DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Roby M. Buchanan and Joe Snyder, Partners
d/b/a Buchanan and Snyder
Route 1
Bakersville, North Carolina

pertaining to Exploration Project Contract No. Idm-8845, Docket No. DMEA-3821, for the months of August 1955 to November 1955, inclusive, covering a project for the exploration of mica on property, known as Jim Riddle Mine, located in Yancey County, North Carolina.

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

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

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

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

Total cost as billed by Contractor		$4,764.00
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$4,764.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Three thousand five hundred seventy-three and no/100 Dollars

$3,573.00

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

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

December 20, 1955

Division Copy

RECEIVED
AUG - 8 1955

MF-200A
(Revised June 1954)

Docket No. DMEA-3821

Commodity Mica

Contract No. Idm-E 845

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

It is agreed this JUL 21 1955 day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Roby M. Buchanan and Joe Snyder, partners, d/b/a Buchanan and Snyder,

whose mailing address is Route 1
Bakersville, North Carolina,

hereinafter called the "Operator," as follows:

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

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

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

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] ....recorded in Book 114, pages 356 & 358 official records of said County; and

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

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

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

16—70618-1

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

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of alca. The work to be performed is described in Exhibit "A." The Operator on or before SEP 1 1959 shall commence the work, and on or before January 31, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

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

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

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $4,764.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $3,573.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

BUCHANAN and SNYDER
(Operator)

By Joe Snyder

By Foley M. Buchanan

THE UNITED STATES OF AMERICA

By O. P. Mitkendorf
Administrator, Defense
Minerals Exploration
Administration

Contr.
Hoffmann
Appd. Sol. Off.
Anderson
J. L. Krouse
Chandler
Hearlin

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

.....

[CORPORATE SEAL]

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

RE
AUG -

EXPLORATION PROJECT CONTRACT
BUCHANAN and SNYDER
DOCKET NO. DMEA-3821

ANNEX I

The land referred to in Article 2 of the contract form is known as the Jim Riddle Mine. This mine is located along the west side of a south flowing tributary of Cattail Creek, west of Grassy Ridge, 1.25 airline miles due east of Pensacola, Yancey County, North Carolina, and is described as follows:

> Beginning on a Chestnut, J. C. Wilson's corner, and runs a Northwest course, a marked line to the top of Arthur Ridge to a locust corner in R. R. Ray's line; thence down the main height of said ridge to R. R. Ray's and E. J. MCMahan's corner; thence a South course with E. J. MCMahan's line to a chestnut marked as a corner and pointers; thence a South course with John G. MCMahan's line to a Chestnut Oak stump, a corner of the Hiram Ray old tract of land; thence an East course with Hiram Ray old line to the beginning. Containing 25 acres more or less.

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AUG - 8 1955

EXPLORATION PROJECT CONTRACT
BUCHANAN and SNYDER
DOCKET NO. DMEA-3821

EXHIBIT "A"

Description of the Work

Exploration for concentrations of strategic mica shall be accomplished in the area indicated on the map entitled "Sketch of Jim Riddle Mine, Yancey Co., N. C. DMEA-3821 (mica) June 17, 1955," as follows:

1. Construct:

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

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

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

The toolhouse may be unfloored; shall be made from rough, unfinished lumber, with protective roof covering; and shall be equipped with lock and key.

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

2. Drive an aggregate of not more than 150 feet of crosscut and drift. The crosscut shall be driven from the portal to intersect the pegmatite, from which point the drift shall be driven on the pegmatite, as indicated on the attached sketch map.

The crosscut and drift shall be timbered as necessary and shall have minimum cross-sections of 5 feet by 7 feet in the clear of timber.

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

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

Constructing:	Toolhouse 1/	$ 76.00	
	Powder magazine 1	25.00	
	Exploder magazine 1/	13.00	
Driving :	150 feet of crosscuts and drifts @ $31.00/ft.	4,650.00	
	Estimated total cost of the project		$4,764.00
	Government participation @ 75%		$3,573.00

1/ The completed work constitutes the unit.

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Yancey, State of North Carolina, described as follows:1/ Situated in Pensacola Township, in Yancey County, State of North Carolina, and known as the Jim Riddle Mine. Begining on a Chestnut, J.C. Wilson's corner, and runs a Northwest course a marked line to the top of Arthur Ridge to a locust corner in R.R. Ray's line; thence down the main height of said ridge to R.R. Ways & E.J. McMahans corner; thence a South course with E.J. McMahan's line to a chestnut marked as a corner and pointers; thence a South course with John G. McMahan line to a Chestnut Oak stump, a corner of the Hiram Ray old tract of land; thence an East course with Hiram Ray old line to the begining. Containing 25 acres, more or less.
which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

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

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

None

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

None

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

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

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

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

5. Added provision: _____

None

Dated this 16th day of May, 1955.

G. F. Riddle [Seal] Route 2, Martin, Tenn.

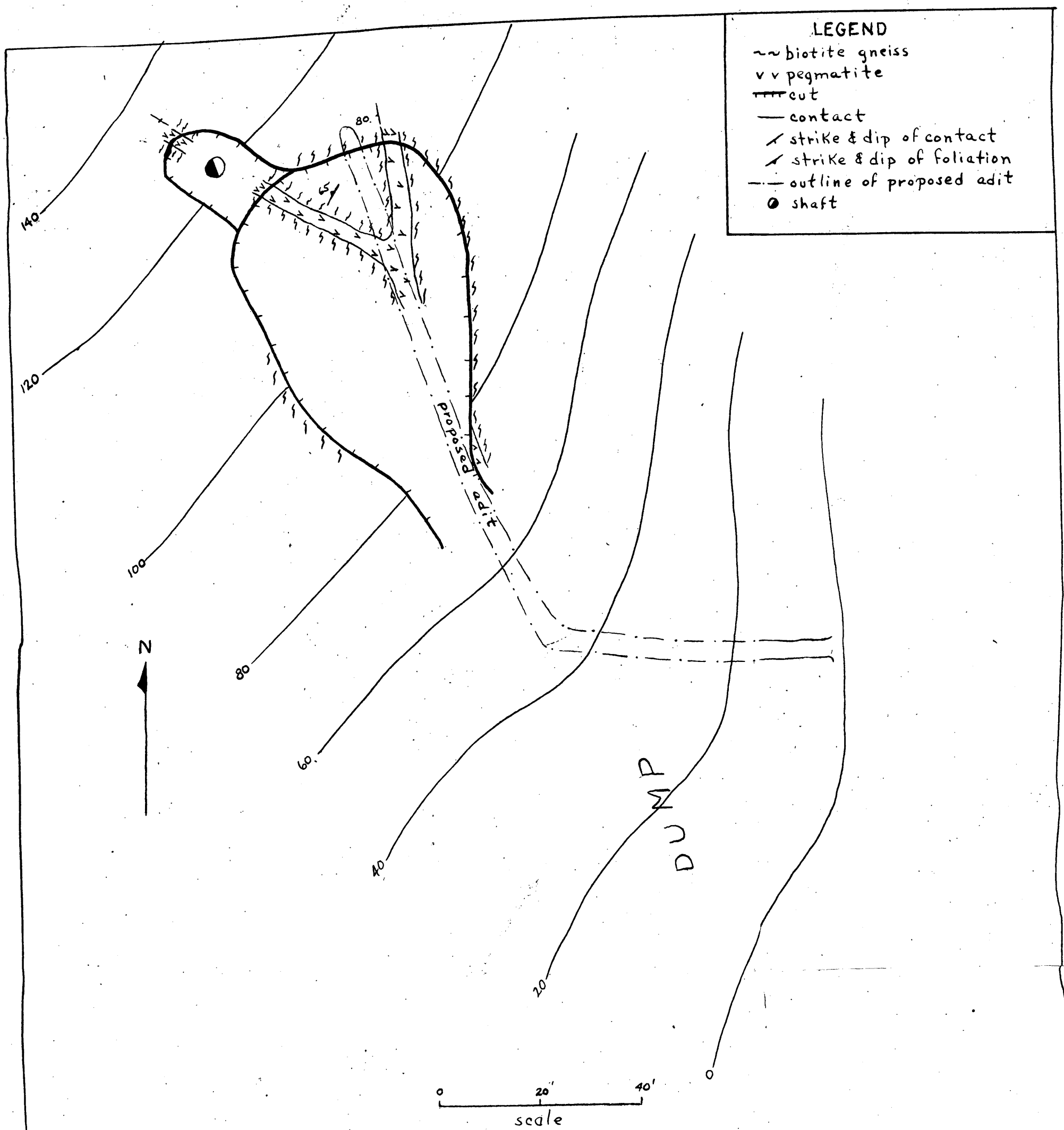
Sudie W. Riddle [Seal]

_____ [Seal]

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

_____

[Corporate Seal]



SKETCH OF
JIM RIDDLE MINE
YANCEY CO., N.C.

DMEA-3821 (mica)
June 17, 1955

RECEIVED
AUG - 8 1955

RECEIVED
JUL - 5 1955

600

NOV 2 6 1956

Messrs. Roby M. Buchanan and
Joe Snyder
Route 1
Bakersville, North Carolina

Re: Docket No. DMEA-3821-Mica
Buchanan & Snyder
Jim Riddle Mine
Yancey County, North Carolina
Contract No. Idm-1845

Gentlemen:

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

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

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

Sincerely yours,

G. O. Ellmaker

Administrator

WCAndersen:gad 11/20/56
Copy to: Admr. R. File
Docket
Field Team, Region V
Mr. Chambers
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Mr. R. L. Riddle and
Mrs. Sudie W. Riddle
Route 2
Martin, Tennessee

Mr. and Mrs. R. L. Riddle
Route 2
Martin, Tennessee

Re: Docket No. DMEA-3841-Mica
Buchanan & Snyder
Jim Riddle Mine
Yancey County, North Carolina
Contract No. Idm-E545

Dear Mr. and Mrs. Riddle:

Reference is made to the Consent to Lien which you executed on May 16, 1955, in connection with the DMEA contract for an exploration project on your property located in Yancey County, North Carolina.

For your information, there is enclosed a copy of our letter of this date to Messrs. Roby M. Buchanan and Joe Snyder advising that the Government retains no claim or lien against the property described in the contract or on any future production therefrom.

Sincerely yours,

C. O. Bittenbender

Administrator

Enclosure

WCAnderson:gad 11/20/56
Copy to: Admr. R. File
Docket
Field Team, Region V
Mr. Chambers
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

November 20, 1956

Project Summary Report
(Supplement to Report of May 1, 1956)

By: Walter C. Anderson

1. Docket No. DMEA-3821-Mica
Roby M. Buchanan and Joe Snyder
d/b/a Buchanan and Snyder
Jim Riddle Mine
Yancey County, North Carolina
Contract No. Idm-E845

2. Total production of mica from the Jim Riddle Mine up to June 16, 1956:

To G.S.A.	51.44 lbs.	$295.88
Scrap	1 ton	36.00
Total		$331.88
Royalty paid		$16.59

The mine is not being worked now.

