DMEA 3945

DOCKET INDEX

ACTION DOCUMENTS

1. APPLICATION DATE RECEIVED 8-9-55

2. CONTRACT DATE 10-6-55

3. TERMINATION AGREEMENT: DATE

   a. Mutual (with/without repayment provision).
   b. Unilateral.
   c. Amendment with automatic termination clause and with/without repayment provision.

4. CERTIFICATION DATE

5. AUDIT REPORT DATE

6. AMENDMENTS - NUMBERS DATE

STATE OF GEORGIA

COUNTY OF UPSON

RECEIVED
JAN 9 1956

THIS ASSIGNMENT made this the 31st day of October, 1955, by and between E. H. SCHWAB, of the County of Hillsboro and State of Florida, hereinafter referred to as party of the first part and S. L. PHILLIPS and J. R. BEAM, of the County of Avery and State of North Carolina, and JOHN PHILLIPS, of the County of Mitchell and State of North Carolina, hereinafter referred to as parties of the second part:

W I T N E S S E T H:

For that, whereas, party of the first part has heretofore conveyed and assigned all his right, title and interest in and to the lands hereinafter described and desires to transfer and assign unto the said parties of the second part any and all rights under a proposed loan from the United States of America, Department of the Interior, for the exploration of minerals on said lands:

> All of the minerals, including mica rights, being on that certain tract of land, in Upson County, Georgia, described as follows:
>
> All of 100 acres, more or less, of land lying and being in Upson County, Georgia, and being parts of Lots Nos. 1 and 50, in the 16th Land District of said County, and part of Lot No. 323, in the 1st Land District of said County, said tract being bounded as follows: North by Tobler Creek; East by the lands of T. J. Mitchell; South by public road; and West by Tobler Creek.
>
> This is the identical real estate conveyed to F. H. Duke by deed of Mrs. Judie P. Duke, et al., dated April 11, 1938, and recorded in Deed Book 85, Page 78, in Clerk's office, Superior Court, Upson County, Ga., reference to which is hereby made in aid of this description.
>
> Being the identical properties described in a certain instrument dated the 2nd day of July, 1955, from Fred Hill Duke and Mrs. Nellie Duke to E. H. Schwab.

NOW, THEREFORE, for and in consideration of the sum of ONE DOLLAR ($1.00) and other good and valuable consideration in hand paid to the party of the first part by the parties of the second part, receipt of which is hereby acknowledged, the party of the first part does hereby bargain, sell convey, assign and deliver unto the said S. L. Phillips, J. R. Beam and John Phillips any and all rights or privileges he has in and to said exploration

LAW OFFICES
FOUTS & WATSON
SPRUCE PINE, N. C.

project contract designated Docket No. DMEA 3945 of the United States of America, Department of Interior, Defense Minerals Exploration Administration. And the said party of the first part does hereby authorize the officials or agents of the United States of America to transfer and assign his interest in said contract to the said parties of the second part.

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

E. H. Schwab (SEAL)

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

Personally came before me this day E. H. Schwab, to me well known to be the persons who signed the foregoing Assignment and who acknowledged the due execution of said instrument by himself for the purposes therein expressed.

Witness my hand and notarial seal, this the 31st day of October, 1955.

Joyce Ellis
Notary Public

My Commission Expires August 2, 1957

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FOUTS & WATSON
SPRUCE PINE, N. C.

Docket Copy

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OCT 26 1955

MF-200A
(Revised June 1954)

Docket No. DMEA 3045

Commodity Mica

Contract No. Idm-E 886

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

It is agreed this OCT 6 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] Eddie Herbert Scarab,

whose mailing address is P. O. Box 155 Yatesville, Georgia,

hereinafter called the "Operator," as follows:

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

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

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

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] owner 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] ....., [7] ....recorded in Book ....., page ....., official records of said County; and

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

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

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

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

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Mica. The work to be performed is described in Exhibit "A." The Operator on or before NOV 15 1955 shall commence the work, and on or before April 20, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work. except as otherwise provided in Exhibit "A" with respect to stages of work.

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

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

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $ 5,524.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $ 4,143.00 : *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.

EDWIN HERBERT SCHRAD

(Operator)

By Edwin Herbert Schrad

THE UNITED STATES OF AMERICA

By Frank E. Johnson

ACTING Administrator, Defense Minerals Exploration Administration

Purbin

Appd. Sol. Off.

Anderson

J. H. Brown

Talbert

Selfridge

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

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OCT 26 1955

EXPLORATION PROJECT CONTRACT
EDWIN HERBERT SCHWAB
DOCKET NO. DMEA-3945

ANNEX I

The land referred to in Article 2 of the contract form is known as the Duke Mine. It is located on the Waymansville Road - 7 miles southwest of Yatesville, Upson County, Georgia, and is described in the application as follows:

> Parts of Lots 1 and 50 in the 16th Land District and part of Lot 323 in the first Land District; bounded on the north by Tobler Creek, on the east by T. J. Mitchell land, on the south by Waymansville Road, and on the west by Tobler Creek.
>
> The land is described in a deed to F. H. Duke recorded in Deed Book 85 at page 78 etc., and consists of 100 acres more or less.

EXPLORATION PROJECT CONTRACT
EDWIN HERBERT SCHWAB
DOCKET NO. DMEA-3945

RECEIVED
OCT 26 1955

EXHIBIT "A"

Description of the Work

Exploration for concentrations of strategic mica shall be accomplished in the area indicated on the map entitled "Figure 123.--Map of the Duke Mine, Upson County, Ga.," attached hereto and made a part hereof, as follows:

The work is divided into two stages as indicated below. The Operator shall perform Stage I, and shall perform as much of Stage II as the Government approves in writing.

Stage I

With a model D-7 caterpillar tractor w/dozer or equivalent unit, cut a trench along the strike of the pegmatite approximately 325 feet long by 20 feet wide by 4 feet deep.

Stage II

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. Sink on the pegmatite not more than 50 feet of a 2-compartment, inclined shaft.

3. Explore the pegmatite by driving from the shaft (item 2) not more than 80 feet of drifts and/or crosscuts.

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

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

FIXED UNIT COSTS

Bulldozing trench - 30 hours @ $12.00 hr.	$ 360.00
Constructing - Toolhouse 1/	76.00
Powder magazine 1/	25.00
Exploder magazine 1/	13.00
Sinking 50 feet of inclined shaft @ $45.00/ft.	2,250.00
Driving 80 feet of drifts and/or crosscuts @ $35.00/ft.	2,800.00
Estimated total cost of project	$5,524.00
Government participation @ 75%	4,143.00

1/ The completed work constitutes the unit.

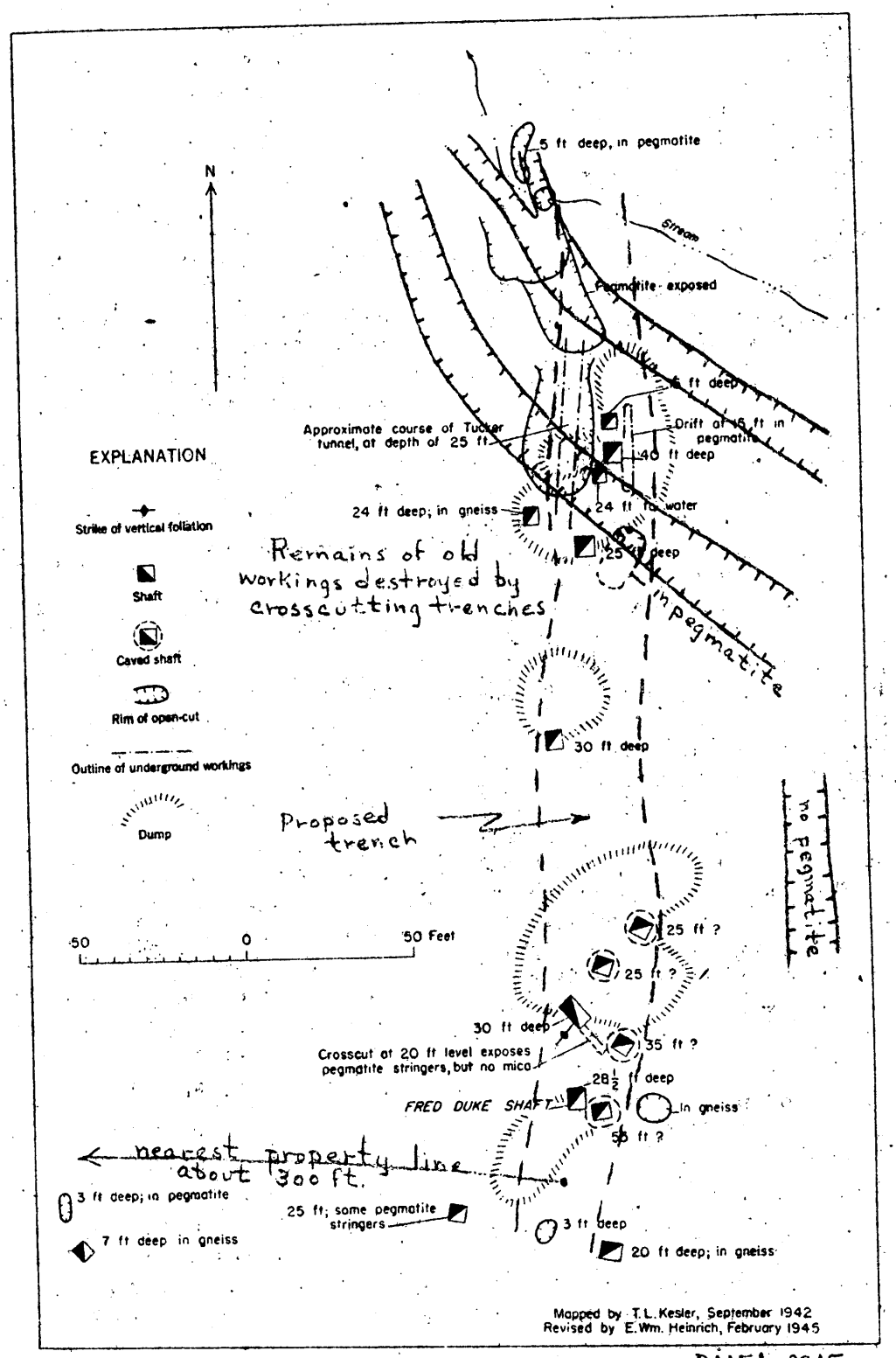

FIGURE 123.—Map of the Duke mine, Upson County, Ga.

