DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO. _____ DMEA NO. 4864

Application
- [x] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

75%

Left Side

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

Right Side

- [ ] Project summary (final)
- [ ] Work Completed analysis (final)

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

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

Additional Folders:

Left Side

Folders No. _____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

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

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty material

17963

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 48 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

October 30, 1957

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region V

Subject: DMEA application - C. D. Taylor, Newland, N.C.
Champion Mine, Amelia County, Virginia

Attached are 3 copies of an application, a copy of the Mining Lease, a map showing the location of the property and three copies of Mr. Warren H. Pritchard's transmittal letter.

Please refer to our letter of January 22, 1957 to Mr. Taylor, a copy of which was sent to you.

W. C. Lynch

LAW OFFICES OF
WARREN H. PRITCHARD
SPRUCE PINE, NORTH CAROLINA
TELEPHONE POPLAR 5-4156

October 28, 1957.

OFFICIAL FILE
DMEA
RECEIVED NOV 1 1957
DATE | INITIALS | CODE

Defense Minerals Exploration Administration
U. S. Department of the Interior
Post Office Building
Knoxville, Tennessee

Re: DMEA Application by C. D. Taylor

Gentlemen:

Enclosed herewith is application for loan by Mr. C. D. Taylor of Newland, North Carolina.

The matter was taken up with Congressman Jonas and he was advised that the consent to lien forms did not have to be signed prior to the inspection and thus these forms are not included.

We feel that the description of the property should be adequate in view of the extremely large area included.

Please give the matter your immediate attention.

Very truly yours,

Warren H. Pritchard

Warren H. Pritchard

RECEIVED
OCT 30 1957
U. S. Geological Survey
Geologic Division
Washington, D.C.

Form MF-103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

DEFENSE MINERALS EXPLORATION ADMINISTRATION

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

C. D. Taylor
Norland, North Carolina

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4864

Date Received: 11-1-57

Government Participation %:

Region: V

Division Code: 600

BUSINESS ORGANIZATION (Check one)

- Individual [X]
- Corporation [ ]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: No. Co.

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title

Mineral(s) for which you wish to explore: Ruby Mica

Estimated Cost of Project: $ 20,000.00

LOCATION OF PROPERTY

Name	County	State
	Amelia County,	Virginia

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

October 28, 1957
Dated

C. D. Taylor
BY (Signature)

Lessee
Title

False statement or certification to any Department or Agency of the United States Government is a criminal offense. Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in *2(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations in known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work*. Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in *5(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not report initial repairs listed in *5(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-GUP. PRI., WASH., D.C. 35539

1.(a)As shown on attached lease. Property lies in wooded area on the west side of County Road 630 in Amelia County, Virginia and lies in a well defined area in that the wooded area extends for a distance of approximately one-half mile in all directions, and thus it can readilly be seen that there is more than sufficient area for mining purposes.
(b). Property known as Champion Mine (Jefferson No. 4 Bland) See enclosed map.
(c). Lease. Lease is enclosed.
(d). None that are known.

2. (a) This is an old mine and there have been considerable previous workings. Known to have high grade of ruby mica.
(b) My interest have been recent and I have cleaned out to 45 feet of the old workings.
(c) Do not have figures, but considerable prior production here.
(d) Map attached.
(e) Vein-see attached map.
(f) & (g) Map attached.

3. (a) C. D. Taylor, Newland, North Carolina
(b) Mica will be shipped to U. S. Government Depot at Spruce Pine, North Carolina, a distance of approximately 300 miles.
This mine is located on County Road 630 and is 35 miles southwest of Richmond, Virginia and 3½ miles northwest of Amelia Courthouse.

4. (a) Plan to put in drag line and clean out old mine workings and then proceed with 100 feet of shafting and 150 feet of drifting. No work will be near any property lines or closer than within about ½ mile of said property lines.
(b) Property is right near road and none will have to be constructed.
(c) Work will start within 30 days and will be completed within 12 months.

5. 20 years mining experience.

6. Cost of Cleaning out old mine workings----------$9,000.00
100 feet of shafting @ $50---------- 5,000.00
150 feet of drifting @ $40---------- 6,000.00

TOTAL $20,000.00

7. Yes.
(b) Equipment.

DMEA
RECEIVED NOV 1 1957

This contract, made this 1st day of April, 1957, between J. G. Jefferson, Jr., unmarried, H. M. Jefferson, unmarried, Peyton G. Jefferson and Mary B. Jefferson, his wife, and Mary A. Jefferson, unmarried, parties of the first part and C. D. Taylor, Newland, N. C. party of the second part:

WITNESSETH that in consideration of the rental payments herein provided for, and the covenants and agreements hereinafter contained, the said parties of the first part do grant unto the said party of the second part, the exclusive right of entering in and upon the lands hereinafter described, for the purpose of searching for mica, feldspar and/or any other minerals, and of conducting mining and quarrying operations to such an extent as he may deem advisable, for a period of five years from the date of this contract, and do grant unto the said party of the second part all mica, feldspar and other minerals that may be mined in or under the said lands during said term and which shall be removed from said premises while this contract is in full force.

