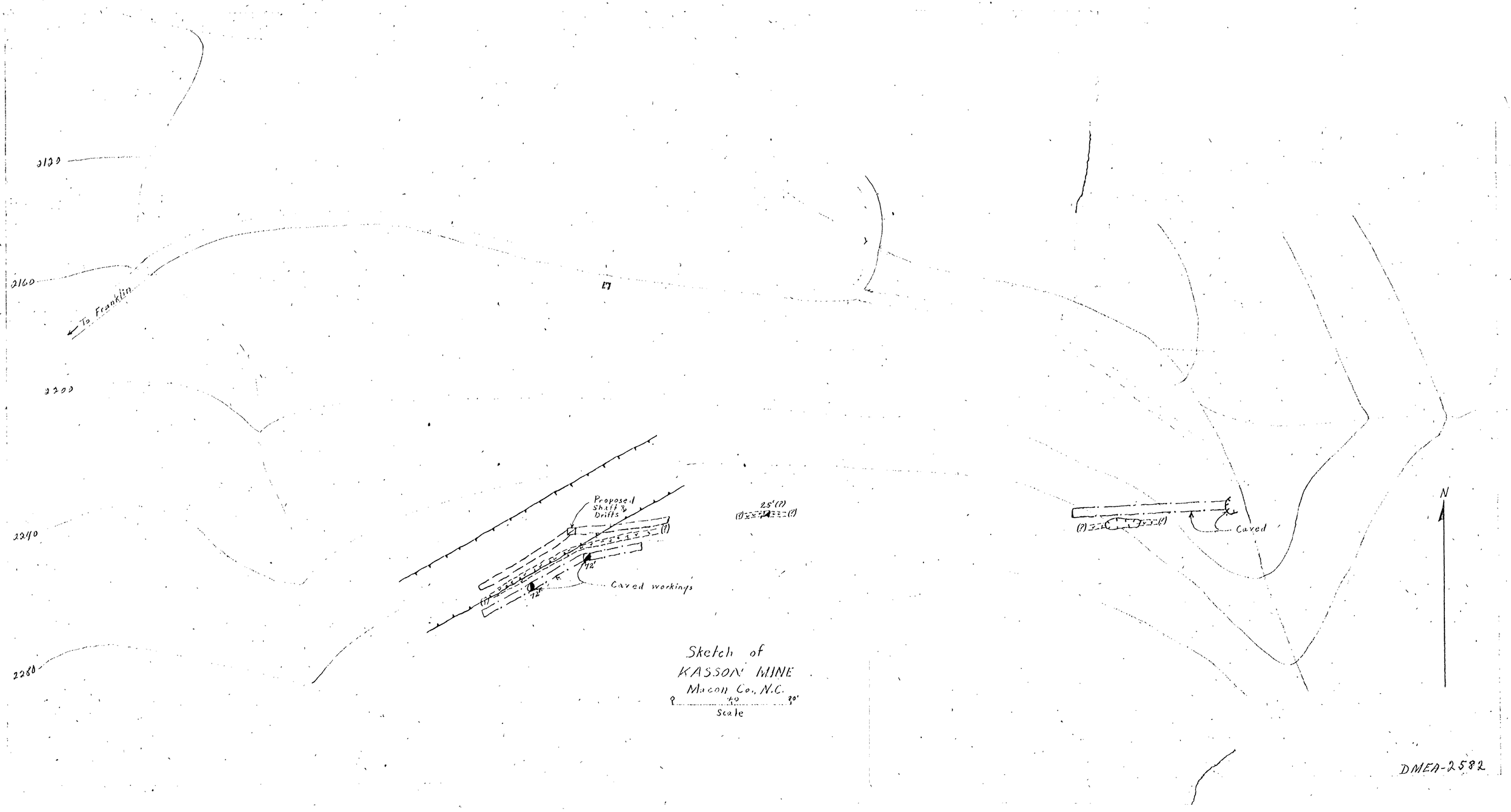
Kindly refer to DMEA-2582 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862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Macon Co., N.C.