DMEA-3945
Sept. 2, 1955

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56)

OFFICIAL FILE COPY

Date	Surname	Code
3/5	Anderson	600
3/6	Hook	600
3-6	Chambers	800
3/7	Selfridge	170
"	Johnson	110
"	Mittendorf	100
3/8	C	220
		225

600

MAR - 7 1957

Mr. Edwin Herbert Schnab
P. O. Box #55
Yatesville, Georgia

Re: Docket No. DMEA-3945-ulm
Edwin Herbert Schnab
Duke Mine
Upson County, Georgia
Contract No. [illegible]

Dear Mr. Schnab:

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

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

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WCAnderson:ms 3/5/57
Copy to: Docket
Mr. Chambers
Admr. R. File
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Field Team, Region V

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/5	Anderson	600
3/6	Hook	600
		800
		170
		110
		100
		770

600

Project Summary Report

March 5, 1957

By: Walter C. Anderson

1. Docket No. DMEA-3945-mica
Contract No. Idm-E886
Duke Mine
Upson County, Georgia

Application: Form MF-103 (April, 1952) received August 9, 1955
Work proposed by applicant:
For work which included bulldozing and shaft sinking $3,510 was requested. The extent of bulldozing and shaft sinking was not specified.

Operator: Edwin Herbert Schwab
P. O. Box 55
Yatesville, Georgia

Operator's Property Rights:
Owner of mineral rights

2. Contract: Form MF-200A(June, 1954), dated October 6, 1955
Work authorized:

Bulldozing trench - 30 hrs. @ $12/hr.	$ 360.00
Construction new buildings	114.00
Sinking 50 feet of shaft @ $45/ft.	2250.00
Driving 80 feet of drifts and/or crosscuts @ $35/ft.	2800.00
Estimated total cost ofproject	$5524.00
Government participation @ 75%	$4143.00

Amendments: none

Work Completed:
Same as authorized

Project began October 26, 1955 and ended February 29, 1956.
Field Team Final Report received April 11, 1956.
Operator's Final Report received March 29, 1956.
Mica production including final sale dated November 20, 1956 amounted to value of $6,651.40 for which royalties totalling $332.57 have been paid.

3. Audit:

Report of Review issued April 17, 1956:

Total accepted cost	$5,524.00
Government participation @ 75%	$4,143.00

4. Certification of Discovery - none issued

5. Comments:

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

Operation:
Good

Operations [illegible] 3/26/56
[illegible] by James J. Phillips [illegible]

Engineering:
Operator's monthly progress reports were fairly good.

Geological Criteria upon which work was based:
1. Pegmatite - 2 to 15 feet thick, unzoned, conformable to enclosing biotite gneiss.
2. Mica - ruby, hard, flat and clear. In general, of excellent quality
3. Past production

Criteria developed during project:
1. Pegmatite - maximum thickness 20 feet, fine-grained, weathered, unzoned, conformable to enclosing weathered biotite gneiss. Contains kaolinized feldspar, quartz, muscovite, biotite and sericite.
2. Mica - Ruby, hard, free-splitting, generally of excellent quality. The mica-rich zone pinched out below the 20-foot level. No reserves can be inferred.

Future possibilities:
None

Recommendations:

Since the mica zone pinched out below the 20-foot level and no reserves can be inferred, the Field Team recommends that the project not be certified. The Nonmetallic Minerals Division and the Commodity Members of the Bureau of Mines and Geological Survey concur.

Walter C. Anderson
Nonmetallic Minerals Division

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

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

Project Summary Report

March 5, 1957

By: Walter C. Anderson

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2. Mica - ruby, hard, flat and clear. In general, of excellent quality
3. Past production

Criteria developed during project:
1. Pegmatite - maximum thickness 20 feet, fine-grained, weathered, unzoned, conformable to enclosing weathered biotite gneiss. Contains kaolinized feldspar, quartz, muscovite, biotite and sericite.
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Recommendations:

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Walter C. Anderson

Walter C. Anderson
Nonmetallic Minerals Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1-1010 POST OFFICE BLDG.
KNOXVILLE 2, TENNESSEE

WASHINGTON

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 30 1957

DATE	INITIALS	CODE
1-30	C	220
1-30	EET	800
		225

January 28, 1957

Memorandum

To: Operating Committee, DMEA- Washington

From: Acting Executive Officer, DMEA - Region V

Subject: Docket No. DMEA-3945, Idm-E886-mica. Duke Mine, Upson County, Georgia.

Reference is made to your letter of January 18, concerning sales of mica from the subject mine.

Mr. Sam L. Phillips and others purchased the lease of this property from Edwin H. Schawb. Mr. Phillips advised this office that all mica produced from the property has been sold. The final sale was made November 20, 1956 and royalty paid to date.

V. J. Lynch.
V. J. Lynch

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6)

OFFICIAL FILE COPY

Date	Surname	Code
1-15	Anderson	600
1/15	Houk	600
1-16	Chamber	800
1/18	Selfridge	130
1-18	Fehrman	110
"	Rottenberg	100
1-22	C	220

600

JAN 18 1957

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

Re: Docket No. DMEA-3945-Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia
Contract No. Idm-E886

Dear Mr. Laurence:

Reference is made to our letter of October 15, 1956, concerning sales of mica produced from the subject property.

We wish to inquire if the two sales of November 20, 1956, are the final sales of the production during the life of the project and up to September 26, 1956. If so, we will write a closing letter to the Operator.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

O. M. Bishop
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

WCAnderson:gad 1/15/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

RECEIVED
OCT 22 1956

October 19, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-3945, Idm-E886-Mica. Edwin Herbert Schawb, Yatesville, Ga. Duke Mine, Upson County, Ga.

Reference is made to your letter of October 15.

Following is a list of all sales of which we have knowledge, between October 6, 1955 (contract date) and September 26, 1956.

4-6-56 to	GSA	-	21.00 lbs	$245.29
4-19-56	"	-	36.39 "	616.78
5-4-56	"	-	15.11 "	184.75
7-5-56	"	-	254.11 "	4417.46
			Subtotal.....	$5464.28
8-4-56	Scrap		5580 lbs.	88.20
8-4-56	Punch		5000 "	75.00
8-4-56	Scrap		1000 "	15.00
			Total....	$5642.48

We have had no opportunity to visit and inspect the mine since last spring. We are writing the Operator to inquire if there has been any production since July. Records at the GSA Depot do not indicate any purchases from the Duke Mine after July 5, 1956.

A recheck of our royalty records indicates that we have been paid twice on the $245.29 and $616.78 sales.

V. J. Lynch
Member, Bureau of Mines

Robert A. Laurence
Executive Officer, DMEA-Region V

RECEIVED
OCT 22 1956

October 19, 1956

Mr. E. H. Schwab
P.O. Box 55
Yatesville, Georgia

Re: DMEA-3945, Idm-E886-Mica
Duke Mine, Upson County, Ga.

Dear Mr. Schwab:

In order to complete our records on the Duke mine, we need to know how much mica was produced between October 6, 1955 (the contract date) and September 26,1956. Royalty is due on all mica mined during that period, even though it may not be sold until a later date.

We have received royalty payments on the following:

To GSA -	4-16-56	21.00 lbs	$245.29
"	4-19-56	36.39 "	616.78
"	5-4-56	15.11 "	184.75
"	7-5-56	254.1b "	4417.46
Scrap	8-4-56	5580 lbs	88.20
Punch	8-4-56	2 1/2 tons	75.00
Scrap	4-4-56	1/2 ton	15.00
		Total	$5,642.48

If there has been production in addition to what is listed above, please advise me.

Very truly yours,

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

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

IN REPLY REFER TO:

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

RECEIVED
OCT 1 1956

October 18, 1956

Re: DMEA 3945, Idm E-886
E. H. Schwab
Duke Mine
Upson Co., Georgia
$5,524 - Mica

Memorandum

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

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

Subject: Review of Field Team final report.

The contract approved the expenditure of $5,524 for the further exploration of a 20-foot pegmatite on which much work has been done and considerable mica recovered. Reports of past production show a range of $38,000 -- $2,000 to $40,000.

The work done consists of a bulldozed trench, test pits, a 50-foot shaft, 23 feet of crosscut and 63 feet of drifting. The cost equaled the sum approved.

In the course of the work, mica to the value of $1,500 (estimated) was recovered and the estimated value of the reserves is $1,000. The larger part of the mica recovered came from the trench, upper part of the shaft and the northern end of the drift. A pitching ore shoot related to an undulating hanging wall is suggested. The figures afforded do not inspire a close analysis and estimate of the potential of the pegmatite but do give the impression the mica shoot has more value than - by inference - is ascribed to it.

The examiners and the Field Team recommend that no certification be made.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

Docket Copy
Surname:
Anderson
Hoppe
Selfridge
Fehrenbacher
Matthews

UNITED STATES
PARTMENT OF THE INTERIOR
EFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

SEP 20 1956

A. Laurence
Officer, DMEA
Ma, Region V
Post Office Bldg.
e 2, Tennessee

Subject: Docket No. DMEA-3945-Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia
Contract No. Idm-2886

. Laurence:

Reference is made to your memorandum of September 5, , to the Operating Committee relating to the subject contract commenting on a "significant discovery" with respect to ing a recommendation for certifying a discovery or develop- t.

You mention that there is still no precise definition f a "significant discovery". To attempt to write such a definition to fit the various conditions under which the many strategic and critical minerals occur is of course absurd. In general each case must be considered on an individual basis. The importance of the possible production that may result from the project should be taken into account. For some mineral deposits a few tons might not be of any significance but for others this amount would be a major discovery. Certainly, if the deposit found could be profitably exploited, it should be considered as a "significant discovery". It should also be so classed if the deposit found compared favorably in grade, size, and value with the usual type of such deposits found and mined in the United States. Also, although a deposit might not be commercial under present conditions, if it appears likely to become commercial within a period of 10 years from the date of the contract through changing conditions, such as increased prices, emergency use, or metallurgical improvements, then it might be considered as a "significant discovery". The determination is a matter of good judgment for which we must rely upon the Field Teams based upon the training and experience of those making the recommendations.

Many cases seem to be of a borderline nature. In order to assist you in making a determination in such cases insofar as mica is concerned, it is suggested that the following criteria be used as a guide:

persistence and strength of the pegmatite.

(3) Favorableness of geological environment for mica-bearing pegmatite.

( ) Mode, continuity, quantity, and quality of the mica occurrences.

(4) Importance of possible production -

(a) Quantity, grade, and value.
(b) Compare with usual productive mica mines.
(c) Possibility of commercial exploitation.

If the Field Team's appraisal of the productive potential of a discovery or development of mica indicates that several hundred dollars might be paid to the Government in royalties, then the project should be certified as a discovery or development. After the property is no longer productive or at some future time it appears that the Government will receive no more royalties upon recommendation from the Field Team approval can be given for discontinuing the semi-annual reports on the property.

With regard to the last paragraph of your memorandum, there appears to be a misunderstanding concerning the results of work performed by the operator subsequent to completion of the exploration project work. Certification is based upon the Government's opinion that a discovery or development from which production may be made has resulted from the work performed under the project. That means if the DMEA work has found ore (mica) or made ore (mica) accessible so that it (mica) may be produced (not necessarily at a profit), the project will be certified. Therefore, if mica has not been found or the work has not reached a point where mica is accessible for mining, a certification would not be issued. On the other hand, if mica had been found or made accessible; but the extent was not sufficient to determine if production is feasible, then we should wait out the period within the time limits for certification for the results of mining operations by the operator. His mining operations might give some information as to the extent and production possibilities of the property on which to base a certification decision, especially in the borderline cases.