3. Comments:

(a) By Field Team
(1) The magnitude of the reserves is estimated at 7,000 pounds of block mica having a value of about $2,000 after sheeting.
(2) Both the Operators and the Examiners were of the opinion that an economic operation was indicated.

(b) The Nonmetallic Minerals Division is of the opinion that a total reserve of $2,000 worth of mica does not indicate an economical operation and does not justify certification. It appears to be a clear cut mathematical deduction.

Walter C. Anderson
Nonmetallic Minerals Division

WCAnderson:gad 11/20/56
Copy to: Admr. R. File
Mr. Houk

Project Summary Report

May 1, 1956

By: Walter C. Anderson

1. Docket No. [illegible]-3821-micn
   Contract No. Lbm-[illegible]5
   Jim Riddle Mine
   Yancey County, North Carolina

   Application: MF-[illegible]3(April 195[illegible]) received May 20, 1955
   Work proposed:
   100 feet of drifts
   Amount requested:
   $4,099.86
   Operator:
   Roby M. Buchanan and Joe Snyder
   Route #1
   Bakersville, North Carolina
   Operator's property rights:
   Mining lease for 10 years on the R. L. Riddle property covering 25 acres, dated May 3, 1955.
   Consent to Lien of the Owner dated May 16, 1955.

2. Contract: Form MF-200A(June1954) dated July 21, 1955.
   Work authorized:

Constructing toolhouse, powder and explosive magazines	$114.00
Driving 150 feet of crosscuts and drifts @ $31.00/ft.	4650.00
Estimated total cost of project	$4764.00
Government participation @ 75%	$3573.00

   Amendments: none
   Work completed:
   same as authorized

The project started on August 1, 1955 and all of the work under the contract was completed November 28, 1955.
Final Field Team Report received January 9, 1956
Final Operator's Report dated December 1, 1955 received December 16, 1955.
No equipment purchased under the contract.

3. Audit: Report of Review issued December 20, 1955

Accepted cost	$4,764.00
Government participation	$3,573.00

4. Certification of Discovery or Development -

The following calculations indicate there is no justification for certification:

a) Nonmetallic Minerals Division Estimate -

Assuming pegmatite extends to the surface and allowing 25 feet extension below and beyond the adit, we have a pegmatite block 150 feet long by an average of 50 feet high and 3.6 feet wide, or 2160 tons of pegmatite rock(at 12.5 cu. ft./ton). During the project, over a length of 125 feet of drifting, 270 tons of pegmatite rock was removed which yielded 2,500 pounds of "mine-run" block mica. On the basis of $600.00 a ton, the value of the pegmatite rock is $2.80 a ton, or approximately $6,000.00 as the value of the reserves. Royalty - $300.00.

b) Field Team Estimate -

On the basis, as used in their memorandum of April 9, 1956, of 3% recovery of sheet mica at $9.25 per pound, the value of the pegmatite rock is $2.70 per ton as against our $2.80. In the Field Team estimate the size of the pegmatite block was not given, however, they estimate a reserve of 7000 pounds of block mica having a value of $2000.00. Royalty - $100.00.

c) Our estimate of reserves is considerably higher than that of the Field Team, but even using our estimate as a basis, the royalty returns will not be sufficient to justify certification. The cost of DMEA inspection over a period of ten years would be greater than royalty returns to the Government.

d) It is doubtful that the Operator will mine out these reserves, as it is evident from the foregoing data that the yield of salable mica per ton of rock mined would be too low for an economic operation.

5. Comments:

How conducted:

All of the work in which the Government participated was acceptable.

Operation: good

Engineering: Reporting by the operator was above average

Geological Premise:

Although the pegmatite was intersected and followed by the adit as premised, the yield of mica was too low to justify certification.

5. Comments(continued)

Geological Criteria upon which work was based:

1. Pegmatite - poorly zoned, disconformable to wall rock, 6 feet thick by 150 feet long and rich in mica.
2. Mica - both ruby and non-ruby. Some contains "A" structure and biotite inclusions, most is relatively flat, clear, hard and free-splitting.
3. Past Production

Criteria developed during project:

1. Pegmatite - poorly zoned, 3.3 to 4 feet thick by 152 feet long. Probably a vertical extension of body exposed at surface. Composed of sodic-feldspar, quartz, muscovite, sericite and garnet
2. Country rock - garnetiferous - biotite gneiss
3. Mica - 3 to 4 inch blocks, flat "A" and clear. Some is flat and slightly stained.
4. Production, as given in paragraph 4.

Future possibilities:

It appears that the mining of this ore-body would be an uneconomic operation.

Recommendations:

Based on the small mica reserve and possible uneconomic operation in mining this pegmatite, the Nonmetallic Minerals Division recommends that this project <u>not</u> be certified.

Certification is recommended by the Field Team and the Commodity Members of the Geological Survey and Bureau of Mines.

Walter C. Anderson
Nonmetallic Minerals Division

WCAnderson:ms 5/1/56
Copy to: Mr. Houk
Mr. Anderson
Admr. R. File

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

RECEIVED
OCT 22 1956

October 19, 1956

A

Memorandum

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

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

Subject: Docket No. DMEA-3821, Contract Idm-5845 (Mica)
Buchanan and Snyder
Jim Riddle Mine, Yancey County, North Carolina

Reference is made to your letter of October 15.

Following is the total production from the Jim Riddle mine to June 16, 1956:

10/18/55	To GSA	9.57 lbs.	$71.33
12/30/55	To GSA	26.56 lbs.	160.52
12/30/55	To GSA	15.31 lbs.	64.03
12/ 6/55	Scrap, 1 ton		36.00
		Total	$331.88

So far as we can ascertain, there are no unpaid royalties. The mine is not being worked now.

Robert A. Laurence
Executive Officer

V. J. Lynch
Member, Bureau of Mines

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

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

RECEIVED
OCT 22 1956

October 19, 1956

Memorandum

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

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

Subject: Docket No. DMEA-3821, Contract Idm-E845 (Mica)
Buchanan and Snyder
Jim Riddle Mine, Yancey County, North Carolina

Reference is made to your letter of October 15.

Following is the total production from the Jim Riddle mine to June 16, 1956:

10/18/55	To GSA	9.57 lbs.	$71.33
12/30/55	To GSA	26.56 lbs.	160.52
12/30/55	To GSA	15.31 lbs.	64.03
12/ 6/55	Scrap, 1 ton		36.00
		Total	$331.88

So far as we can ascertain, there are no unpaid royalties. The mine is not being worked now.

Robert A. Laurence
Executive Officer

V. J. Lynch
Member, Bureau of Mines

331.88

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

OCT 15 1956

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V
Room 17, Post Office Building
Knoxville, 2, Tennessee

Re: Docket No. DMEA-3821-mica
Buchanan and Synder
Jim Riddle Mine
Yancey County, North Carolina
Contract No. Idm-2845

Dear Mr. Laurence:

Reference is made to your memorandum of June 13, 1956, advising that data on sales of mica to the Spruce Pine Depot from the subject mine would be forwarded as soon as obtained.

We would appreciate having a report on the status of this project including value of production and sales of mica up to June 16, 1956, the final date for certification.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WCAnderson:ms 10/10/56

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

150 ft. drift

Mica - 3821 - Adm - E 845

Mica production

By Field Team I.R.		By Operator Eng. O
Aug. 22, 55	700# Mine run - 15' drift	Aug. 31 - 910# minimum -
9-8-55 -	0 - 15'	Sept 30 - 1000 - 3
9-21-55	0 (68) - 19'	Oct 31 - 460 - 4
10-5-55	0 (87) - 15'	3
10-19-55	400 (97) - 14'	1370
10-31-55	0	
11-14-55	250	
11-28-55		11# processed sold - 71.33 - 3.56
		35# on hand 260.55 13.02
		331.88 - 16.59

1350

Fin. Report 2500

@ $600 per ton

$750

Final report 2500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 10 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
JUN 15 1956

June 13, 1956

Memorandum

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

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

Subject: DMEA-3821, Idm-2845 (Mica)
Buchanan & Snyder, Bakersville, N. C.
Jim Riddle Mine, Yancey County, North Carolina

Reference is made to your letter of May 24:

We have not been able to get complete data on production from the Jim Riddle mine. A check will be made next week of sales to the Spruce Pine depot, and a letter is being written to the Operator. We will advise you as soon as additional data are received.

Robert A. Laurence
Executive Officer

V. J. Lynch
Member, Burusa of Mines

RAL/mg
cc
Operating Committee (2)
Lynch
Shirley
files

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

RECEIVED
JUN 15 1956

June 13, 1956

Memorandum

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

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

Subject: DMEA-3821, Idm-E845 (Mica)
Buchanan & Snyder, Bakersville, N. C.
Jim Riddle Mine, Yancey County, North Carolina

Reference is made to your letter of May 24:

We have not been able to get complete data on production from the Jim Riddle mine. A check will be made next week of sales to the Spruce Pine depot, and a letter is being written to the Operator. We will advise you as soon as additional data are received.

Robert A. Laurence
Executive Officer

V. J. Lynch
Member, Bureau of Mines

RAL/mg
cc
Operating Committee (2)
Lynch
Shirley
files

MAY 24 1956

Mr. Robert A. Lawrence
Executive Officer, DMEA
Field Team, Region V
Room 19, Post Office Building
Knoxville, 2, Tennessee

Re: Docket No. DMEA-9821-mica
Buchanan and Synder
Jim Riddle Mine
Yancey County, North Carolina
Contract No. IBM-8345

Dear Mr. Lawrence:

This is with reference to the subject project on the question of certification.

After careful review of the docket, we do not believe certification is justified. During your discussion with the members of the Nonmetallic Minerals Division in this office, you indicated that certification possibly would not be justified in this case.

It will be appreciated if you will give us a report on the total production and sales of mica made during the project and up to the present time.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

WCAmbersonmma 5/21/56

Copy to: Docket
Operating Committee
Mr. Chambers
Mr. Kiilsgaard, 5222
Mr. Diehrich, 9061
Mr. Houk
Mr. Anderson
Admr. R. File

Approved:

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

Thor H. Kiilsgaard
Member, Geological Survey

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

RECEIVED
APR 1 1 1956

April 9, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Contract Idm-E8h5, DMEA-3821 (mica) Jim Riddle Mine, Yancey County, North Carolina

With reference to your letter of February 13 concerning the Final Field Team Report of the subject contract, we will try to clarify certain portions of the report:

1. This sentence is simply the summary or abstract of the entire report.

About 2500 pounds of mine-run block mica were recovered from the exploration work. The magnitude of the reserves is estimated at 7000 lbs. of block mica having a value of about $2000 after sheeting. This is based on assumed 3% recovery and an average of $9.25 per pound.

2. Neither a sketch of the mica occurrences nor a crystal count were made while the project was in operation. It is not possible to do it now. It was not practical to make them at the time of the last inspection.