Said lands being described as follows: All of the land in woods owned by the parties of the first part which lies west of county road 630 and east of Terry's Branch and which are bounded on the north by the lands of Rufus McCraw and K. S. Little and on the south by Dan Robinson et als. It being understood and agreed this lease covers only the lands in woods on the above described land and does not include any land which at this time has been cleared.

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DMRA
RECEIVED NOV 1 1957
DATE

The said party of the second part agree to pay to the parties of the first part a royalty of 10% of the gross sales of all minerals mined on said premises, but in no event shall payments ~~be less than~~ Fifty Dollars ($50.00) per month, payable in advance, the first payment of Fifty Dollars ($50.00) to be made on April 1, ~~1957 and a~~ like sum on the first day of each month during the life of this contract.

The party of the second part agrees to keep a complete and accurate account of the kinds of minerals sold, the amounts, grades, prices, and the gross amount of each sale and to whom sold, of all minerals sold from said premises, and to render a statement showing the above details, to the parties of the first part on or before the 15th day of each month, showing the sales of minerals during the preceding month, and if the 10% royalty for the month exceeds the $50.00 required to be paid each month, to pay said excess to the parties of the first part on or before the 15th day of the month following said sales. The parties of the first part, their agent or agents, shall have the right to examine the books of the party of the second part at such times as they may desire.

It is understood and agreed that time is of the essence of this contract as to all money specified to be paid hereunder, and if such money is not paid on or before its due date, all rights of the party of the second part under this contract, shall, upon such default, and at the option of the parties of the first part, cease and terminate.

It is further understood and agreed that the party of the second part shall have the right to terminate and end this contract on the first day of any month, by giving notice of his intention to terminate this contract to the parties of the first part, in writing, thirty days before the first of the month on which they desire to end this contract.

The party of the second part agrees that no timber or trees upon said land shall be cut by him, his agents or servants except such as may be necessary to be removed for the sinking of shafts or the placing of dumps, and further agrees that no other damages will be done said premises other than may be necessary in the proper conduct of said mining and quarrying operations.

It is further understood and agreed that the said party of the second part shall have all proper and necessary rights to ingress and egress over and across said lands, and shall have the right to erect buildings and other structures upon said lands, and to bring upon said premises all proper and necessary machinery for the carrying on of the mining business; and shall have the right to remove all buildings, structures and machinery placed by him on said premises, provided the same shall be removed within sixty days from the termination of this contract, whether by the expiration of the five year period herein specified, or by termination by default in making the payments herein agreed upon, or upon termination by them as herein provided for.

As the land hereby leased is used as a pasture by the parties of the first part, the party of the second part agrees not to break down any fences on said land, not leave any gates open so that cattle may escape from said premises and further agrees to keep said premises free from hazards to livestock so far as practical, and will fill all open shafts and holes dug by him immediately upon completion of the mining operations at said shafts or holes.

It is further understood and agreed that the possession of the premises by the parties of the second part shall be for mining and purposes incidental thereto only, and that for all other purposes the possession of the premises shall be in the owners of said land.

It is further understood and agreed that the parties of the first part only own a 354/360 interest in the minerals hereby leased, and this 354/360 interest is the interest leased under this contract, but should the said parties of the first part or either of them, acquire the outstanding 6/360 interest or any part thereof, during the life of this lease, such additional interest shall pass under this lease without additional rental.

Witness the following signatures and seals.

J. G. Jefferson Jr (SEAL)
H. M. Jefferson (SEAL)
Mary A. Jefferson (SEAL)
Peyton G. Jefferson (SEAL)
Mary B. Jefferson (SEAL)
C. D. Taylor (SEAL)

State of Virginia

County of Amelia, to-wit:

I, J. G. DICKERSON a notary public for the county aforesaid in the State of Virginia, certify that J. G. Jefferson, Jr., H. M. Jefferson, Peyton G. Jefferson, Mary B. Jefferson, and Mary A. Jefferson, whose names are signed to the foregoing writing bearing date on the 1st day of April 1957, have acknowledged the same before me in my county aforesaid.

My commission expires Jan. 27. 1958.

Given under my hand this 6 day of April 1957.