We trust the foregoing will aid you in the problems of making recommendations on some of your cases.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (HB)

Approved:

P. F. Yopes
Member, Bureau of Mines (HB)

Thor H. Kiilsgaard
Member, Geological Survey (HB)

FEJohnson:LGHouk:gad 9/18/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson

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

September 5, 1956

RECEIVED
SEP - 7 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-3945, Idm-E886 (mica) Edwin H. Schwab, Yatesville, Ga.
Duke Mine, Upson County, Georgia

Reference is made to your letter of August 29.

Although none of our staff has visited the Duke Mine recently, it is our understanding that all the mica produced after completion of the contract was taken from the open cut, 20 to 40 feet south of the contract shaft. This is mica which was known at the time of completion of the contract and was included in the reserve estimates, although apparently the dollar value of those reserves was underestimated.

This contract is one of those marginal cases where a recommendation either for or against certification is difficult to justify, as there is still no precise definition of a "significant discovery." On the basis of discovering a deposit which the Operator can work and from which he can produce some mica, this would qualify. On the other hand, it seems unlikely that it will yield $1000 in royalty, which is estimated to be the minimum cost to the Government of carrying a certified project on the records for 10 years, and therefore on that basis it would not qualify.

It is still our opinion that, in comparison with other contracts of the past two years, the Duke mine does not warrant certification.

We are puzzled by your question whether "subsequent mining activity possibly has resulted in sufficient additional reserves to warrant certification." We have thought that certification had to be based on the results of the contract alone, and that we could not wait to see what additional reserves the Operator discovered by his own efforts before deciding on our recommendation. If we are wrong in that belief, please advise us, as there may be other contracts where a few months' waiting period would afford a better basis for certification.

Wm. A. Beck

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

Robert A. Laurence

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

cw

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

600

DOCKET COPY
Surname:
Anderson
Houk
Selfridge
Gilmore

AUG 27 1956

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

Re: Docket No. DMEA-3945-mica
Edwin Herbert Schaub
Duke Mine
Upson County, Georgia
Contract No. Idm-E886

Dear Mr. Laurence:

Reference is made to the subject contract which was completed on February 29, 1956, and which the Field Team recommended not be certified.

Production from this mine since contract completion has resulted in the sales of $5,279.53 worth of mica to the Government Depot, and does not include possible sales of scrap mica. In the Field Team's final report, the estimated value of mica produced during the project and reserves was given as $2,500.00 Does the mica sold to date represent the processed mica produced during the contract, or has there been subsequent mining activity that possibly has resulted in sufficient additional reserves to warrant certification?

We will appreciate receiving a report on the status of this project before the expiration of the time within which certification may be made, which is September 26, 1956.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

Approved:

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

W. P. Williams (GCS)
Member, Geological Survey

WCAnderson:ms 8/27/56
Copy to: Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Admr. R. File

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

RECEIVED
APR 1 9 1956

April 18, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-3945 (mica)

Applicant: E. H. Schwab

Name and Location of Property: Duke Mine, Upson Co., Ga.

Contract Number: Idm-E 866

Date of Field Team Report: 4/3/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 4/12/56

Field Team Recommendation: Recommend no certification of discovery.

Comments:

1. The muscovite-rich zone, near the surface, has apparently "pinched out" below the 20 foot level.
2. No significant reserves were discovered.
3. Expenditures -

Total approved	$5,524.00
Total cost	5,524.00
Gov't. share of the cost	4,143.00
Value of production during operation	Unknown

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

W. F. Dietrich

W. F. Dietrich

~~4113~~
3945

Date 4-13

Referred to:

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

Note comments in report regarding:

1. Final

2.

3.

4.

and take appropriate action.

- - - - - -

Action taken by Division:

ROTHST [illegible]

_____
Initials

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

RECEIVED
APR 11 1956

April 9, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Team - Final Report - DMEA-3945, Idm-E886, Duke Mine, (mica) Upson County, Georgia

Transmitted are four copies of the subject report.

The Field Team is in agreement with the Examiners that no certification should be issued on this project.

Robert A. Laurence

Robert A. Laurence

Reviewed by
DMEA OPERATING COMMITTEE
4-13-56
(date)

RECEIVED
APR 11 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL
FIELD TEAM EXAMINATION
REPORT, REGION V

DMEA-3945, Idm-E886(mica) DUKE MINE
Upson County, Georgia

By

A. R. Taylor, Geologist
Geological Survey

Wm. A. Beck, Mining Engineer
Bureau of Mines

April 3, 1956

Reviewed by
DMEA OPERATING COMMITTEE
4-13-56
(Date)

FINAL REPORT

RECEIVED
APR 1 1 1956

DMEA-3945, Idm-E886, (mica) DUKE MINE
Upson County, Georgia

Operator: Edwin H. Schwab, P.O. Box 55, Yatesville, Georgia

Summary

Some strategic quality muscovite was recovered during the contract period. No further exploration is warranted. The field examiners do not recommend certification of the Duke Mine.

Introduction

Location

The Duke Mine is on the Waymansville Road, 7 miles southeast of Yatesville, Upson County, Georgia, and is on Lots No. 1 and No. 50 of the 16th Land District of the county.

History

The mine was discovered in 1916. It was worked by several operators during World War II. The total past production has probably been worth about $5000. The Operator recovered about $900 worth of mica from two trenches before the work done under DMEA-3945. (see field examination report, Duke Mine, Sept. 8, 1955).

Work under the contract, DMEA-3945, Idm-E886, began October 26, 1955, and ended February 29, 1956. The Operator has removed his equipment and will do no further work.

Mine Workings (see map)

Work done under Stage I consisted of bulldozed trench in weathered material (175 ft x 7 -20 ft x 17 ft wide). Several pits were dug, 6 to 7 ft in width and depth, then the Operator did more bulldozing.

A 2-compartment/vertical shaft, timbered to 38 feet level was sunk to a depth of 50 feet on mica-bearing pegmatite (includes 5 foot covered sump). It intersected an old drift at the 25 foot level, and intersected the footwall

contact at the 42 foot level.

A crosscut extends 23 feet N 62° W from the 45 foot level to the hanging wall contact. From that point a drift extends to the north along the wall for a total of 63 feet.

A toolhouse (7' x 8' x 10') and powder and exploder magazines were constructed.

Water flowed in, creating a pumping and timbering problem, and making slush out of the soft material encountered in the northernmost drift heading.

The Operator conducted the project satisfactorily. No equipment was purchased by the Government under the contract.

Geology

Pegmatite - Country Rock

A fine-grained, weathered, conformable and unzoned pegmatite enclosed in weathered biotite gneiss, was uncovered by trenching. Its maximum thickness is about 20 feet. Strikes and dips on the surface and at the shaft bottom are generally N 15° E and 50° NW. Undulations along the walls vary the strikes from N to NW, and the dips from W to SW.

Mineralogy of the pegmatite includes kaolinized feldspar, disseminated quartz, ruby muscovite, biotite, and sericite. The country rock is migmatized at the shaft bottom and is harder than the pegmatite.

Muscovite

A total (estimated) of about 2350 pounds of "mine-run-block" ruby muscovite has been recovered (1500 lbs in trenching, 450lbs in upper 20 ft of shaft, and about 400 lbs in northern end of drift).

The muscovite is ruby, hard, free-splitting, some clay stained, but generally of excellent quality. Some crystals were 6 x 8 inches in width.

Reserves:

The muscovite-rich zone, near the surface, has apparently "pinched out" below the 20 foot level in the shaft. No reserves can be inferred, except that which can be reached near the surface by a bulldozer. Inferred reserves may be 1500 pounds.

Conclusions and Recommendations

Only about 2350 lbs of "mine-run-block" mica has been recovered. No further exploration is warranted. No reserves of significant amounts have been discovered, therefore it is recommended that the mine not be certified.

Expenditures

(a)	Amount approved	$5,524.00
(b)	Total Amount Spent	5,524.00
(c)	Government share of cost	4,143.00
(d)	Value of production (estimated)	1,500.00
(e)	Royalty paid	None
(f)	Possible value of reserves	1,000.00

A. R. Taylor, Geologist
Geological Survey

Wm. A. Beck, Mining Engineer
Bureau of Mines

April 3, 1956

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

March 27, 1956

RECEIVED
MAR 29 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Operator's Final Engineering and Geological Report on: DMEA-3945, Idm-2886-Mon. Duke Mine, Upson County, Ga.

Transmitted are four copies of the Operator's final engineering and geological report on the subject contract.

The January and February Monthly Reports and Vouchers are being released for payment. The Field Teams final report will follow soon.

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

V. J. Lynch, Member
Bureau of Mines

ZM.
cc:
Opr. Com.
Lynch
Files
Book

Operator's Final Report

Spruce Pine, North Carolina
March 26, 1956

RECEIVED
MAR 30 1956

Mr. Robert A. Laurence, Executive Officer
D. M.E.A., Region V
Room 13, Post Office Building
Knoxville, Tennessee

Re: DMEA-3945, Idm-E 886, Mica
Duke Mine, Upson County, Georgia
Final Engineering Report

Dear Mr. Laurence:

Work began on the Duke project on November 2, and completion made on February 29. We bulldosed trench as called for in contract, recovering some mica. Stage II was a proved by field team, and shaft was lowered to a depth of 50 feet, timbering as necessary. Very little mica was recovered in shaft, although we were in vein all the way down. A drift was driven a total distance of 80 feet, beginning with 6' in the East slate, then following the West slate the remaining distance. The drift began to run out of vein at ten to twelve feet, and continued in slate and hard material to about 46'. At this point, vein changed from yellow to grayish pegmatite, and we began to pick up small pieces of mica. We continued to recover some small mica to the completion of the 80 feet, and a total of about 400# of small was recovered.

Work on the contract was completed on February 29, and we plan to work the project further, as long as production will warrant.

None of the mica recovered from the Duke Mine has been sold, but will be worked and sold in the near future.

We wish to thank the field team for their assistance at the Duke project, and will be glad to furnish further details of the operation if they are necessary.

Very truly yours,

Sam L. Phillips

Sam L. Phillips

s/b

Operator's Final Report

Spruce Pine, North Carolina
March 26, 1956

RECEIVED
MAR 30 1956

Mr. Robert A. Laurence, Executive Officer
D. M.E.A., Region V
Room 13, Post Office Building
Knoxville, Tennessee

Re: DMEA-3945, Idm-E 856, Mica
Duke Mine, Upson County, Georgia
Final Engineering Report

Dear Mr. Laurence:

Work began on the Duke project on November 2, and completion made on February 29. We bulldozed trench as called for in contract, recovering some mica. Stage II was a proved by field team, and shaft was lowered to a depth of 50 feet, timbering as necessary. Very little mica was recovered in shaft, although we were in vein all the way down. A drift was driven a total distance of 80 feet, beginning with 6' in the East slate, then following the West slate the remaining distance. The drift began to run out of vein at ten to twelve feet, and continued in slate and hard material to about 46'. At this point, vein changed from yellow to grayish pegmatite, and we began to pick up small pieces of mica. We continued to recover some small mica to the completion of the 80 feet, and a total of about 400# of small was recovered.