3. Strategic grade mica as used in this report means mica that will be purchased by the Government Purchasing Depot in Spruce Pine, N. C.

"Fairly abundant" was meant to convey the idea that the deposit was not especially rich but contained enough mica to make it a probable profitable mining operation.

4. Both the Operator and the Examiners were of the opinion that an economic operation was indicated.

5. The figures quoted under item 5 of your letter are approximately correct and the value per pound is somewhat lower than the average. However, most of the mica as well as the best mica recovered came from the last 50 feet of the drift, so that the recovery and values would be somewhat higher than your figures. We believe the pegmatite exposed by the contract work is sufficient to justify certification, though it is difficult to express it in specific quantitative terms.

Expenditures were as follows:

Total approved	$4,764.00
Cost of project	4,764.00
Government's share of cost	3,573.00
Government's share unexpended	0.00
Royalty received to date	16.59 (4-6-56)

We consider the deposit adequately explored and do not recommend further exploration.

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

V. J. Lynch, Member
Bureau of Mines.

VJL/zm
cc:
Lynch
Shirley
Files

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

RECEIVED
APR 11 1956

April 9, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Contract Idm-8845, DMEA-3821 (mica) Jim Riddle Mine, Yancey County, North Carolina

With reference to your letter of February 13 concerning the Final Field Team Report of the subject contract, we will try to clarify certain portions of the report:

1. This sentence is simply the summary or abstract of the entire report.

About 2500 pounds of mine-run block mica were recovered from the exploration work. The magnitude of the reserves is estimated at 7000 lbs. of block mica having a value of about $2000 after sheeting. This is based on assumed 3% recovery and an average of $9.25 per pound.

2. Neither a sketch of the mica occurrences nor a crystal count were made while the project was in operation. It is not possible to do it now. It was not practical to make them at the time of the last inspection.

3. Strategic grade mica as used in this report means mica that will be purchased by the Government Purchasing Depot in Spruce Pine, N. C.

"Fairly abundant" was meant to convey the idea that the deposit was not especially rich but contained enough mica to make it a probable profitable mining operation.

4. Both the Operator and the Examiners were of the opinion that an economic operation was indicated.

5. The figures quoted under item 5 of your letter are approximately correct and the value per pound is somewhat lower than the average. However, most of the mica as well as the best mica recovered came from the last 50 feet of the drift, so that the recovery and values would be somewhat higher than your figures. We believe the pegmatite exposed by the contract work is sufficient to justify certification, though it is difficult to express it in specific quantitative terms.

Expenditures were as follows:

Total approved	$4,764.00
Cost of project	4,764.00
Government's share of cost	3,573.00
Government's share unexpended	0.00
Royalty received to date	16.59 (4-6-56)

We consider the deposit adequately explored and do not recommend further exploration.

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

V. J. Lynch, Member
Bureau of Mines.

VJL/zm
cc:
Lynch
Shirley
Files

IN REPLY REFER TO:

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

RECEIVED
MAR 12 1956

March 9, 1956

Re: DMEA 3801, Idm-2845
Buchanan and Snyder
Jim Riddle Mine
Yancey Co., N. C.
$4,764.00 - Mica

Memorandum

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

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

Subject: Review of Final Field Team Report

The contract authorized the spending of $4,764.00, and the sum of $3,679.00 was expended on a drift 152 feet long driven on a 3.3- to 6.5-foot crosscutting pegmatite.

The pegmatite in the drift is poorly zoned for the most part, but at 97 feet in, material comparable to that found in the open cut was met, and 400 pounds of mine-run block was recovered. The width of the pegmatite in the drift is less than that of the pegmatite mapped in the open cut, but the positions and attitudes correlate reasonably well.

At any rate some mica was produced and the adit has made available more. The examiners and the Field Team recommend that certification of the property be made. I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-3/9/56

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

FEB 13 1956 600

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

Subject: Docket No. DMEA-3821 - Mica
Buchanan and Snyder
Jim Riddle Mine
Yancey County, North Carolina
Contract No. Idm-2845

Dear Mr. Laurence:

Reference is made to the Final Field Team Report and the recommendation for a certification of discovery on the subject contract.

We are unable to concur with the Field Team's recommendation for certification with the facts provided by the Interim Report and the Final Field Team Report. An elaboration on the following quoted portions of the Final Field Team Report would help us with our decision.

1. First page, first paragraph, first sentence.

"Exploration of this mine by means of an adit has produced muscovite mica of strategic grade and indicates possible reserves."

What is the magnitude and value of the possible reserves? A vertical section through the adit showing the possible reserves would be appreciated.

2. First page, second paragraph, third sentence.

"The Operator plans to continue work at his own expense by stoping the richer mica occurrences in the drift and possibly extend the drift from the present face."

A sketch of the richer mica occurrences with a crystal count or an estimated percentage of mica would be helpful.

3. Second page, fourth paragraph.

"Strategic grade mica is fairly abundant, hard, free from inclusions and free splitting."

Define strategic grade as used here. Does strategic grade mean that mica that is being purchased under the Domestic Mica Program or does it mean good stained or better quality. Define fairly abundant.

Use either the crystal count method or an estimate of the percentage of mica.

4. Second page, fifth paragraph, first sentence.

"The Operators are continuing mining since indications of reserves are favorable."

Does this sentence mean that an economic operation is indicated?

5. Page two, paragraph 5, second sentence.

"More level work along strike and stoping will probably produce a minimum of 7,000 lbs. of strategic grade book mica."

Is strategic grade book mica, run of mine, block, or sheet mica? Should we use $600.00 a ton in figuring its value or the average price paid by the Depot for sheet mica? It would appear that the 7,000 pounds of strategic grade book mica would depend upon future work to be done by the Operators. Our certifications are based upon the work completed under the contract. A recovery calculation of the mica produced from approximately 100 feet of drifting in the pegmatite shows a return of approximately $1.11 per ton of rock moved. Taking the Operators' figures of 2,500 pounds of mica produced from the adit and relating it to the sales of 51.44 pounds, the recovery factor is 2.06% and the value per pound $5.75; quite a bit lower than the District average. The expenditures listed in the Final Field Team Report do not agree with our figures:

		Field Team	Washington Office
(a)	Total approved	$4,764.00	$4,764.00
(b)	Total cost of project	3,679.00	4,764.00
(c)	Government's share of cost	2,759.25	3,573.00
(d)	Government's share unexpended	1,085.00	-0-
(e)	Value of production during epr.	Unknown	---
(f)	Royalty received to date	3.56	---

There is no comment in the Field Team's Final Report on the Operators' request for additional funds. Is the area adequately explored? A study of the sales made to the General Services Administration to date shows that the good stained and better portion of the mica sold is only 16.2%.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

LGHouk:gad 2/10/56

Approved:

P. F. Yopes

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

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

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

RECEIVED
JAN 26 1956

January 26, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 3021 (mica)

Applicant: Buchanan and Snyder

Name and Location of Property: Jim Riddle Mine, Yancey Co. N. C.

Contract Number: Idm-E 845

Date of Field Team Report: 12/10/55

Date Rec'd. by Br. of Ceramic and Fertilizer Materials: 1/23/56

Field Team Recommendation: Recommend certification of discovery.

Comments:

1. Mica of strategic grade was encountered in exploration, and possible reserves were indicated.

2. Operator plans to mine mica disclosed during exploration.

3. Expenditures -

Total approved	$4,764.00
Total cost	3,679.00
Gov't. share of the cost	2,759.25
Value of production during operation	Unknown

Recommendation:

I concur with the field team's recommendation for certification of discovery.

SIGNED

W. F. Dietrich

January 5, 1956

Memorandum

To: Operating Committee, DMEA J. Washington
Bureau of Mines

From: DMEA Field Team, Region V - Knoxville
RAL/sm

Subject: Final Report - DMEA-3821, Idm-8845 (mica) Buchanan & Snyder
Jim Riddle Mine, Yancey County, N. C.

Lynch
Shirley
Files

Enclosed are four copies of the Field Team final report on the subject contract. The Operator's final report was combined with his narrative report for the November voucher, and was forwarded with the voucher December 13, 1955, when it was approved for payment.

We recommend certification of discovery.

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

V. J. Lynch, Member
Bureau of Mines

RAL/sm
cc:
Lynch
Shirley
Files

RECEIVED
JAN 9 1956

Reviewed by
DMEA OPERATING COMMITTEE
1-13-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT

FIELD TEAM, REGION V

On

DMEA-3821, JIM RIDDLE MINE (Mica)
Yancey County, N. C.

By

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

and

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

Reviewed by
DMEA OPERATING COMMITTEE
1-16-56
(date)

RECEIVED
JAN 9 1956

December 10, 1955

EXPLORATION PROJECT CONTRACT

FINAL REPORT

On

DMEA-3821, Idm-E845, JIM RIDDLE MINE (mica)

Operator: Buchanan and Snyder, c/o R. M. Buchanan, Route 1, Bakersville, North Carolina

Location: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

Exploration of this mine by means of an adit has produced muscovite mica of strategic grade and indicates possible reserves. The field examiners recommend certification of the contract.

Since starting on August 1, 1955, work has progressed very well. All work under contract was completed November 28, 1955. The Operator plans to continue work at his own expense by stoping the richer mica occurrences in the drift and possibly extend the drift from the present face.

An access road was built at the Operators' expense. Buildings and equipment on the property consists of: a tool house, powder magazine, exploder magazine, a 105 c.f.m. air compressor with accessory drilling equipment. The adit was timbered at the portal and stulls and top lagging were set in the drift where needed.

The total distance of the adit is 152 feet. Drift directions from the portal are: 31 feet N. 70° W.; 69 feet N. 40° W.; 36 feet N. 50° W., and 16 feet N. 40° W. (See map). The adit is 5 feet wide and 7 feet high.

A poorly-zoned, mica-bearing pegmatite was encountered 19 feet from the adit portal and was followed throughout the total distance of 152 feet. This pegmatite is probably a vertical extension of the body exposed in the surface cut and described in the examination report. At 49 feet from the portal the generally 3.3 - 4.0 ft wide pegmatite became pegmatitic and granitic stringers barren of mica. Good grade mica occurs in the adit at about 97 feet and about 400 pounds of "mine-run block" was produced from 12 feet of drift near the 97 ft station. About 250 pounds of "mine-run block" was produced in the two weeks of operations.

Contacts are irregular but generally range from N. 40° W., 55° NE to N. 55° W., 58-60° NE.

Mineralogy of the pegmatite consists primarily of sodic-feldspar (albite-oligoclase), quartz, muscovite, sericite and garnet.

The country rock is primarily a garnetiferous-biotite gneiss with a general foliation trend of N. 40° W. - N. 60° W., and dips 60° NE. in the explored adit.

Muscovite of strategic grade occurs as 3 to 4 inch blocks, and is flat "A", clear ruby mica. Some of this mica is flat and slightly stained. Green mica has also been produced during exploration. It is reported that about 70% of past production was green or non-ruby.