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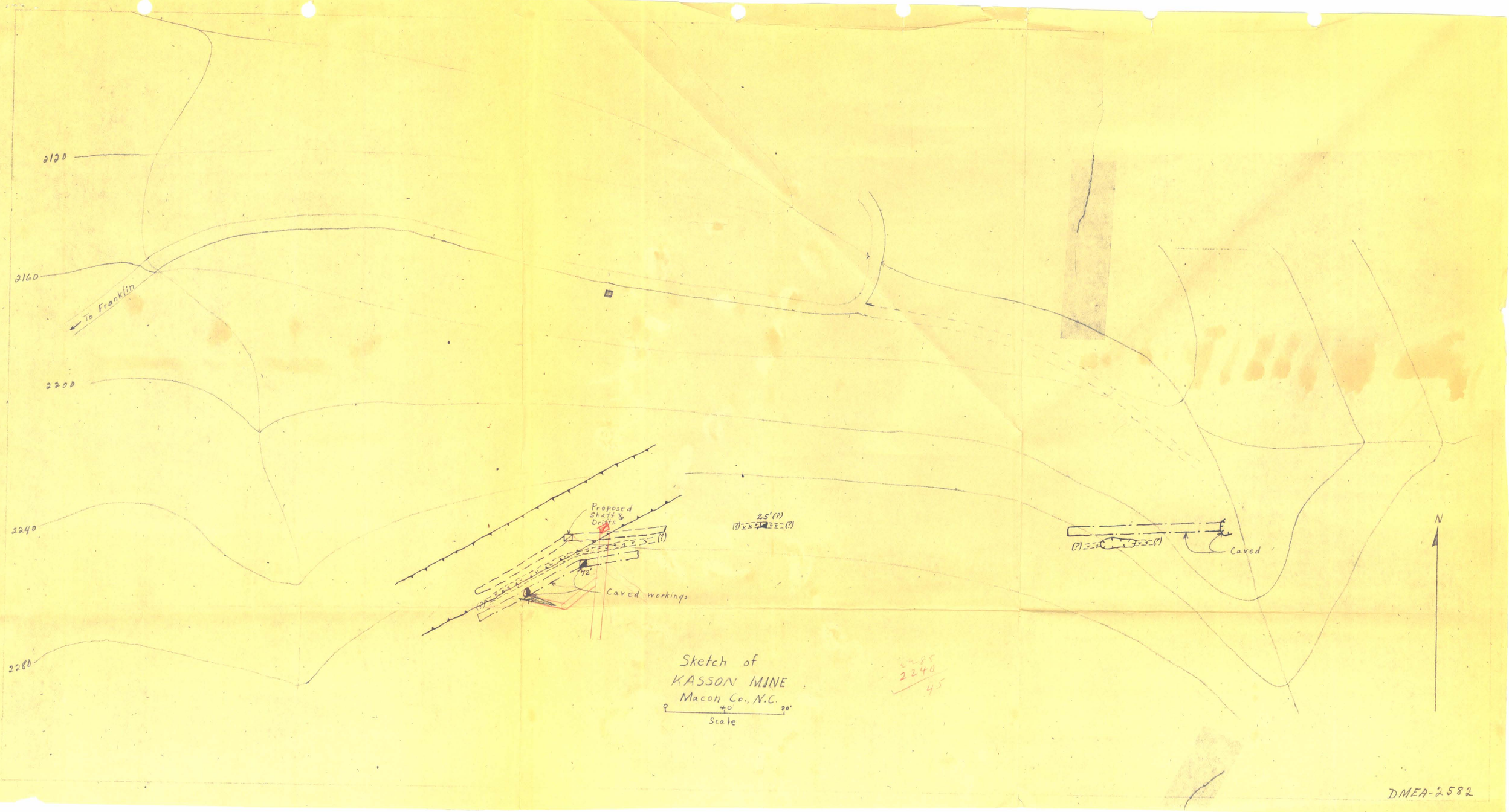
Scale
DMEA-2582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Sketch of
KASSON MINE
Macon Co., N.C.
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2240
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DMEA-2582