Work on the contract was completed on February 29, and we plan to work the project further, as long as production will warrant.

None of the mica recovered from the Duke Mine has been sold, but will be worked and sold in the near future.

We wish to thank the field team for their assistance at the Duke project, and will be glad to furnish further details of the operation if they are necessary.

Very truly yours,

Sam L. Phillips

Sam L. Phillips

P/b

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

RECEIVED
MAR 29 1956

RECEIVED
MAR 29 1956

March 27, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Operator's Final Engineering and Geological Report on: DMEA-3945, Idm-E886-Mica. Duke Mine, Upson County, Ga.

Transmitted are four copies of the Operator's final engineering and geological report on the subject contract.

The January and February Monthly Reports and Vouchers are being released for payment. The Field Teams final report will follow soon.

Robert A. Laurence

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

V. J. Lynch

V. J. Lynch, Member
Bureau of Mines

Operator's Final Report

Spruce Pine, North Carolina
March 26, 1956

RECEIVED
MAR 29 1956

Mr. Robert A. Laurence, Executive Officer
D. M.E.A., Region V
Room 13, Post Office Building
Knoxville, Tennessee

Re: DMEA-3945, Idm-E 886, Mica
Duke Mine, Upson County, Georgia
Final Engineering Report

Dear Mr. Laurence:

Work began on the Duke project on November 2, and completion made on February 29. We bulldozed trench as called for in contract, recovering some mica. Stage II was approved by field team, and shaft was lowered to a depth of 50 feet, timbering as necessary. Very little mica was recovered in shaft, although we were in vein all the way down. A drift was driven a total distance of 80 feet, beginning with 6' in the East slate, then following the West slate the remaining distance. The drift began to run out of vein at ten to twelve feet, and continued in slate and hard material to about 46'. At this point, vein changed from yellow to grayish pegmatite, and we began to pick up small pieces of mica. We continued to recover some small mica to the completion of the 80 feet, and a total of about 400# of small was recovered.

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None of the mica recovered from the Duke Mine has been sold, but will be worked and sold in the near future.

We wish to thank the field team for their assistance at the Duke project, and will be glad to furnish further details of the operation if they are necessary.

Very truly yours,

Sam L. Phillips

Sam L. Phillips

P/b

RECEIVED
MAR 27 1956
Geologic Division
Knoxville, Tenn.

DOCKET COPY
Surname:
Anderson
Houk
Selfridge
Fabian
McSteudorf

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

MAR 22 1956

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

Re: Docket No. DMEA-3945-Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia
Contract No. Idm-2886

Dear Mr. Laurence:

Reference is made to your memorandum of February 28, 1956, recommending assignment of the subject contract to Messrs. S. L. Phillips, J. R. Beam and John Phillips of Spruce Pine, North Carolina.

Please be advised that we requested the Legal Division to prepare this assignment and they advised that since all the work under the contract is completed, there is no need for preparation of an assignment.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

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

W. P. Williams (WPW)
Member, Geological Survey

WCAnderson:ms 3/19/56
Copy to: Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson
Admr. R. File

Note: In telephone call to V. J. Lynch on 3/29/56 Mr. Chambers advised Field Team that all claims in MF-104 should be in name of Edwin Herbert Schwab and that payment of Govt. contribution should be made only to Schwab.
Talbert

RAL

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

RECEIVED
FEB 29 1956

February 28, 1956

Memorandum

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

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

Subject: DMEA-3945, Idm-E886 (Mica)
Edwin H. Schwab
Duke Mine, Upson County, Georgia

Enclosed are the original and one copy of a letter from Edwin H. Schwab, requesting assignment of the subject contract to S. L. Phillips, J. R. Beam and John Phillips of Spruce Pine, N. C., written in response to Mr. Mittendorf's letter of February 6, 1956.

So far as we know, the only response from Messrs. Phillips, Beam and Phillips has been a letter dated December 22, 1955, the original and one copy of which are enclosed. As to their qualifications, all three of these men have successfully completed several DMEA contracts and are far more capable of doing the work than Mr. Schwab is.

There seems to be some confusion about what has actually been transferred. It is our understanding that Mr. Schwab owned the mineral rights (see article 2 b 1 of the contract) and that he sold these to Messrs. Phillips, Beam and Phillips. Therefore, it appears to us that Consent to Lien is not required in connection with this contract assignment.

We recommend approval of the assignment. In the meantime, we are withholding payment on the Operator's vouchers. We understand that work under the contract will be completed early in March.

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

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

Enclosures 4

Phone 8-2332 Yatesville,Ga. P.O.Box-55

Feb.23,1956.

RECEIVED
FEB 29 1956

RECEIVED
FEB 27 1956
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

nited States
epartment of the Interior
ence Minerals Exploration Adm.

. Robert A. Laurence

xecutive Office,Region V

noxville,Tenn;

Dear Mr. Laurence:

Instructions from Mr. C.O. Mittendorf,Administrator of ence Minerals Exploration Administration,Washington D.C.-require that my quest for an assignment of Contract No. Idm-E 886,be made through your office.

Therefore :Herewith respectfully request a full assignment of all of my interest in and to said Docket No.DMEA-3945--Edwin Herbert Schwab--Duke Mine--Upson County,Ga. -Contract No. Idm.E-886-- to be made to Messrs. S.L.Phillips,J.R.Beam and John Phillips,of Spruce Pine,N.C.

Messrs. Phillips,Beam and Phillips have advised me that they have advised your Department of their willingness to accept the terms and provisions of said contract and any amendments thereto and presented their qualifications.

Due to an accident causing bodily injury(broken ribs,displaced cartilege and heart injury) shortly before date of contract execution,it being doubtful of my physical condition permiting execution of the contract,it was my desire to have capable,experienced and financally responsible parties to execute the contract therefore Mr. S.L.Phillips agreed to have the Contract transferred to Messrs. Phillips,Beam & Phillips and they agreed to assume all of my obligations thereto.

Said Phillips,Beam & Phillips did forthwith proceed to comply with the exploration,management and developement of the Duke Mine and should have same completed on or before March Ist.1956.Have been advised they lack 13 feet of drift to complete the contract,approximately three days work.

Trust this will meet with your approval and the Washington Office,

Respectfully yours,

Edwin Herbert Schwab

Ed.H.Schwab.

2 Copies

RECEIVED
FEB 29 1956

Spruce Pine, North Carolina
December 22, 1955

Mr. Robert A. Laurence, Executive Officer
D. M. E. A., Region V
Room 13, Post Office Building
Knoxville, Tennessee

Re: DMEA-3945, Idm E-886 (Mica)
Duke Mine, Upson Co., Ga.

Dear Mr. Laurence:

I am enclosing a copy of an assignment of the lease covering property on the above contract. I wish to have the contract transferred to S. L. Phillips, J. R. Beam, and John Phillips inasmuch as we have purchased the land and the lease.

If further information is necessary, please contact me.

Very truly yours,

Sam L. Phillips

Sam L. Phillips

B/b
Enclosure

RECEIVED
DEC 27 1955
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

RECEIVED
FEB 29 1956

INTERIM REPORT

DMEA-3945, Idm-E886, DUKE MINE (mica)

Operator: Edwin W. Schwab, P.O. Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville, Upson County, Georgia

This project was visited February 24, 1956. No work was being done as the pump had broken down and had been taken to Spruce Pine for repairs. From the appearance of the material on the dump the drift was still in pegmatite, but seemed barren of any sheet mica. Mr. Schawb who was seen at the Persons Mine stated the drifting lacked 13 feet being completed.

Inspected: February 24, 1956

Wm. A. Beck, Mining Engineer
Bureau of Mines

A. R. Taylor, Geologist
Geological Survey

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INTERIM REPORT

RECEIVED
FEB 15 1956

DMEA-3945, Idm-E886, DUKE MINE (Mica)

Operator: Edwin H. Schwab, P. O. Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville, Upson County, Georgia

This project was visited on February 9, 1956 by the field examiners. Work is progressing satisfactorily on this contract.

A crosscut, trending N. 62° W., from the 45-ft level in the shaft has intercepted the hanging wall of the country rock at 23 ft. That gives a total width of 23 ft of pegmatitic material.

A drift from the crosscut has been driven 16½ ft in a N. 25° E. direction, entirely in pegmatite, barren of strategic muscovite. Some scrap size muscovite exists along the contact. The pegmatite-gneiss contact undulates on the west wall of the drift, making a series of changed dips, to the west and east.

Two holes have been drilled for the benefit of the examiners to determine whether or not the gneiss encountered at the bottom of the shaft and at the end of the crosscut was inclusions of country rock. One horizontal hole was drilled 6 ft to the east from the 40-ft level in the shaft. It was entirely in gneiss. Another hole was drilled, with the field examiners present, for 3½ ft entirely in gneiss, into the end of the crosscut.

The field examiners recommended further exploration in the N. 25° E. direction until another visit can be made.

Inspected: February 9, 1956

Wm. A. Beck, Mining Engineer
Bureau of Mines

and

A. R. Taylor, Geologist
Geological Survey

g

DOCKET COPY
Surname: Anderson

Houk
Talbot
Dwyer
"Appd. Sol. Off."
Kilsgaard
Guhler
Martin

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

FEB - 6 1956

Mr. Edwin Herbert Schwab
P. O. Box No. 55
Yatesville, Georgia

Re: Docket No. DMEA-3945-Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia
Contract No. Idm-E886

Dear Mr. Schwab:

The Executive Officer, DMEA Field Team, Region V, has forwarded to this office a copy of an assignment of your lease on the subject land and all of your interest in DMEA Contract No. Idm-E886 (Docket No. DMEA-3945) to S. L. Phillips, J. R. Beam and John Phillips.

This is to advise you that unless the written consent of the Government to the assignment is obtained, such action constitutes a breach of contract, for Article 1 of the contract states that the contract cannot be transferred or assigned without the written consent of the Government, and Article 2 requires you to preserve and maintain your right title and interest in the land for the purpose of the contract.

You may make a written request through the Executive Officer, Region V, to this office to have the lease and contract assigned to another party. Your request must be accompanied by (1) a statement of your reasons for wishing to make the transfer, and (2) a statement from the assignees, Messrs. S. L. Phillips, J. R. Beam and John Phillips, as to their qualifications and willingness to accept the terms of the contract and any amendments thereto. During the time your request is being processed, no vouchers for work completed will be honored. If an assignment of the contract is approved, your liability under its terms continues. Please execute and return the enclosed Consent to Lien.

We will hold your notarized assignment, dated October 31, 1955, until you have submitted the papers mentioned above. Should your request be approved, copies of the approved assignment will be transmitted to you.