Strategic grade mica is fairly abundant, hard, free from inclusions and free splitting.

The Operators are continuing mining since indications of reserves are favorable. More level work along strike and stoping will probably produce a minimum of 7,000 lbs. of strategic grade book mica. At present, overhead stoping and side slabbing of the adit are planned by the Operators as a quick, efficient means of recovering more strategic mica.

Expenditures:

(a)	Total approved	$4,764.00	
(b)	Total cost of project	~~3,679.00~~	- $4,764.00
(c)	Government's share of cost	~~2,759.25~~	3,573.00
(d)	Government's share unexpended	~~1,085.00~~	
(e)	Value of production during opr.	Unknown	
(f)	Royalty received to date	3.56	

The work was conducted in an efficient and satisfactory manner.

Since reserves are indicated and the cost of mining will be less in stoping, etc., than in driving a heading, the field examiners recommend certification as a discovery.

December 10, 1955

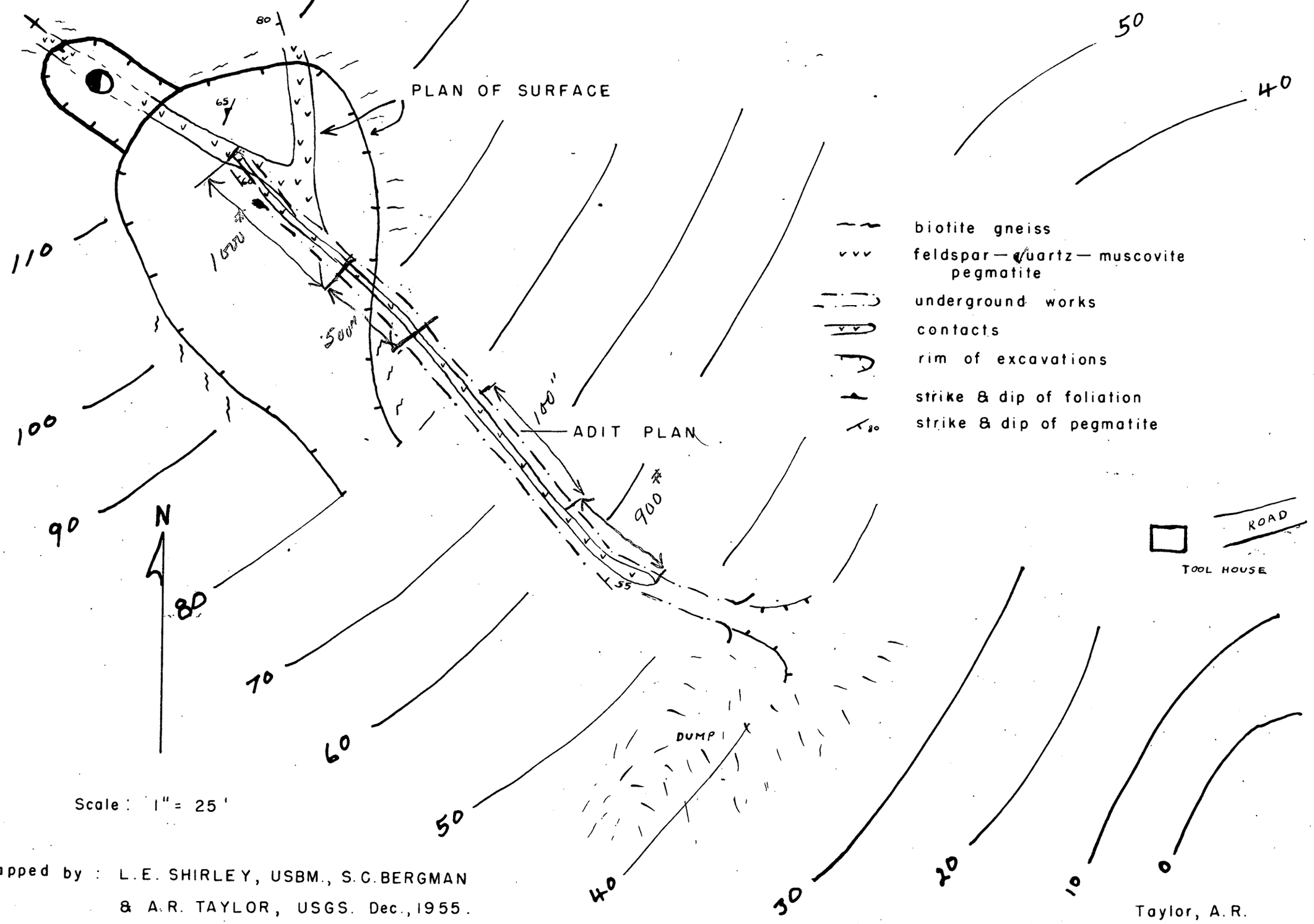
S. C. Bergman and A. R. Taylor, Geologists
U. S. Geological Survey

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

SKETCH OF THE
JIM RIDDLE MINE (mica)

DMEA-3821

YANCEY CO., N.C.



Adit mapped by: L.E. SHIRLEY, USBM., S.C. BERGMAN & A.R. TAYLOR, USGS. Dec., 1955.

Taylor, A.R.
Dec., 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 425 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
JAN 11 1956

January 9, 1956

Memorandum

To: Helen Miller, Ass't Administrative Officer - Region V

From: Acting Executive Officer, DMEA - Region V

Subject: Royalty payment on - Idm-E845, DMEA-3821 (mica)
Buchanan and Snyder, Jim Riddle Mine - North Carolina

Transmitted are bills-of-sale in the amount of $260.55, for mica sold from the subject contract, and a check for $13.03 for 5% royalty on the sale.

V. J. Lynch

ZM.
cc:
Mittenderf
Lynch
Shirley
Files

copy

GENERAL SERVICES ADMINISTRATION, REGION IV
MICA PURCHASE DEPOT, Spruce Pine, N. C.

Authorization No. _____ Acceptance No. 571 Date: 12-30-55

Seller: Buchanan & Snyder (Joe Snyder

Mine: Jim Riddle
Yancey County

DMEA No. 3821, ~~Dmo E845~~

Quality of Mica	HALF TRIM			FULL TRIM		
	Pounds	Price/Lb.	Amount	Pounds	Price/Lb.	Amount
Good Stained & Better Grades No. 3 & larger					$70.00	
No. 4 and 5					$40.00	
No. 5½ and 6				.61	$15.00	9.15
Stained No.3 and larger		$12.00			$18.00	
No. 4 and 5		$ 5.00			$ 8.00	
No. 5½ and 6		$ 3.00		12.25	$ ~~4~~.00	49.00
Heavy Stained No. 3 & larger		$ 8.00			$13.00	
No. 4 and 5		$ 4.00			$ 6.00	
No. 5½ and 6		$ 2.00		2.45	$ ~~3.00~~ 2.40	5.88
LOT TOTALS		//////			//////	
TOTAL		/////		15.31	/////	64.03

Sold To:
12-6-55-Diamond Mica Co.
Spruce Pine, N.C. --- Scrap. ----

36.00
100.03
160.52
260.55
71.33
331.88

Check # 1659

copy

GENERAL SERVICES ADMINISTRATION, REGION IV
MICA PURCHASE DEPOT, Spruce Pine, N. C.

Authorization No. 1688A Acceptance No. 572 Date: 12-30-55

Seller: Snyder & Buchanan c/o Joe Snyder, Hawk, N.C.

Mine: Jim Riddle
Yancey County

DMEA No. 3821, Idaho 845

Quality of Mica	HALF TRIM			FULL TRIM		
	Pounds	Price/Lb.	Amount	Pounds	Price/Lb.	Amount
Good Stained & Better Grades No. 3 & larger					$70.00	
No. 4 and 5				.49	$40.00	19.60
No. 5½ and 6				4.16	$15.00	62.40
Stained No.3 and larger		$12.00			$18.00	
No. 4 and 5		$ 5.00		2.20	$ ~~8.00~~ 6.40	14.08
No. 5½ and 6		$ 3.00		12.96	$ ~~5.00~~ 4.00	51.84
Heavy Stained No. 3 & larger		$ 8.00			$13.00	
No. 4 and 5		$ 4.00		.37	$ ~~6.00~~ 4.80	1.78
No. 5½ and 6		$ 2.00		6.38	$ ~~3.00~~ 2.40	15.31
LOT TOTALS		//////	17.51 / ~~18.00~~	X 165.01	= //////	165.01
TOTAL		/////			/////	160.52

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE
41

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED
DEC 1 1955

Month of November, 1955 Docket No. DMEA 3021 Contract No. IDME 845
Operator's Name Buchanan & Snyder Minerals Mica
Address Marysville, N.C.
Contract Amount, $ 4704.00 Government Participation: 75 % Amount, $ 3573.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting 35 ft.	1085.00	3679.00	4704.00			
(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	1085.00	3679.00	4704.00			

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

Date 12-1-55 *Payee Buchanan & Snyder

Per Jal Snyder Title Supervisor

*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:

$ 813.75

Signature Helen R. Mullen
(Authorized Certifying Officer)

Date DEC 14 1955 Vou. No. 34
(See other side)

217.25

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. DMEE 845 in accordance with the terms of the contract.

Signature W. A. Beck Title Mining Engr. U.S.B.M. Date DEC 12 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date DEC 12 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
DEC 16 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Nov. 195 5 Docket No. DMEA 3821 Contract No. IDME-845
Operator's Name Buchanan & Snyder Minerals
Address Salmerville, N.C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	ft.	1085.00	35	4764.00	150	31.0	150	31.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1085.00		4764.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1085.00		4764.00				

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 12-1-55 Operator Buchanan & Snyder

Per Joe Snyder Title Supervisor

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)