Sincerely yours,

C. O. Mitzenberg

Administrator

Enclosure

WCAnderson:ms 2/1/56
Copy to: S. L. Phillips et al.
Spruce Pine, North Carolina

Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kilsgaard, 5222
Mr. Dietrich, 3061
Field Team, Region V
Mr. Dwyer
Mr. Chambers
Mr. Houk
Mr. Anderson

RECEIVED
JAN 30 1956

INTERIM REPORT

DMEA-3945, Idm-E886, DUKE MINE (mica)

Operator: Edwin H. Schwab, P.O. Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville, Upson County, Georgia

This project was visited on January 26, 1956. The shaft has been completed to a depth of 50 ft with a 5 ft covered sump. Because of pump failure the Operator's crew has worked only 3 3/4 days since January 11.

A crosscut, in pegmatite, has been driven a distance of 5 ft to the west. While the examiners were present, the crew drilled 4 ft into the heading. The 4 ft drilled proved to be in pegmatite, giving a minimum thickness of 9 ft. No mica of strategic quality exists at the shaft bottom on the footwall of the pegmatite, nor was any seen in the crosscut.

The field examiners directed that the crosscut be continued to the hanging wall to the west.

Inspected: January 26, 1956

V. J. Lynch, Mining Engineer
Bureau of Mines

and

Alfred R. Taylor
A. R. Taylor, Geologist
Geological Survey

Z

O.C.L.

out of pegmatite

INTERIM REPORT

RECEIVED
JAN 16 1956

DMEA-3945, Idm-E886, DUKE MINE (mica)

Operator: Edwin H. Schwab, Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville, Upson County, Georgia

This project was visited January 11, 1956. The shaft was down to a depth of 44 feet and was timbered and lagged to 38 feet. At 25 feet it went through an old drift which extended about 100 feet to the north. At 42 feet migmatite (mixed country rock and pegmatite) comes in across the shaft. The shaft has been entirely in pegmatite to this point. About 450 pounds of mine run mica has been recovered from the shaft sinking. The greatest portion of this has been from the first 20 feet.

The Operator was instructed to continue the shaft to the 50 feet depth set up in the contract, allow about 5 feet for a sump and crosscut to the west to try to pick up the hanging wall of the pegmatite body.

Inspected: January 11, 1956.

Wm. A. Beck, Mining Engineer
Bureau of Mines

and

A. R. Taylor, Geologist
Geological Survey.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1015 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

January 5, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-3945, Idm-E886 (mica) E. H. Schwab, Duke Mine, Upson County, Georgia

RECEIVED JAN 9 1956

Enclosed is an assignment of the Duke Mine from E. H. Schwab to S.L. Phillips, J. R. Beam and John Phillips. The new owners are competent mica operators and are, in fact, now conducting the work at the Duke Mine, We request that the contract be assigned to them and that the usual assignment, acceptance and consent forms be prepared and sent to us for transmittal to the Operator.

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

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

RECEIVED
DEC 27 1955

INTERIM REPORT

DMEA-3945, Idm-E886, DUKE MINE (Mica)

Operator: Edwin H. Schwab, Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville, Upson County, Georgia

This project was visited on December 20, 1955. The crew had already gone home for the day when the examiners arrived. The shaft was measured and found to be 28 feet deep with 3 feet of water in the bottom. From the appearance of the dump material they are still in pegmatite. The shaft was timbered all the way to the bottom and there was a partition between the hoisting and ladder compartments. This project is being carried on in an efficient manner.

December 20, 1955

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

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

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RECEIVED
DEC 12 1955

INTERIM REPORT

DMEA-3945, Idm-E886, DUKE MINE (mica)

Operator : Edwin H. Schawb, Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville
Upson County, Georgia

This project was visited December 7, 1955. Shaft sinking is in progress at the location stipulated by the field examiners during their visit on November 8. The shaft was started in weathered pegmatite which still exists the full width of the shaft. About 200 pounds of run-of-mine mica has been recovered from the 12 feet of shaft sunk to date. The mica is of excellent quality being ruby and hard, free splitting and flat.

December 7, 1955

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

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

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

RECEIVED
NOV 16 1955

November 14, 1955

Mr. Edwin H. Schaub

P.O. Box 55

Yatesville, Georgia

Re: DMEA-DMEA-3945, Idm-E886
Duke Mine (mica)
Upson County, Ga.

Dear Mr. Schaub:

This will confirm the verbal permission given you to start work on Stage II of the subject contract.

Very truly yours,

Robert A. Laurence
Executive Officer, DMEA
Region V

WAR/sm
Cpr. Com.-3
Lynch
Rock
Files

RECEIVED
NOV 16 1955

INTERIM REPORT

DMEA-3945, Idn-E886 (mica) DUKE MINE

Operator: Edwin H. Schaub, Box 55, Yatesville, Georgia

Location: On the Waymansville Road, seven miles southwest of Yatesville, Upson County, Georgia

This project was visited November 8, 1955. Stage I of the contract had been completed. The Operator was advised where to start sinking the shaft and to follow the pegmatite down with an incline. At this point the pegmatite is about 8 feet in thickness and dips about 45 degrees to west and plunging slightly southwest. where ?

Approximately 1500 pounds of excellent mica has been produced by the bulldozing.

November 8, 1955.

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

and

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

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RECEIVED
NOV - 2 1955

INTERIM REPORT

DMEA-3945, Idm-E886 (mica) DUKE MINE

OPERATOR: Edwin H. Schwab, P. O. Box 55, Yatesville, Georgia

LOCATION: On the Waymanville Road, 7 miles southwest of Yatesville, Upson Co., Georgia

The project began work on October 26, 1955. Stage I of the contract is underway, and about 12 hours of trenching had been completed at the time of this visit. A trench trending N-S had been excavated by a D-7 bulldozer, equipped with back-hoe teeth, which was 150 feet long, 16 feet wide, and 4 to 6 feet deep. A pegmatite striking northeast and dipping southeast was exposed on the extreme south end of the cut, but was badly weathered. The operator was advised to extend the trench further to the south and deepen the cut in the vicinity of the pegmatite. About 150 pounds of mica, most of which contained clay stain, was recovered from this body. About 125 feet north of this body, another pegmatite was exposed briefly, while the examiners were present. About 50 pounds of excellent mica in blocks up to 6 x 8 inches had been recovered. Additional trenching will better expose this body, and the operator was advised to continue work also on this end of the trench.

The operator was instructed not to begin Stage II of the contract until another inspection of the completed work can be made.

L. E. Shirley

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

A R Taylor

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

October 27, 1955

Docket Copy
Surname:
Anderson
Selfridge
Johnson

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

600

OCT 6 - 1955

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

Subject: Docket No. DMEA-3945 - Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia

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 Administrator for the Government with effective date as shown.

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

After execution of the contract, the copies are to be distributed in the usual manner. Copies of memoranda from Mr. N. E. Nelson dated September 19, and Mr. W. F. Dietrich dated September 23, 1955, both Members of the Mica Commodity Committee are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

Approved:

/s/ Robert W. Geehan (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

Enclosures 10

WCAnderson:gad 9/27/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson

EXPLORATION PROJECT CONTRACT
EDWIN HERBERT SCHWAB
DOCKET NO. DMEA-3945

EXHIBIT "A"

Description of the Work

Exploration for concentrations of strategic mica shall be accomplished in the area indicated on the map entitled "Figure 123.--Map of the Duke Mine, Upson County, Ga.," attached hereto and made a part hereof, as follows:

The work is divided into two stages as indicated below. The Operator shall perform Stage I, and shall perform as much of Stage II as the Government approves in writing.

Stage I

With a model D-7 caterpillar tractor w/dozer or equivalent unit, cut a trench along the strike of the pegmatite ~~having minimum dimensions of~~ approximately 325 feet long by 20 feet wide by 4 feet deep.

Stage II

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 $2\frac{1}{2}$ feet.

   (c) An exploder storage magazine, minimum dimensions 2 feet by $1\frac{1}{2}$ 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. Sink on the pegmatite not more than 50 feet of a 2-compartment, inclined shaft.

3. Explore the pegmatite by driving from the shaft (item 2) not more than 80 feet of drifts and/or crosscuts.

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

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

FIXED UNIT COSTS

Bulldozing trench - 30 hours @ $12.00/hr.	$ 360.00
Constructing - Toolhouse 1/	76.00
Powder magazine 1/	25.00
Exploder magazine 1/	13.00
Sinking 50 feet of inclined shaft @ $45.00/ft.	2,250.00
Driving 80 feet of drifts and/or crosscuts @ $35.00 ft.	2,800.00
Estimated total cost of project	$5,524.00
Government participation @ 75%	4,143.00

1/ The completed work constitutes the unit.

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

September 23, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3945 (mica)

Applicant: E. H. Schwab

Name and Location of Property: Duke Mine, Upson Co., Ga.

Date of Field Team Report: 9/8/55

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 9/16/55

Field Team Recommendation: Recommend a 2-stage exploration project at a cost of $5,523.00.

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

Recommendation: I concur with the recommendation of the field team for a 2-stage exploration program.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

RECEIVED
SEP 2 1 1955

September 19, 1955

Re: DMEA 3945
Edwin H. Schwab
Duke Mine
Upson Co., Georgia
$5,523.00 - Mica

Memorandum

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

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

Subject: Review of Field Team Report.

The staged exploration work proposed for this prospect should, if done, afford a good look at the outcrop and, if warranted, underground work.

I concur with the acceptance recommendation of the Field Team.

N. E. Nelson

N. E. Nelson

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

RECEIVED
SEP 12 1955

September 9, 1955

Memorandum

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

From: DMEA Field Team, Region V

Subject: Field Examination Report - DMEA-3945 (Mica)
Edwin H. Schwab, P. O. Box 55, Yatesville, Georgia
Duke Mine, Upson County, Georgia

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

We agree with the examiners' conclusions and recommend approval of a contract as outlined in the report.

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

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

Enclosures 13

Reviewed by
DMEA OPERATING COMMITTEE
9-16-55
(date)

RECEIVED
SEP 12 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXAMINATION REPORT BY FIELD TEAM, REGION V

On

DMEA-3945, DUKE MINE (Mica)

Upson County, Georgia

By

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

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

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

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

September 8, 1955

Reviewed by
DMEA OPERATING COMMITTEE
9-16-55
(date)

FIELD EXAMINATION REPORT

RECEIVED
SEP 12 1955

DMEA-3945 (mica) DUKE MINE

Applicant: Edwin H. Schwab, P. O. Box 55, Yatesville, Georgia

Mica of strategic grade has recently been discovered at this mine by the applicant. It is recommended that exploration assistance be granted - the work to be staged.

The Duke mine is on the Waymansville Road - 7 miles southwest of Yatesville, Upson County, Georgia and is on Lots no. 1 and 50 of the 16th Land District of the county.

The deposit was examined on September 1, 1955. Mr. Edwin H. Schwab accompanied the examiners on the inspection which required two hours. The applicant owns the mineral and mining rights to 100 acres on which the mine is located. The nearest property line to any proposed work is about 300 feet.

Access to within 400 feet of the mine is by an all-weather county road; the remaining distance is by a mine road. No surface facilities are present on the property. Water is readily available and a power line crosses the property. Most mining equipment and supplies can be obtained locally.

The applicant has had only limited mica mining experience but has had considerable coal mining experience. He appears to be competent to conduct the proposed work.

The mine was discovered in 1916. During World War II several operators conducted operations at the mine, most of an exploratory nature. Total past production has probably been worth about $5000. The applicant has recently recovered about $900 worth of mica from two trenches and a small pit (see attached map).

The pegmatite is an irregular body whose contacts strike N. 0-20° E. and dip 60 - 70° west. Several branches or parallel bodies appear to be present. The main pegmatite is reported to be 2 - 15 feet thick and is essentially conformable to the enclosing biotite gneiss. In the southwest trench it is 5 feet thick and consists of kaolinized feldspar, quartz, muscovite and biotite. No zoning is apparent but scattered mica concentrations are reported.

The mica is ruby-colored, hard, flat and clear. The chief defects are cracks and clay-stain. In general, the mica is of excellent quality.

It is recommended that a staged exploration program be conducted. A trench 325' x 20' x 4' deep should be bulldozed along the strike of the pegmatite to determine the thickness and mineral composition of the body.

If this reveals promising concentrations of strategic mica, then sink a 50-foot incline on the pegmatite and drive 80 feet of drifts. Estimated costs are as follows:

Stage I - Bulldoze with D-7 or equivalent dozer a trench 325' x 20' x 4' deep along the strike of the pegmatite. 30 hrs. @ $12/hr.		$360.00
Stage II - Construct -		
Toolhouse	$75.00	
Powder Magazine	25.00	
Exploder "	13.00	113.00
Sink 50-foot, two-compartment incline 5' x 7' in cross section (30 shifts)		
Labor: 1 - Miner @ $1.50/hr.	$360.00	
1 - Hoistman @ $1.25/hr.	300.00	
1 - Laborer @ $1.00/hr.	240.00	
Supplies: Timber, 5000 b.f. @ $65/M	325.00	
Gas and oil	125.00	
Explosives	100.00	
Small tools	50.00	
Drill steel	50.00	
Pipe, nails and wire	50.00	
Equipment (rental):		
Compressor, drill @ $240/Mo.	300.00	
Hoist @ $50/Mo.	62.50	
Pump @ $20/Mo.	25.00	
Insurance	90.00	
Social Security	18.00	
Sales tax	21.00	
Miscellaneous	133.50	$2,250.00
Drive 80 feet of drifts 5' x 7' in cross-section (30 shifts)		
Labor: 1 - Miner @ $1.50/hr.	360.00	
1 - Hoistman @ $1.25/hr.	300.00	
2 - Laborers @ $1.00/hr.	480.00	
Supplies: Gas and oil	150.00	
Explosives	250.00	
Small tools	50.00	
Drill steel	100.00	
Pipe and wire	50.00	
Timber, 3000 b.f. @ $65/M	195.00	

Equipment (rental):		
Compressor, drill and jackleg @ $250/mo.	$312.50	
Hoist @ $50/Mo.	62.50	
Pump @ $20/Mo.	25.00	
Insurance	114.00	
Social Security	23.00	
Sales Tax	24.00	
Miscellaneous	304.00	$2,800.00
Total estimated cost of Stage II		$5,163.00
Total estimated cost of Stages I and II		$5,523.00

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

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

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

and

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

September 8, 1955

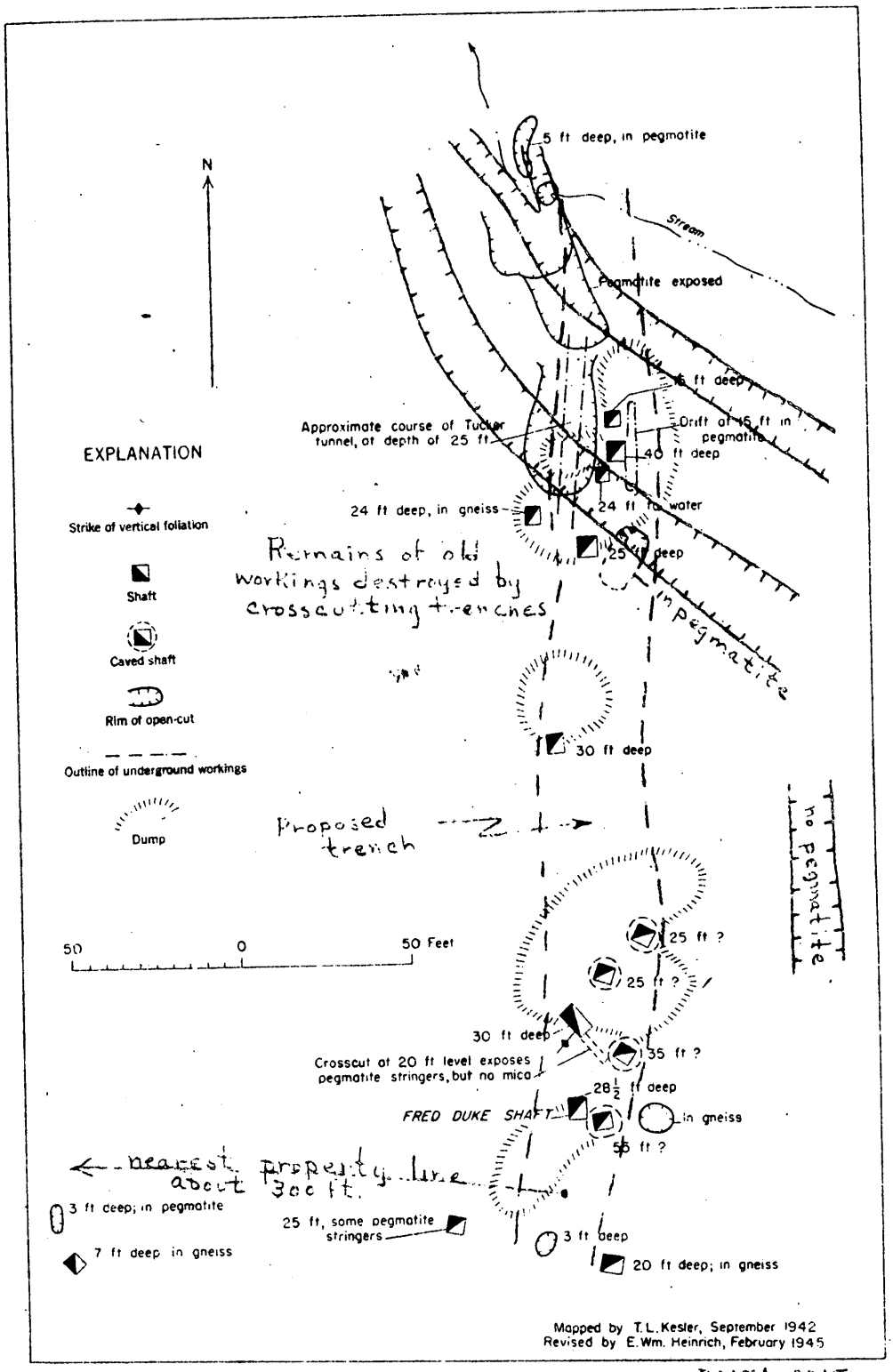


FIGURE 123.—Map of the Duke mine, Upson County, Ga. DMEA-3945 Sept. 2, 1955

Docket Copy
Surname:
Anderson
Selfridge

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

600

AUG 24 1955

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

Subject: Docket No. DMEA-3945 - Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia

Dear Mr. Laurence:

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

Copies of memoranda from Mr. W. F. Dietrich, dated August 15, 1955, and Mr. N. E. Nelson, dated August 16, 1955, Members of the Mica Commodity Committee, are enclosed.

If your office recommends an exploration program approved by the applicant, please furnish the necessary information to draft a contract. In this connection we will require nine copies of a map showing the proposed work and pegmatite exposures in relation to the property lines.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (HB)

Approved:

/s/ Robert W. Geehan (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

Enclosures 4

WCAnderson:gad 8/22/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5222
Mr. Houk
Mr. Anderson

Docket Copy
Surname:
Anderson
J. Kuonce
Geehon
Kilsgaard
Selfridge

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

600

AUG 24 1955

Mr. Edwin Herbert Schwab
P. O. Box 55
Yatesville, Georgia

Re: Docket No. DMEA-3945 - Mica
Edwin Herbert Schwab
Duke Mine
Upson County, Georgia

Dear Mr. Schwab:

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:gad 8/22/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Operating Committee
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5222
Mr. Houk
Mr. Anderson

IN REPLY REFER TO:

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

August 16, 1955

Re: DMEA 3945
Edwin H. Schwab
Duke Mine
Upson Co., Georgia
$3,510 - Mica

Memorandum

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

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

Subject: Review of Application.

The description of the Duke mine in Mica Deposits of the Southeastern Piedmont, Part 10, does not support this application, as for the Duke mine, but would appear to answer the "$2,000 or $40,000" question. The fourteen shafts and several pits indicate an irregular pegmatite and scattered mica concentrations as reported in the professional paper.

If, as the applicant claims, another pegmatite has been uncovered and over $900.00 worth of mica has been taken from a small trench, the relatively modest 2-stage work program may be justified.

Appraisal of the new discovery is indicated and here recommended.

N. E. Nelson

N. E. Nelson

RECEIVED
AUG 17 1955

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

August 15, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 3945 (mica)

Applicant: E. H. Schwab

Name and Location of Property: Duke Mine, Upson County, Georgia

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 8/10/55

Comments:

1. From applicant's description, it is questionable if exploration is justified as the mine has produced good quality mica in the past and no evidence has been given to suppose the mine is worked out. It appears that the recommended work is development rather than exploration.

Recommendation:

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

W. F. Dietrich

W. F. Dietrich

RECEIVED
AUG 16 1955

Dozer Cut 20ft-wide - 12ft. deep.

cross cut ↑ 8x6x16 -

Fred Duke in Dozer Pit # 2 = 16ft-wide -

East

August 10, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region V

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region V.

DMEA-3945 Edwin Herbert Schwab

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

August 10, 1955
Subject: DMEA-3945
Re: Exploration Assistance
Duke Mine

Mr. Edwin Herbert Schwab
Box 55
Yatesville, Georgia

Dear Mr. Schwab:

The receipt of your application dated August, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3945 and referred to the Nonmetallic Minerals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG - 9 1955

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

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

Not to be filled in by applicant

Docket No. 3945
Metal or Mineral Mica
Date Received 8.9.55
Estimated Cost $ 3,510
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Edwin Herbert Schwab.
P.O. Box -#-55- Yatesville, Georgia.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract 100 acres more or less, Upson County, Georgia. Part of lots #1 & 50 in 16th. land District, Said County & parts of lot #323 in 1st. District said County -Bounded On N. by Tobler Creek-E. by T.J. Mitchell South by Waymansville Road, West by Tobler Creek. Recorded D.B. # 85-Page 78 Upson

(*b*) State any mine name by which the property is known. Duke Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
Owner of Mining and mineral rights.

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

(*e*) If you own the land, describe any liens or encumbrances on it

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

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

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

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

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

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

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

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

(*c*) The work will start within 10 days and be completed within ~~10~~ 2 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. Operator coal mines 21 yr.