W. T. Beck, Mining Engr.
USBM

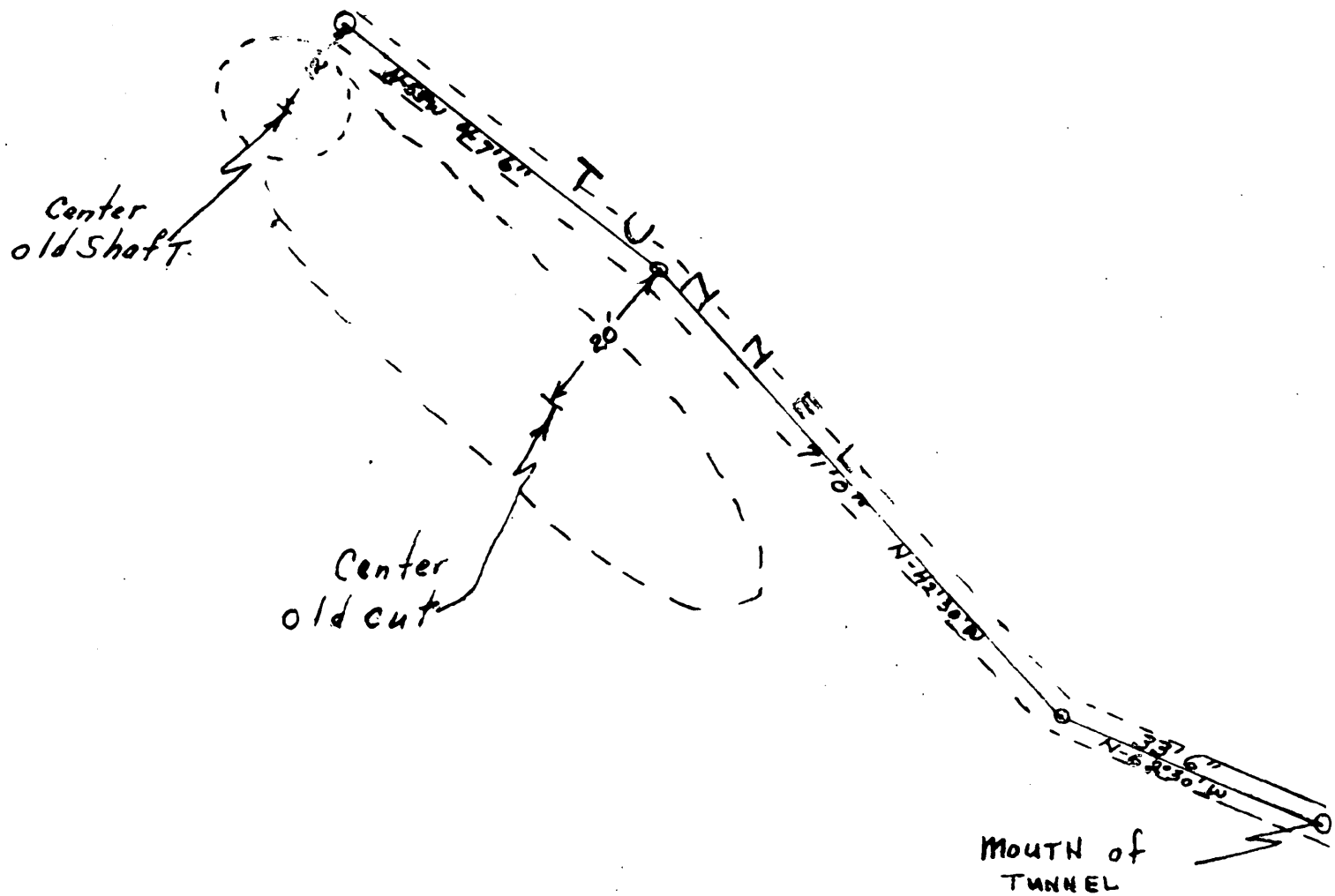
INSTRUCTIONS

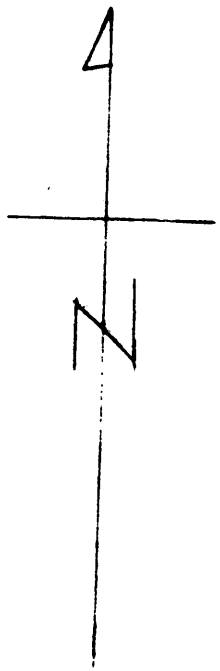
Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better 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 87289





SURVEY
OF
JIM RIDDLE
MICA MINE

SCALE: 1 IN. = 20 FT

RECEIVED
DEC 16 '5

C
O
P
Y

RECEIVED
DEC 1 6 1955

Started work at Jim Riddle Mine on August 1st, 1955 employed Bulldozer for approximately 5 hrs. to build road into mine, then work was started immediately on tool house and powder magazines, also on cut at place designated by Field Representatives this work was being done by two men employed while machinery was being set up. and water piped. Cut was run approximately 30 feet then quite a bit of timber was encountered to hold surplus earth durning this process of operation some vein was encountered which was very poor. Shortly after drift was started some mica was found but the quality was very poor & the amount was very small. Shortly after drift was started the type of rock was very hard to drive & also pull for about three weeks progress, was very slow, then after a change of employees and also a different type of pigemite was encountered & this along with the change of employees started the work along a more progressive line but so far as the mica vein is concerned it didn't seem to get any better or any worse. On some days as much as 50 to 60 lbs. of a low grade was mined. This drift was run by Supervision of Field Representative. The designated foot & completely in accorance with their Supervision on completion of the footage approved the amount of Mica was taken from the complete operation was approximately 2500 lb. of low grade Mica to date one sale has been made & there will be approximately 30 lbs. more to be sold and a balance will be sold as scrap.

Enclosed is a survey of said mine showing that old cut & old shaft was missed by 20 and 12 ft respectively. The field Representative was asked for additional Funds to run drift to either of each cut or shaft. This I would be glad to do & think that there would be a possibility of a vein of Mica, but I am not financially able to do this operation alone. I sincerely hope that the record summitted and the operation of the mine has been satisfactory We have definetly tried to comply with your rules and regulations.

Sincerely,

/s/ Joe Snyder

S.& B. Mining Company

(mg)

Anderson

INTERIM REPORT

RECEIVED DEC 15 1953

IMEA-3821, Idm-E845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

This contract has been completed and all costs as outined in Exhibit "A" have been expended. No large amounts of mica were produced under the contract, but the Field Examiners are of the opinion that this mine can be recommended for certification. The Operator plans to continue work in the present head and will stope those areas from the adit where the best mica was recovered during work under contract.

One hundred and fifty-two feet of drift had been completed along the strike of the pegmatite as of the date of this visit. Thirty-one feet were driven N70°W, 69 feet were driven N40°W, 36 feet were driven N50°W, and the remaining 16 feet were driven N40°W. Pegmatite was first encountered at 19 feet from the starting point and was followed from that point to the present head. The body strikes N40°W, and the dip has varied from steeply SW to 60°NE. It is disconformable with the country rock, a mica gneiss, has an average thickness of 3.5 feet and is composed of quartz, feldspar, garnet, and scattered muscovite mica. The mica contains some biotite stain, hair cracks, and is partially bent or "wavy". The Operator stated that 11 pounds of processed mica had been sold to the GSA Depot, 35 pounds of processed mica is now on hand ready for sale, and that scrap and punch mica would be sold at a later date.

This contract was completed satisfactorily and was timbered where necessary. No additional exploration under government contract appears warranted.

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

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

November 28, 1955

Gadsden

INTERIM REPORT

DMEA-3821, Idm E-845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

Drifting continues on this contract and now totals 129 feet. The adit is being driven northwest and is following a pegmatite body 3.3 feet thick striking N40°W and dipping 60°NE. The body is composed of a medium amount of quartz, feldspar, and is rich in small mica. About 250 pounds of "mine-run" block has been recovered in the past two weeks of work. Recommendations were made to the operator for continuing the drift in the present direction. Eleven feet of drift remains to be driven under contract.

The operator was advised to scale the entire adit, and especially remove all loose rock in the roof. Progress on this contract is satisfactory.

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

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

November 14, 1955

INTERIM REPORT

DMEA-3821, Idm-E845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, North Carolina

LOCATION: 1.25 airline miles due east of Penasacola, Yancey County, North Carolina

Drifting continues on this contract, and now totals 115 feet. The adit continues to be driven to the northeast and is following the trend of the pegmatite. The body as exhibited in the present face is 3.5 to 4 feet thick, and has thinned slightly in the past 18 feet of work. The body is composed of quartz, feldspar, and scattered medium-sized blocks of muscovite mica. The mica appears to be of good quality, and the size of the crystals as shown in the face has increased. The operator was advised to continue driving the drift in the same general direction in pegmatite until another visit can be made.

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

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

October 31, 1955

RECEIVED
NOV 14 1955

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

RECEIVED
NOV - 4 1955

November 3, 1955

Memorandum

To: Helen Miller, Ass't Administrative Officer - Region V

From: Executive Officer, DMEA - Region V - Knoxville

Subject: Royalty payment - Idm-E845, DMEA-3821 (mica)
Buchanan and Snyder - Jim Riddle Mine, North Carolina

Transmitted is a bill-of-sale in the amount of $71.33, and a check for $3.56 representing 5% royalty due the Government for the sale of mica from the subject contract.

Robert A. Laurence

RAL/zm
cc:
Lynch
Mittendorf
Shirley
Files

COPY

GENERAL SERVICES ADMINISTRATION
Mica Purchase Depot - Spruce Pine, N. C.

WARRANTY, ACCEPTANCE AND INVOICE - NONRUBY

DATE: 10-18-55

ACCEPTANCE NUMBER: A04-335

ISSUED UNDER CERTIFICATE OF AUTHORIZATION NUMBER: 1688A

LOT NUMBER: SPA0-335

RECEIPT AND WEIGHT TICKET NUMBER:

WARRANTY

The undersigned, a participant in the Mica Program, warrants that the mica included in this lot of mica is of domestic origin, is not material owned previously by the Government, was not purchased from others prior to December 14, 1951, and is owned by the person or firm whose name appears below (herein referred to as "Seller").

NAME AND ADDRESS OF SELLER *(Type or print)*	SELLER OR PERSON AUTHORIZED TO SIGN THIS WARRANTY FOR SELLER
NAME: Snyder and Buchanan	SIGNATURE:
STREET ADDRESS: c/o Joe Snyder - R#1	NAME *(Type or print)*: Joe Snyder
CITY, ZONE AND STATE: Bakersville, N. C.	TITLE *(Type or print)*: Partner

EVALUATION AND SETTLEMENT DATA

PROGRAM A - BLOCK OR FILM MICA - NONRUBY

QUALITY	HALF TRIM			FULL TRIM		
	POUNDS	PRICE PER LB.	AMOUNT	POUNDS	PRICE PER LB.	AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER					$56.00	
GRADES NO. 4 AND 5					$32.00	
GRADES NO. 5½ AND 6				3.06	$12.00	49.90
STAINED						
GRADES NO. 3 AND LARGER		$ 9.60			$14.40	
GRADES NO. 4 AND 5		$ 4.00			$ 6.40	
GRADES NO. 5½ AND 6		$ 2.40		6.13	$ 4.00	24.52
HEAVY STAINED						
GRADES NO. 3 AND LARGER		$ 6.40			$10.40	
GRADES NO. 4 AND 5		$ 3.20			$ 4.80	
GRADES NO. 5½ AND 6		$ 1.60		.38	$ 2.40	.91
TOTALS						
LOT TOTALS				9.57		71.33

PROGRAM B - HAND-COBBED MICA - NONRUBY

TOTALS					$ 0.24	

ACCEPTANCE

Subject to the terms and conditions of the Mica Regulation (Revision 2), dated July 22, 1953 (18 F.R. 4377), establishing the Government's Purchase Programs for Domestic Mica, the Government accepts the number of pounds of mica (as hereinabove identified), delivered by the Seller to the Government for which payment in the total amount set forth hereinabove will be made by the Government.