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

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

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

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

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

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

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

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

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

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

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

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

[ ] Money [ ] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated August, 1955

Edwin Herbert Schwab.
(Applicant)

By

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

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

COPY of

Geological Survey--Bulletin # 48--

Georgia State Div. of Conservation--Mica Bearing Deposits of Georgia.

By A.S.Furcorn and Kefton H. Teague-

1943.--

RECEIVED
AUG - 9 1955

Duke Mine--Upson County,Georgia. Page # 35-

This mine is located 7 milew (air line) and 8 miles by road S.60 o East of Thomaston via the Waymansville Road.The mine is 0.5 miles N.50o E. of the bridge across Tobler Creek on a flat ridge about 300 ft. nirth of the road on the N.E. outskirts of Waymansville.It is owned by F.H.Duke,Route #2,Thomaston. The mine is 3/8 miles North East of his House.

The minexwas opened by R.L.Duke.Mica was mined here in 1917-18 and again in 1926 -27.Clarence E.Tucker of New Hampshire operated ythe mine after Mr. Duke.The history of production is not known,although $2000.00 worth of exelent sheet mica is said to have been removed.A small of random prospecting was done here in 1942

An inspection of the works reveals (figure 17-page 29) a series of shafts up to 45 feet in depth .Pegmatite was exposed in shafts # 2 & 4.Judging from the alignment of the other shafts the pegmatite strikes from the due North to N.10o East,it is reported to dip,to the South East.

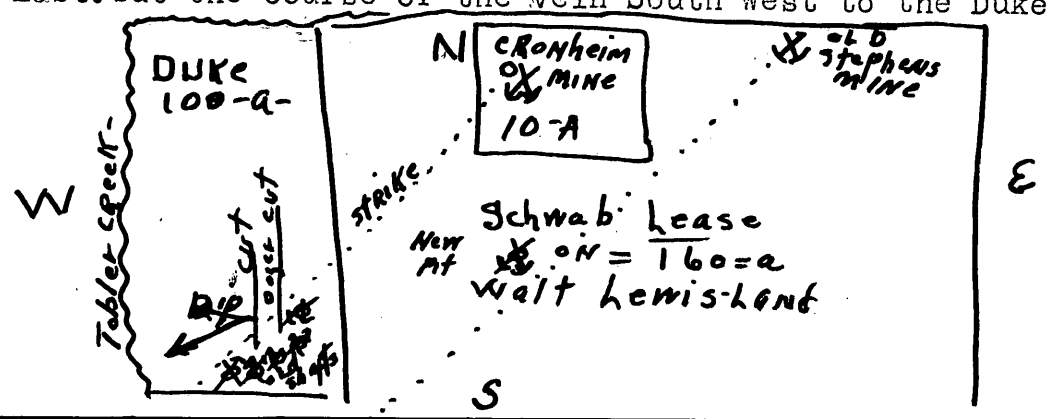
The mi ing operation xxxxxxxx extended over a distance of 350 feet.Most of the pits are now fallen in.Accord ing to the reports the miners drifted along xx the dike from the bottom of the shafts.The pegmatite is exposed in the bottom of shaft # 6.It is coarse grained consisting of coarse ,cleavable microcline mica and smoky quartz.Most of the mica seems to be near the hanging wall. The pegmatite is kaolanized to the bottom of the works.Kaolinized feldspar,quartz and small books of muscovite and biotite compose the dumps. The biotite is partly altered to vermiculite.Occassional muscovite books contain the usual marginal quartz inclusions,inclusions of small books of biotite etc. It is probable that the best books of mica are not equally distributed in the direction of the strike in the pegmatite.

The mica here has a deep run color,is flat and hard and splits well. Mr F.H. Duke recently removed about 50 # of block mica from shaft # 6.

It is not likely that mining operations extended much below water level at this locality and since GOOD mics is known to have come from here,the mine DESERVES ADDITIONAL INVESTIGATION.

---- August 1,1955--

NOTE***by Ed H.Schwab--Present owner of the mining & mineral rights-Duke Mine-By the use of a D 7 Dozer in cross cuting the mica vein to a depth of 10 ft. thereby exposing the mica,pegmatite,hanging wall,strike and pitch we find the dip is definately to the South West(hte above report shows South East).However it is possible we opened the dozer pit on the crest of a fault line.If this is correct proof is made why we located a good vein of large,clear run mica,West of all other test pits and shafts on the property.Due to the fact that we dozed a pit on the adjoining land,North of the Duke mine old shafts and found the dip South East.but the course of the vein South West to the Duke shafts



All of the one hundred acres ~~xxxxxxxxxx~~ of land, lying and being in Upson County Ga. and being parts of the lots # I & 50 in the Ioth land district of said county, said tract of land being bounded as follows: on the North by Tobler Creek, on the East by the land of T.J.Mitchell, on the South by Waymansville Road and on the West by Tobler Creek. This is the Identical real estate conveyed to F.H.Duke by deed of Mrs. Judie P.Duke etal dated April, II, I938 and recorded in deed Book # 85 Page 78 in the Clerk's Office Suoerior Court, Upson County, Georgia.

(b)--Duke Mine

(c)-Owner of mining and mineral rights.

(D)-- Mijneral Deed--------

State of Georgia, County of Upson-

This indenture made and entered into this the second (2nd) day of July, I955 by and between Fred Hill Duke and Nellie Duke of Upson County Georgia, Parties of the First Part, and E.H.Schwab of Hillsbiro County, Florida, Party of the Second Part. Witnesseth:

That the said Parties of the First Part for and in consideration of the sum of Five Hundred and No/IOO ($500.00) dollars cash in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, have bargained, sold, aleined and conveyed, and by these presents do bargain, sell alein and convey unto the Said Party of the Second Part, his heirs, and assigns, all of the following described property, rights and privileges;

All of the mineral rights including mica rights, being on that certain tract of land in Upson County Georgia described as follows:

All of IOO acres, more or less of land lying and being in Upson County Georgia and being parts of lots # I & 50, in the Ioth Land District of said county, and part of lot # 323, in the Ist land district of Said County, said tract being bounded as follows: North by Tobler Creek; East by the lands of T.J.Mitchell; South by the Public Road and West by Tobler Creek. This is the Identical land conveyed to F.H.Duke by deed if Mrs. Judie P. Duke etal dated April, II, I938 and recorded in Deed Book # 85 and Page 78 in Clerk's Office, Superior Court, Upson County, Georgia.

Together with the right and privilege to explore, dig, strip, mine, produce and remove and sell any and all minerals which may be in, under, upon or across said land, togrther with the right of ingress and egress at any and all times with exploration or mining equipmentand Party of the Second Part, his agent, heirs, legal represenatives or assigns, shall have said rights, together with the rights of ways for roads, ditches, shafts, pits, ponds, plants, buildings, telephone & power lines, in, ~~xxxxxxxxxxxxxx~~ upon, under and across said land, which may be required or deemed necessary by Second Party, his heirs, excepting however any land whereon any buikdings are now situate or now in use.

The said Party of the Second Part, his heirs or assigns shall have the same for the term of five(5) years from the 2nd. day of July I955 in which to mine said property and to exercise all of the privileged herein granted.

Parties of the First Part reserve however all mineral rights to the land lying on the North side of said road about 400 feet and extending back Northernly 75 ft. from the residence of Parties of the First Part to the Gap leading to the pasture and no rights in reference to this strip of land are conveyed under the terms hereof.

Parties of the Fir t Part shall not be held responsible for any accident or injury to property, person or persons by reason of Party of the Second Part's

mining operations and Party of the Second Part shall have the right to forbid any person or persons ,including parties of the First Part,from coming on to said land in or around his mining operations ,and Party of the Second Part shall not be responsible for injury or accident to property, person or persons,excepting his employees by reason of his mining operations.

This indenture cancells any previous agreements or contra cts made or entered into by and between the parties hereto.

All terms hereof shall be binding upon and shall enure to the benefit of the respective assigns ,legal represenatives and heirs of the parties hereto.

To have and to hold the said bargained minerals and privileges together with all and singular rights,members and appurte nances thereof to the same being and belonging or in other wise appetaining to,the only proper use, benefit of the Party of the Second Party,his heirs,assigns,and legal representatives in fee simple.

And the said Parties of the First Part,their heirs and legal represenative the said bargained and minerals and privileges unto the Second Party,his heirs legal represenatives and assigns against the said Parties of the First Part their heirs and legal represenatives and all and every other person or persons shall and will warrant and defend forever by virtue of these presents.

In witness whereof the said Parties have hereto set their hands and affixed their seals the day and year first above written.

Fred Hill Duke---Nellie Duke.

Betty H.Huckaby--Notary Public.

(4)--Several shafts were dug,from 20 to 60 feet in depth and short drifts,4 to8 ft.in width to 50 ft. in length from some of the deeper shafts,mica was produced from all shafts ,and Fred Duke states that a total of approx. $40,000.00 worth of mica was sold from the property to consumers and the Gov.(the Ga. State Bulletin shows $2000.00) however all mica probably is not reported

The report shows the dip was S.E which possibly was correct from the old shafts,as the old drifts were driven North East and there is a fault extending from the Persons Mine (Stephens) across the Mitchell (Lewis) land through the Dukes land we located and proved with the dozer and found the dip of the mica S.W. on the mica vein traced from the Cronheim(MITCHELL CREEK) mine to the lower vein I located on the Duke land West of the old shafts on the Duke land.The vein is surfaced West of most of the old shafts and dips 65o S.W. no drifting was done S.W.

Present work has been done by the writer Ed H. Schwab by the use of a D 7 Dozer to locate the mica vein and pegmatite,course & dip and thereby recovered and sold to the Gov. Depot @ Spruce Pine N.C. $448.00 worth of mica & have dug in in a cross cut (i n dozer pit) approx. another $500.00 worth of flat,clear,ruby mica,the cross cut is approx. 5 x 4 x I6 feet in length.

Present interest-Owner, & operator of prospecting,marketing preperation & sales.

Current production -NILL-as it is now necessary to either sink the adjacent old # 6 shaftdeeper (which is dry and in perfect condition) and drift out to

he vein which is dipin S.W.(the old shaft had a row drift N.E.--or- sink new shaft West of the previous workings and mine deeper into the heavy gray quartz and possibly water(wherein I have located and produced the ruby mica with books weighing up to 7 pounds and measure up to 3 x 5 x 8 in.

Access ability to present workings -Property located within sight of public road,truck road to the old pits and new dozer pits;dozer pit 20 feet in width and cross cut in pit I6 feet long with prospect pit in cross cut 6 x6 xI5 ft. deep in the cross cut exposing the mica vein all the way across aand a small drift approx. 8 ft. x 4 ft. in width on the mica vein S.W. ---six old shafts all dry and in good condition,ope n to bottom all shafts N.E. of dozer pits, mica vein exposed on slope of hill in dozer pit West of old shafts.

(b)-Past production -Report shows production of $2000.00(Duke states $40,000.00) recent production by use of dozer $448.00 & $500.00 worth ready for triming.