GENERAL SERVICES ADMINISTRATION

BY *(Type name)*	SIGNATURE	TITLE
Wayne Buchanan		Buyer

INVOICE

TO: General Services Administration, Region V

FOR: Mica delivered as indicated above — $ 71.33

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

SELLER *(Type name)*	DATE
Snyder & Buchanan, DMEA-3821, Idm-E845(Jim Riddle Mine)	10-18-55
BY *(Signature)*	NAME AND TITLE *(Type)*: Joe Snyder, Partner

GSA-WASH DC 54-2285

GSA FORM 1136
September 1953

F-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
NOV - 9 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1955 Docket No. DMEA 3021 Contract No. DMEA-6
Operator's Name Buchanan & Snyder Minerals Asb
Address Forsyth, Mo.
Contract Amount, $ 4761.00 Government Participation: 75% Amount, $ 3573.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting Lft.	1240.00	2439.00	3679.00			
Drifting						
			3565.00			
(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.			114.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1240.00	2439.00	3679.00	1240.00	2439.00	3679.00

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

Date 10-31-55 *Payee Buchanan & Snyder

Per Joe Snyder Title Supervisor

*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:

$ 930.00

Signature Helen A. Mullin
(Authorized Certifying Officer)

Date Vou. No. 89
(See other side)

210.00

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

Signature V. J. Lynch Title Mining Eng. Date 11/3/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lauman Title EXECUTIVE OFFICER DMEA REGION V Date NOV 7 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
NOV - 9 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1955 Docket No. DMEA 3821 Contract No. DMI-8545
Operator's Name Buchanan & Snyder Minerals Mica
Address

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.	1240.00	40	3679.00	115	31.00	150	31.00
Crosscutting								
Raising				1765.00				
Shafts								
Winzes				3565				
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		1240.00		3679.00 3565.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				114.00				
Total Costs		1240.00		3679.00				

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 10-31-55 Operator Buchanan & Snyder
Per Gal Snyder Title Supervisor

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

Remarks:

(Instructions on reverse)

(For Government use only)

V. J. Lynch
Mining Eng.
Bureau of Mines

INSTRUCTIONS

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

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

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

GPO 872894

DMEA-3821, Idm-E845, Buchanan & Snyder. October 1955

Oct. 3. Drilled 2 - 5 ft. holes
3 - 4 ft. holes shot
5 - 6 ft. holes -- ~~xxxx~~ and mucked out.

Oct. 4. Drilled 15- 6 ft. holes
4 - 5 ft. holes - shot and mucked out.

Oct. 5. Drilled - 16- 6 ft. holes, shot and mucked out.

Oct. 6 Drilled 12 - 4 ft. holes. " " " "

Oct. 7 Drilled 3- 2 ft. holes
6 - 4 ft. holes
12 - 6 ft. holes, shot and mucked out.

Oct. 10. Drilled 12 - 6 ft. holes, shot and mucked out.

Oct. 11 Drilled 5 - 2 ft holes, 6-4ft. holes, 4 - 6 ft. holes, shot and mucked out.

Oct. 12. Drilled 16, 6 ft. holes ; 1 - 4 ft. hole. Shot & mucked, get 50 lbs. mica.

Oct. 13. Drilled 13, 8 - 6 ft. holes; 7 - 4 ft. holes; 4 - 2 ft. holes, shot & mucked

Oct. 14. Break down - no work
17 " " "
18 " " "

Oct. 19. Drilled 15 - 6 ft. holes. shot & mucked. Engineers came from Knoville. Discussed mining operation.

Oct. 20. Drilled - 11, 6 ft. holes
1, 4 ft. hole - shot and mucked. 50 lbs mica.
21. Drilled, shot and mucked - 50 lbs. mica.

24 Drilled, shot and mucked 50 lbs. mica

25. " " " " " "

26. " " " 60 lbs. mica

27 " " " 50 lns. mica (approximately)

28 " " " 60 lbs. mica "

31 " " " 40 lbs. mica "

Engineers came from Knoxville and measured footage.

RECEIVED
OCT 28 1955

INTERIM REPORT

IMEA-3821, Ida-8845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

Drifting continues on this contract and now totals 97 feet. The last 12 feet of drift has yielded approximately 400 pounds of mine-run block mica of better quality than that previously obtained. The body is about 4.5 feet thick in the present face and is composed of feldspar, quartz, and clear muscovite mica. The adit is being driven N40°E, and the work is following the trend of the body. The operator was advised to continue the drift in the present direction until another visit can be made. Recent progress on this contract is satisfactory.

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

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

October 19, 1955

Kwoun Anderson

RECEIVED
OCT 17 1955

INTERIM REPORT

DMEA-3821, Idm-E845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

Drifting continues on this contract and is now at 83 feet. The present face exhibits a pegmatite about 4 feet thick trending N40°W and near vertical. The present direction of the drift is N50°W, and work has followed a body composed of feldspar, added quartz, and scattered blocks of muscovite mica. The operator was advised to continue the drift in the same general direction, following the trend of the body. Progress on this contract is satisfactory.

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

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

October 5, 1955

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS No. 26

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED OCT 10 1955

Month of Sept. 195 5 Docket No. DMEA 3821 Contract No. IDME 845
Operator's Name Buchanan and Snyder Minerals Mica
Address
Contract Amount, $ 4764.00 Government Participation: 75 % Amount, $

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting 33ft	1023.00	1416.00	2439.00			
Drifting			2325			
(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.		114.00	114.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1023.00	1416.00	2439.00	1023.00	1416.00	2439.00

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

Date 9-30-55 *Payee Buchanan and Snyder

Per [signature] Title Supervisor

*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:

$ 767.25

Signature Helen R. Miller
(Authorized Certifying Officer)

Date OCT 7 1955 Vou. No. 72
(See other side)

255.75

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E845 in accordance with the terms of the contract.

Signature [illegible] Title Mining Eng. Date 10/6/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. [illegible] Title EXECUTIVE OFFICER DMEA REGION V Date OCT 6 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
OCT 10 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 1955 Docket No. DMEA 3821 Contract No. DMI-B 845
Operator's Name Buchanan and Snyder Minerals Mica
Address Rt. Bakersville, 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.	102300	33	2439.00	75	31.00	150	31.00
Crosscutting				2325				
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		102300		2439.00				Total Costs Authorized by Contract
Operating Equipment Purchased				2325.00				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				114.00				
Total Costs		1023.00		2439.00				

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

Date 9-30-55 Operator Buchanan & Snyder

Per Joe Snyder Title Supervisor

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)

V. J. Lynch
Mining Eng.
Bureau of Mines

INSTRUCTIONS

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

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

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

GPO 872894

DMEA NO. 3821

Month of September

Date work begin. August 1, 1955

RECEIVED
OCT 10 1955

Sept. 1 Drilled 18 holes and shot

Sept. 2 Mucked out and drilled the rest of day.

Sept. 5 Labor Day (No work)

Sept. 6 Finished drilling in heading about 22 holes, & shot.

Sept. 7 Mucked out the cut and pulled about 2 ft.

Sept. 8 Drilled all day- About 18 holes & shot.

Sept. 9 Mucked out cut- Pulled approximately two ft. in vein. about 50 lb mica.

Sept. 12 Drilled all day. 22 holes shot

Sept. 13 Mucked out all day . Pu led about three ft. Got 50 lb. of Mica.

Sept. 14 Drilled part of day. Had trouble with drill and water line. Tore down drill & cleaned it. Changed the water line.

Sept. 15 Finished drilling round of holes. Shot & mucked out.

Sept. 16 Drilled 18 holes & shot.

Sept. 19 Mucked out. Holes pulled good. went about 3 ft.

Sept. 20 Drilled 18 holes & shot mucked out some-

Sept. 21 Finished mucking. Drilled rest of day. Field men called Discussed operation with them.

Sept. 22 Finished drilling heading . Shot and mucked out. Holes didn't pull to good.

Sept. 23 Drilled all day 24 holes & shot.

Sept. 26 + 27th No work

Sept. 28 Mucked out. Holes pulled good. went 4 ft.

Sept. 29 Drilled 18 holes shot & Mucked out.

Sept. 30 Drilled all day 18 holes & shot.

INTERIM REPORT

DMEA-3821, Idm-E845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

Drifting continues on this contract, and is now at 68 feet. The present direction of the adit is N30°W, and the work is following a pegmatite about 4 feet thick as exhibited in the roof and along the east wall. A narrow body, barren of mica was encountered along the west wall. Some mica has been produced from the last 20 feet of drift, but is of poor quality. The mica bearing body on the east wall is composed of feldspar and an occasional small block of mica. The operator was advised to continue the drift in the present direction with test holes at intervals. Progress on this contract is satisfactory.

Messrs. V. J. Lynch and R. A. Laurence accompanied the Field Examiners on this visit to the mine.

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

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

September 21, 1955

INTERIM REPORT

DMEA-3821, Idm-E845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, North Carolina

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, North Carolina

Drifting continues on this contract, and is now at 49 feet. The adit is being driven alongside pegmatite in a N43°W direction. The major portion of the body is on the northeast side of the adit, and thickness at this point is unknown. The mine foreman stated that the contact was being followed, and that the body would be slabbed into the drift, thereby saving most of the mica in the body. Pegmatitic and granitic stringer material shows in the present heading. Very little mica has been recovered in the past two weeks of work. Progress on this contract is satisfactory.

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

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

September 8, 1955

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID OR TRANSFERRED TO PAYEE 642

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1955 Docket No. DMEA 3621 Contract No. Idn-E 845

Operator's Name Buchanan and Snyder Minerals Mica

Address Rt. 1 Bakersville, N.C.

RECEIVED SEP 19 1955

Contract Amount, $ 4764.00 Government Participation 75 % Amount, $ 3573.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting 19ft	589.00	---	589.00			
Drifting 23ft	713.00	---	713.00			
(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.	76.00		76.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Powder and Explosive Magazines	38.00		38.00			
(8) Contingencies (specify):						
TOTALS	1416.00		1416.00	1416.00		1416.00

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

Date 8-31-55 *Payee Buchanan & Snyder

Per [signature] Title Supervisor

*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:

$ 1062.00

Signature [signature] (Authorized Certifying Officer)

Date SEP 15 1955 Vou. No. 61

(See other side)

3540 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. E845 in accordance with the terms of the contract.

Signature Kellam H. Teague Title Geologist, U.S.G.S. Date 9/14/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date SEP 14 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
SEP 19 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1955 Docket No. DMEA 3821 Contract No. Idn-E 845

Operator's Name Buchanan and Snyder Minerals Mica

Address Rt. 1 Bakersville, 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.	713.00	23	713.00	23	31.00	150	31.00
Crosscutting	Ft.	589.00	19	589.00	19	31.00	150	31.00
Raising			42					
Shafts				302				
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1302.00		1302.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		76.00		76.00				
Powder and Explosive Mag		38.00		38.00				
TOTAL COSTS		1416.00		1416.00				

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

Date 8-31-55 Operator Buchanan & Snyder

Per Joe Snyder Title Supervisor

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

REMARKS:

(Instructions on reverse)

(For Government use only) Kefton H. Teague, Geologist

INSTRUCTIONS

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

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

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

GPO 872894

Daily Report

DMEA-3821, Idm-E845

Date Work Began: August 1, 1955

August 1. Moved air compressor into mine. Worked on road - run cut 2 ft. 4 men at work.

2nd. Hawled in lumber for tool house, worked on tool house, worked on cut run 3 feet.

3 rd Finished tool house, and drove cut 2 ft. 3 men worked. 5 hours out for B. W.

4th Built powder magazines, and worked on cap box. Run cut approximately 4 ft. 3 men worked.

5th Run cut approximately 3 ft.

6th Went approximately 3 ft. with cut. Worked some on powder magazines and toolhouse.

9th Cut some timber for mine run cut approximately 3 ft. Field men came and looked over work.

10th Put in pipe line. Run 3 holes to widen cut. Got about 25 lbs. mica.

11th Put in loft mucked and went approximately 2 ft. in cut. Got about 25 lbs of mica.

12th Finished putting in loft and covered it up with muck. Shot 1 hole to even things up.

15th Put in water line drilled one round ed holes and shot - got approximately 100 lbs of mica. Drove drift/5 ft. about

16th Had a slide in of muck, took most of the day to clean up. Shot 1 round of holes got about 200 lbs. mica.

17th Pulled heading about 2 ft. got about 100 lbs of mica.

18th Towed up filling, pulled about 2 ft. fot 150 lbs of mica.

19th Set timber - put in a slate round of holes - got some mica

22nd Field Men called, drilled most all day. Did not shoot holes.

23rd Shot round of holes pulled heading approximately 2 ft. fixed timber that was blown out.

24th Fixed timber - shot several holes towing up - got about 200 lbs. mica.

25th Timbered most of day. Mucked out some. Got 60 lbs. mica.

26th Run one round of holes - got no mica. Drift about 1 ft. Bad going.

29th Run drift about 1 ft. Burnt core 5 ft. for tomorrow.

30th Drill 15 holes, holes did not pull

31st Drill in heading pulled approximately 3 ft vein - got 50 lbs mica.

Mica

INTERIM REPORT

RECEIVED
SEP - 2 1955

DMEA-3821, Idm-E845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

Drifting continues on this contract, and new work accomplished totals 34 feet. Pegmatite was encountered at 19 feet from the beginning point, and all of the adit work has been driven in a N70°W direction. The contact with the country rock strikes N40°W and is very irregular. The present face of the body is composed of feldspar, scattered quartz, and an occasional small block of muscovite mica. Approximately 700 pounds of mine-run block has been recovered during the past two weeks work, some of which contains stain.

Timbering has been necessary at the portal, and stulls and overhead lagging have been set to the present face. The operator was advised to continue timbering until fresh ground is encountered. Progress on this contract is satisfactory.

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

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

August 22, 1955

INTERIM REPORT

DMEA-3821, Idm-E 845 (mica) JIM RIDDLE MINE

OPERATOR: Buchanan and Snyder, c/o Roby M. Buchanan, Route #1, Bakersville, N. C.

LOCATION: 1.25 airline miles due east of Pensacola, Yancey County, N. C.

The starting date on this contract is August 1, 1955. Drifting is underway, and has advanced 23 feet in muck and loose weathered material. No timbering has been accomplished to date, but is expected to begin in the near future. An access road has been constructed to the mine at the operator's own expense. A tool house and powder and cap magazines have been built, and necessary drilling equipment has been moved on the job. Progress on this contract has been good.

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

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

August 8, 1955

RECEIVED
AUG 22 1955

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

RECEIVED
AUG - 8 1955

August 4, 1955

Memorandum

To: Operating Committee - DMEA - Washington

From: Executive Officer, DMEA Field Team, Region V

Subject: Signed Contract - Idm-E845, DMEA-3821, Buchanan & Snyder
Route 1, Bakersville, North Carolina

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

Robert A. Laurence

RH.
cc:
Lynch
Shirley
Finance Office
Files

600

JUL 21 1955

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

Subject: Docket No. DMEA-3621 - Mica
Buchanan & Snyder
Jim Riddle Mine
Yancey County, North Carolina

Dear Mr. Laurence:

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

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

After execution of the contract, the copies are to be distributed in the usual manner. Copies of memoranda from N. E. Nelson of the Geological Survey, dated July 13, 1955, and from W. F. Dietrich of the Bureau of Mines, dated July 13, 1955, are enclosed.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee

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

Thor H. Kiilsgaard
Member, Geological Survey

Enclosures 10

WCAndersen:gad 7/20/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Memorandum July 15, 1955.

To: File

From: Walter C. Anderson, Nonmetallic Minerals Division

Subject: Evaluation of application and field examination report.
Docket No. DMEA-3821-Mica
Buchanan and Snyder
Jim Riddle Mine
Yancey County, North Carolina.

A contract is recommended.

Mica - Occurs abundantly in relatively large sizes. Ruby and non ruby in color, with 70% non-ruby. Some "A" structure and biotite inclusions, most is flat, clear, hard and free splitting.

Pegmatite - Poorly zoned and disconformable to the mica figanite gneiss wall rock. Maximum thickness of about 6 feet and at least 150 feet long. Pegmatite pinches and swells along strike.

Old workings - Open cuts over a distance of 150 feet, depth unknown. Early history not known. World War II production amount to 2090.1 pounds of green mica which was sold for $2,677.63

Method of exploring - 40 feet of crosscut from the hillside portal to intersect pegmatite 30 feet deeper than the deepest workings, then drift along pegmatite for a distance of 110 feet.

Economics and costs - The cost of $31.00 per foot for crosscutting and drifting is in line with similar projects in the area. 110 feet of drifting will be confined.

Based on above analysis we concur with the field team that a contract is warranted. The commodity specialists of Bureau of Mines and Geological Survey agree.

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

RECEIVED
JUL 13 1955

July 13, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 3821 (mica)

Applicant: Buchanan and Snyder

Name and Location of Property: Jim Riddle Mine
Yancey County, North Carolina

Date of Field Team Report: June 27, 1955

Date Rec'd by Br. of Ceramic and Fertilizer Materials: July 12, 1955

Field Team Recommendation: Recommend exploration contract at a cost of $4,763.00

Comments:

1. The proposed program of exploration will determine value of ground in mine that previously has been reported as a producer of mica.

2. The field team's covering memorandum apparently is in error regarding the distribution of Social Security and Insurance.

Recommendation:

I concur with the field team's recommendation.

SIGNED

W. F. Dietrich

IN REPLY REFER TO:

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

July 13, 1955

Re: DMEA 3821
Buchanan & Snyder
Jim Riddle Mine
Yancey Co., N. C.
$4,763.00 - Mica

Memorandum

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

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

Subject: Review of Field Team Report.

If this rich vein is found at the 120-foot (adit) level and for the length shown on surface, a good operation should come into being.

I concur with the recommendation of the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/13/55

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

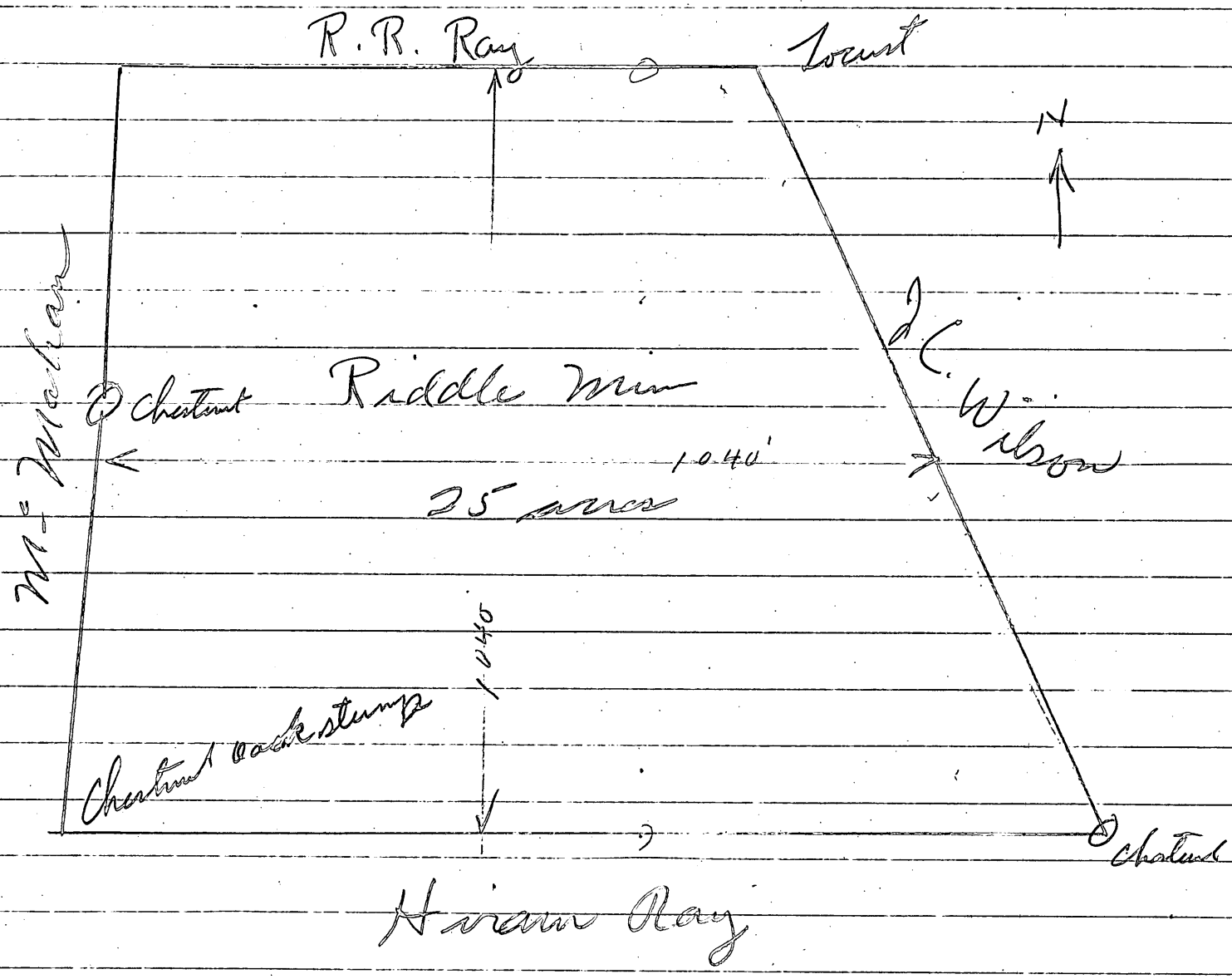
RECEIVED
JUL 15 1955

Docket No. DMEA-3821

Buchanan & Snyder

Minimum average dimensions of tract of land described in lease. The description is acceptable to the legal division, Mr. Anderson, Mr. Houk and Mr. Selfridge.