(c)-Vein deposit N.E. course 38o-dip approx.65o in pebble quartz and kaolinized feldspar,this pegmatite 4 to 6 ft. in width between mica schist and grey quartz with the larger books near or in the schist;due to the dip of the vein it will necessary to sink a shaft either through the vein to a depth of 60 ft. or more or West of the vein and drift back to the pegmatite and vein. N.E.

(d)- On Waymansville Road,8 miles S.E of Thomaston,Upson County Georgia & C of G.R.R.--7 miles south of Yatesville,Ga. on gravel road,power line on the property on Tobler Creek;available NON union labor experienced in mica mining;rental equipment available.

(5)- Mica-

Plan to use either3/4 yard drag line or D 7 Dozer to begin approx. 200 ft. due West and down grade from old shaft # 6,thereby stripping up grade on the dip of mica vein towards the old shaft,therby having downgrade cast for overburden and natural pit drainage and dry drifting,upgrade to the old shafts, as well as N.E & S.W drifting along the Strike.The strip pit will be N.E.& S.W. along the strike toward the Cronheim Mine N.E. and drifting N.E. toward the old shafts.

(c)--Work to start within IO days and complete 60 days.

(d) Owner and operator of coal mines 2I years-Io years underground-5 yrs. open strip pits using drag lines,shovels,dozers,pumps,drills,graders etc. in Hopkins,County,Western Ky.

(6)-D 7 Dozer-----60 hours--@ $I2.50 per hour*	$750.00
OR--	
3/4 yd.drag line 60 hrs. @ I5.00 per hour	900.00
Common labor IO80 hrs. @ avg. of $I.25 per hr.	I350.00
Explosives--Gas for hoist,pump etc.	I50.00
Supply shack-lumber,roofing,nails etc.	I90.00
Lumber & material for shaft (if sunk)	200.00
Rental of pump,hoist,compressor,air hammer,hose etc.	450.00
Electric power connection	270.00
Total	$35IO.00

(7)- Yes

(B)-Labor & use of borrowed equipment
Or- Lien on Mining & mineral rights.

E-

Yatesville

Schwab Lease
= ON =
Walt Lewis - 160-a -

Mining & Minerals owned by Schwab

Duke - 100-acre tract -

old shafts

Dozer Pit
Mica

Dozer Pit
Mica

old shaft

Located Flat Ruby
clear Mica -
Books up To 6x10 -
New Dozer
Mica
cut By Schwab

Fay's Line

Old -
Persons
MINE

Located July 28-55
Books - 20#
Flat Ruby - Mica -

a Rich vein

old
Cronheim
Mine
10-acres

Mica
N

ASSIGNMENT

E. H. SCHWAB

TO

S. L. PHILLIPS, ET AL.

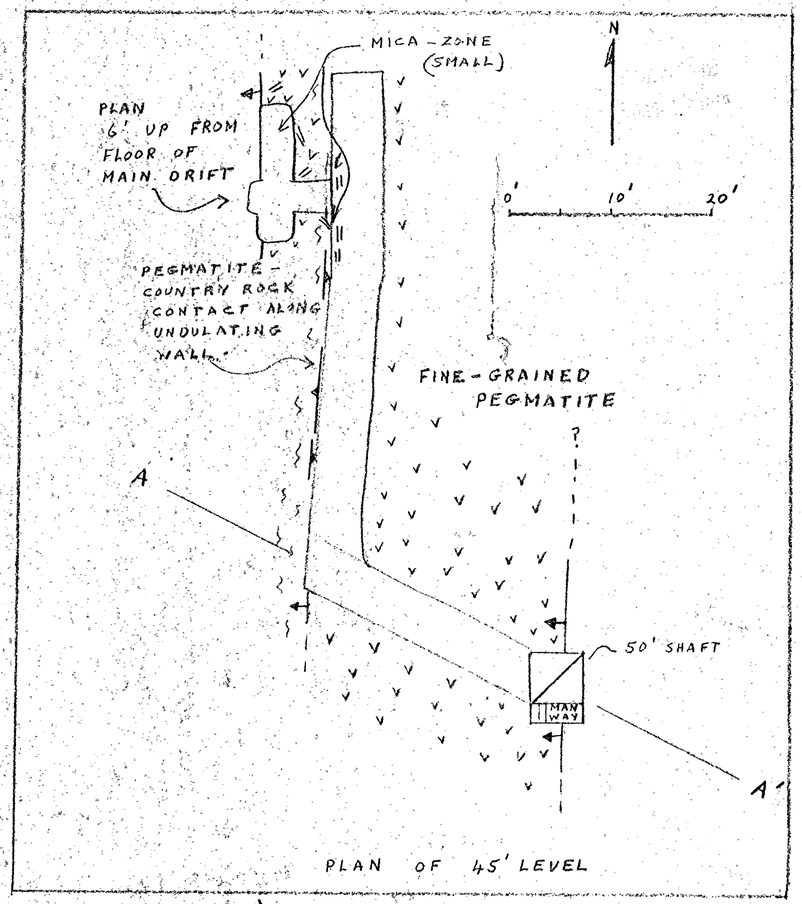
Fouts & Watson
Attorneys at Law
Spruce Pine, North Carolina

DUKE MINE

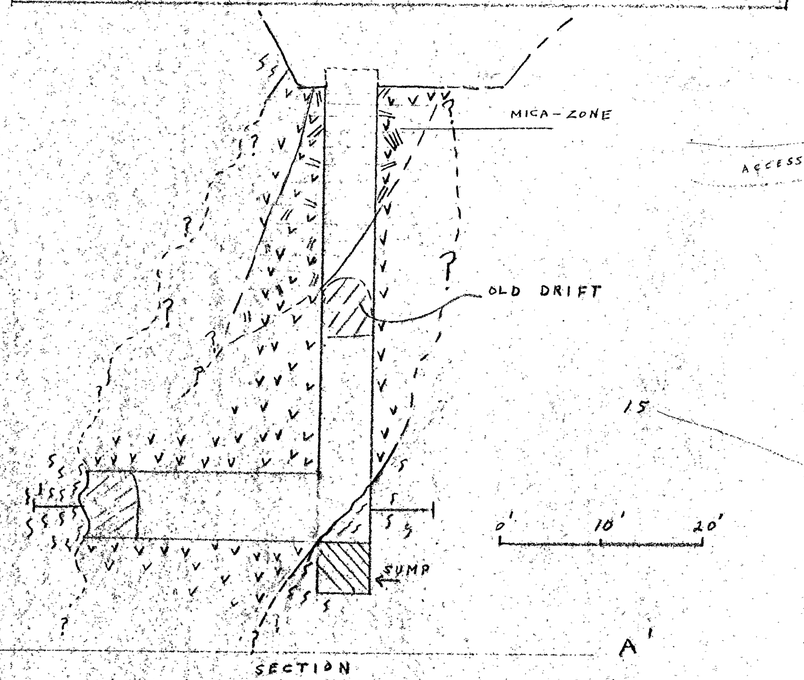
DMEA - 3945 (MICA)

UPSON CO., GA.

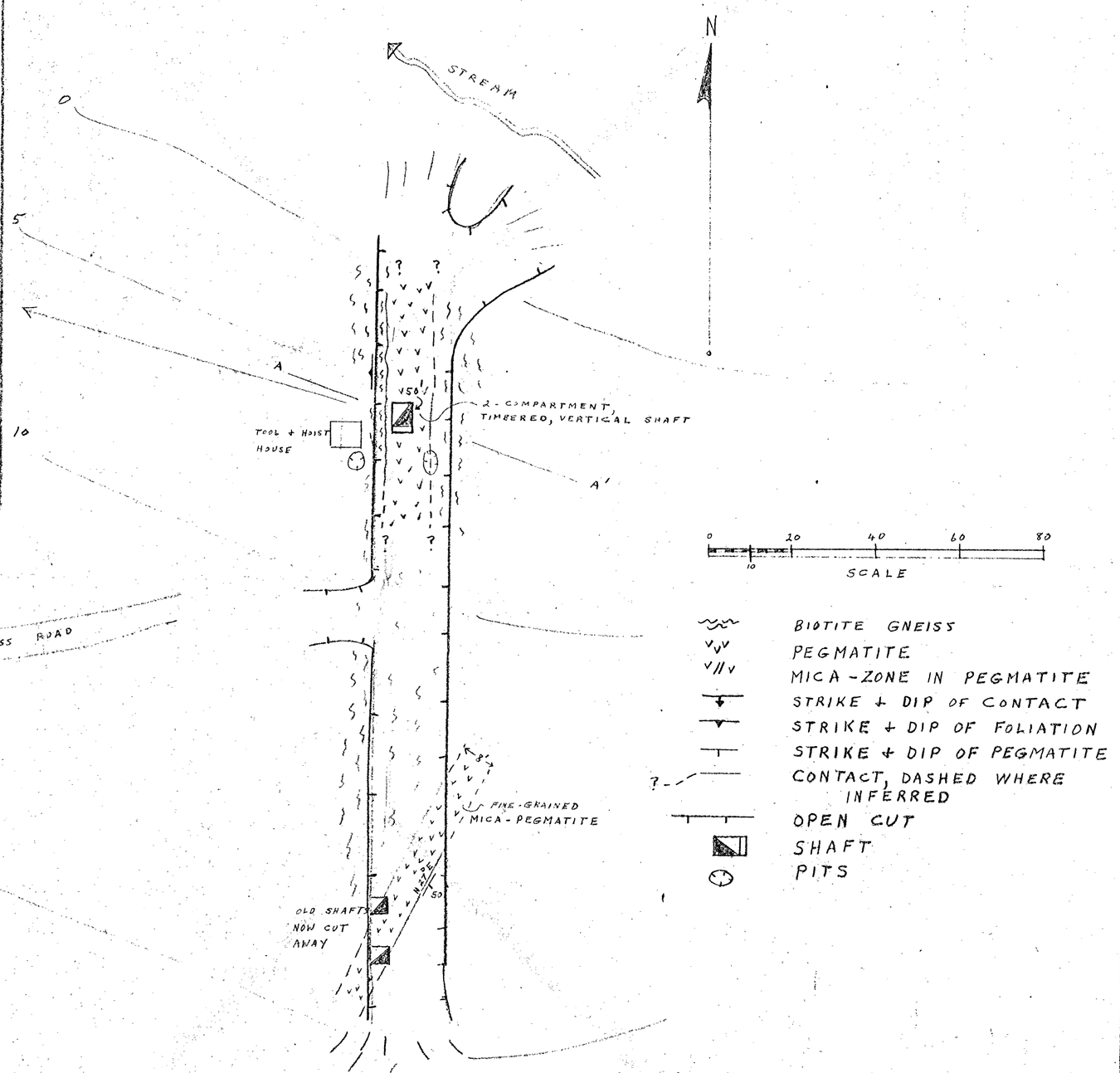
4 - 6 - 56



PLAN OF 45' LEVEL



SECTION



FINAL REPORT : 4-6-56 TAYLOR, A.R.