W.C. Anderson.



RECEIVED
JUL - 5 1955

July 1, 1955

Memorandum

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

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

Subject: Field Examination report, DMEA-3821 (Mica)
Buchanan and Snyder, Bakersville, North Carolina
Jim Riddle Mine, Yancey County, North Carolina

Enclosed are four copies of the subject report, and six extra copies of the sketch map. We recommend approval of a unit-cost contract as outlined in the report.

The item, Social Security and Insurance, is broken down as follows:

Social Security, 10% of payroll	$196.00
Insurance, 2% of payroll	39.20
Unemployment insurance, 2% of payroll	39.20
Sales tax @ 3%	50.00
Total	$324.40

Robert A. Laurence
Executive Officer
DMEA Field Team

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

RAL/mg
cc - Operating Committee
Lynch
Shirley
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
JUL - 5 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXAMINATION REPORT BY FIELD TEAM, REGION V

On

DMEA-3821, JIM RIDDLE MINE (mica)
Yancey County, N. C.

By

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

and

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

June 27, 1955

FIELD EXAMINATION REPORT
ON THE
JIM RIDDLE MINE - DMRA-3821 (mica)

RECEIVED
JUL - 5 1955

Applicants: Buchanan and Snyder, c/o Roby M. Buchanan, Route 1, Bakersville, North Carolina

This deposit produced about $2,700.00 worth of green mica during World War II. It has been mined only to shallow depths, thus there appears to be a good possibility that significant reserves of strategic mica can be found below the depth of previous workings. Exploration assistance is recommended.

The deposit was examined on June 17, 1955. Messrs. Roby Buchanan, two of his sons, and Joe Snyder accompanied the examiners on the inspection which required two hours.

The Jim Riddle mine is along the west side of a south flowing tributary of Cattail Creek, west of Grassy Ridge, 1.25 airline miles due east of Pensacola, Yancy County, North Carolina. Access to the property is good at all times.

The applicants appear competent to conduct the proposed work. Area under lease is adequate.

Past mining has been from open cuts which have reached an unknown depth. These cuts have been made over a distance of about 150 feet on a pegmatite which pinches and swells, with a maximum thickness of about six feet. The pegmatite strikes in a general northwest direction, dipping steeply to the southwest and is disconformable to the wall rock--a mica-kyanite gneiss.

The pegmatite is poorly zoned, consisting of a medial quartz core of glassy quartz bounded by feldspathic pegmatite which is composed of plagioclase, small scattered quartz, relatively abundant muscovite, and scattered red garnet. Inclusions of the wall rock occur in the pegmatite.

Mica from this pegmatite is both ruby and non-ruby in color, with the non-ruby constituting about 70 percent. Some contains "A" structure and biotite inclusions; however, most of the mica is relatively flat, clear, hard, and free splitting. It is abundant and occurs in relatively large sized.

Early history of this mine is not known. Apparently it was first worked by Ray and Silvers. During World War II Pollard and Bill worked the mine and produced 2090.1 pounds of green mica which was sold to the Colonial Mica Corporation for $2,677.63. This included 1627 pounds of punch. About 60 percent of this mica was classified as stained or better in quality.

The examiners believe that exploration assistance on the deposit is justified. The pegmatite is probably in excess of 150 feet in length, up to six feet in thickness, and is rich in mica.

As this deposit is on a steep hillside, the most logical way to explore it appears to be by an adit. It is recommended that the 40 feet (approximate) of crosscut be driven to intersect the pegmatite at a point approximately 30 feet deeper than the deepest workings; then the adit should follow the pegmatite on its strike to the northwest. A total of 150 feet of adit is recommended.

Estimated Cost:

Toolhouse	$75.00	
Powder magazine	25.00	
Exploder magazine	13.00	
Total		$113.00

Drive 150 feet of crosscut and drift 5' x 7' with portal timbered (70 shifts)

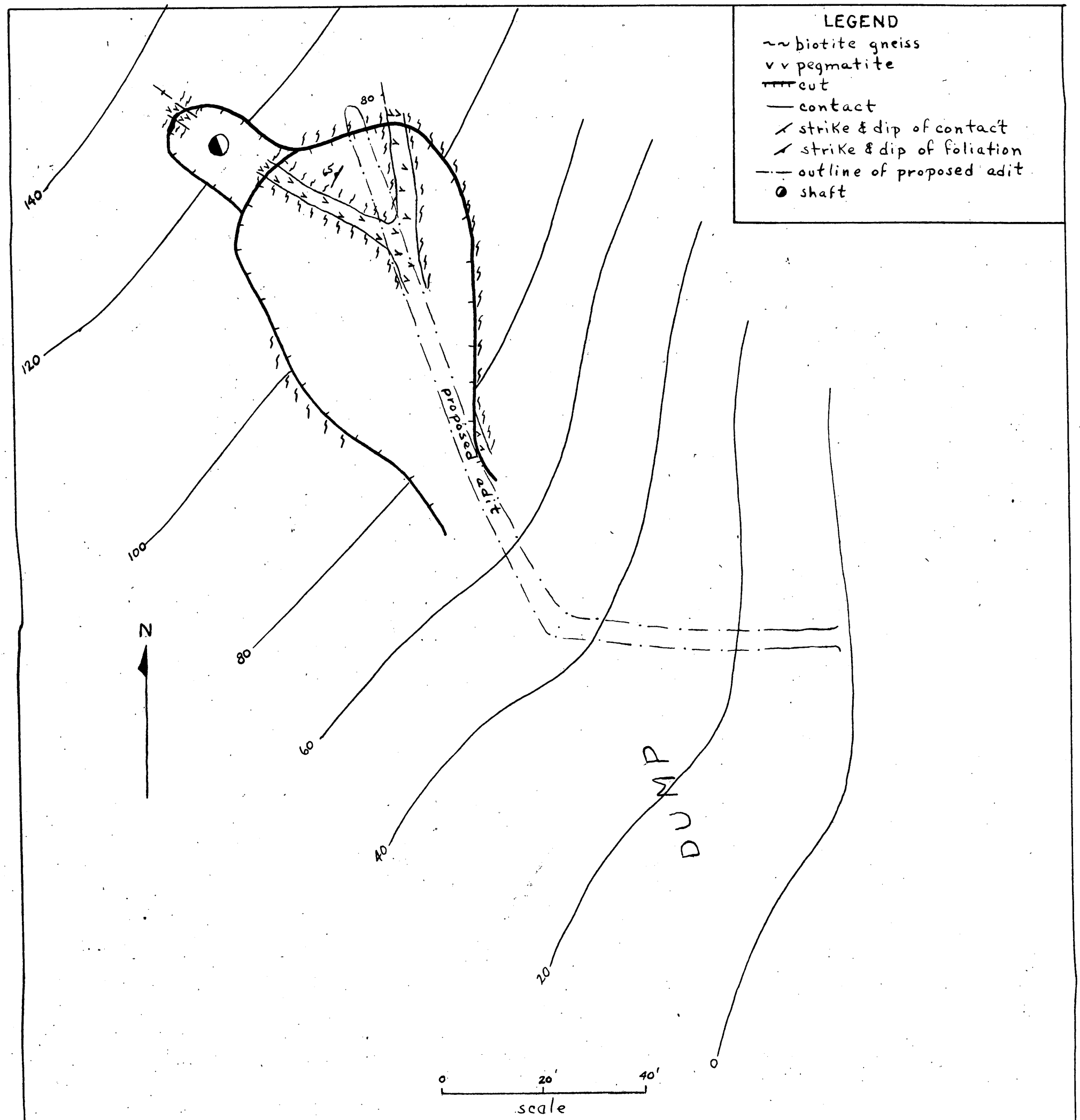
Labor:		
1 - Miner @ $1.50/hr.	$840.00	
2 - Laborers @ $1.00/hr.	1,120.00	
	1960.00	
Equipment (rental):		
Compressor, drill and jackleg @ $230/mo.	805.00	
Supplies:		
Explosives	450.00	
Drill steel	200.00	
Gasoline and oil	225.00	
Timber, 1,000 b.f. @ $65/M	130.00	
Small tools and pipe	200.00	
Rail	75.00	
Miscellaneous	255.00	
Insurance and Social Security	350.00	
Total		$4,650.00
ESTIMATED TOTAL COST		$4,763.00

June 27, 1955.

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

and

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



SKETCH OF
JIM RIDDLE MINE
YANCEY CO., N.C.

DMEA-3821 (mica)
June 17, 1955

600

JUN 16 1955

Messrs. Buchanan & Snyder
Route 1
Bakersville, North Carolina

Re: Docket No. [illegible]-[illegible]21 - Mica
Buchanan & Snyder
Jim Middle Mine
Yancey County, North Carolina

Gentlemen:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Lawrence, Executive Officer, DMEA Field Team, Region V, Room 13, Post Office Building, Knoxville 2, Tennessee, for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

WCAnderson:pk 6/13/55
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region V (2)
Mr. Dietrich, 3061
Mr. Killaguard, 3222
Mr. Houk

June 8-1950

Jim Riddle Trim

Description of property as given in lease is acceptable according to L. G. Hook - and Legal.

WCM.

JUN 16 1955
600

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

Subject: Docket No. DMEA-3821 - Mica
Buchanan & Snyder
Jim Riddle Mine
Bakersville, N.C.

Dear Mr. Laurence:

Please reveiw the subject application and arrange for a field examination if ou deem it necessary

Copies of memoranda from N. E. Nelson of the Geological Survey, dated May 26, 1955, and from W. F Dietrich of the Bureau of Mines, dated June 7, 1955, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures 4

Mr. W. C. Anderson:pk 6/13/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5222
Mr. Houk

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

RECEIVED
JUN - 7 1955

June 7, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3821 (mica)

Applicant: Buchanan & Snyder

Name and Location of Property: Jim Riddle Mine
Yancey County, North Carolina

Date Application Rec'd. by Br. of Ceram. & Fert. Mat.: May 20, 1955

Comments:

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

2. Applicants state that strategic quality mica was produced during World War II, but our incomplete records do not show this mine.

3. Geologic description appears to indicate a favorable area for exploration.

4. Proposed exploration consists of an adit and winze.

5. Total estimated costs are in the amount of $4,099.86.

Recommendation:

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

W. F. Dietrich

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1955

May 26, 1955

Re: DMEA-3521
Buchanan & Snyder
Jim Riddle Mine
Yancey Co., N. C.
$4,099.86 - Mica

Memorandum

To: L. C. Kunk, Defense Minerals Exploration Administration

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

Subject: Review of application

If an inspection and inquiries by the Field Team check the statements of the applicants concerning the geology and production of this property the driving of the adit may well be justified. A raise at the inner end to tap the bottom of the 35 foot shaft would facilitate the shaft sinking if such appears warranted. The water in the 35 foot shaft will probably find its way to the adit.

A referral to the Field Team is recommended.

R. E. Nelson

R. E. Nelson

RENelson:hlm
G-5/26/55

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