J. G. Dickerson
Notary Public

State of Virginia

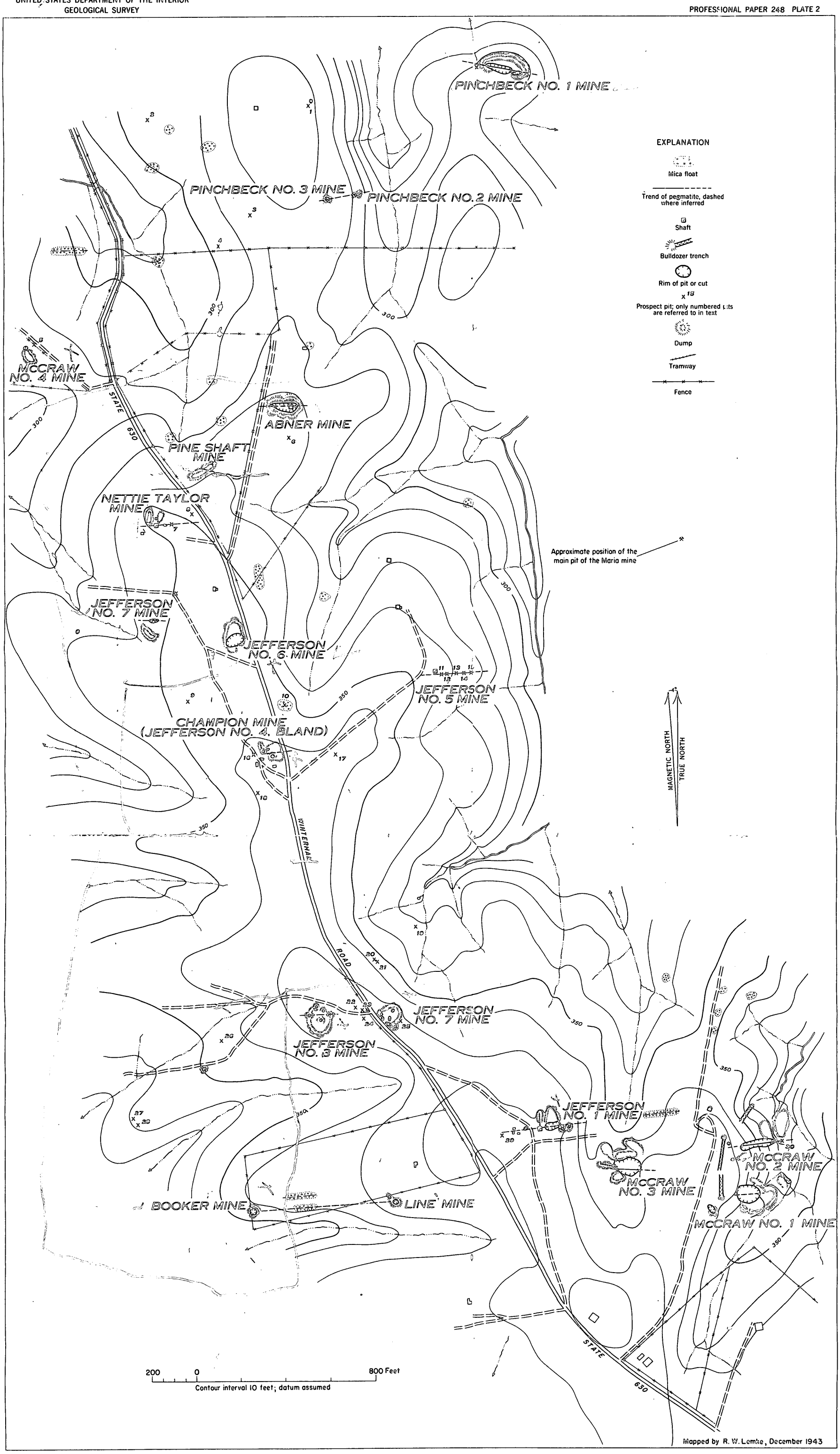
County of Amelia, to-wit:

I, _____, a notary public for the county aforesaid in the State of Virginia, certify that C. D. Taylor whose name is signed to the foregoing writing bearing date on the 1st day of April, 1957 has acknowledged the same before me in my county aforesaid.

My commission expires _____

Given under my hand this _____ day of _____ 1957.

_____
Notary Public



MAP OF A PART OF THE JEFFERSON-AMELIA AREA, AMELIA COUNTY, VIRGINIA, SHOWING LOCATION OF MICA DEPOSITS

993982 O - 52 (In pocket) No. 1

Excerpt from Mr. Mittendorf's diary, 2/21/58:

Congressman Jonas phoned this morning in connection with DMEA-4364, C. D. Taylor. He called me about this case last December. He knew that the application had been examined by Burmeister and Williams and that it had been denied. He said he was going home over the week end and would see the applicant tomorrow. In fact, he had an appointment with him. He was sure the subject would come up and wanted to know if I could give him any details regarding our denial.

I told him the subject of the exploration - the Champion Mine - had been operated on and off for 100 years and was quite a large producer of mica. It was revived during World War II under the colonial mica program but produced very little and was abandoned in 1944 at the height of the World War crisis. I said we felt that the applicant submitted an aimless proposal without any specific target. I went on further to say we felt that the pegmatite had been bottomed, and because the applicant intended to rehabilitate one of the shafts and deepen it an additional 100 feet, there was absolutely no justification for the work.

He seemed to appreciate the information very much.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/23	Anderson	600
1/23	Houk	600
1/24	[illegible]	130
1/24	[illegible]	130
1/24	[illegible]	130
"	[illegible]	110
"	[illegible]	100
		220

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[illegible]

[illegible]

WCAnderson:rsi 1/23/58
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

DMEA Form
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/23	Anderson	600
1/23	Houk	600
		110
		100
		220

600

January 23, 1958

Memorandum

To: Mr. C. O. Mittendorf, Administrator

From: L. G. Houk, Director, Division of Nonmetallic Minerals

Subject: Evaluation of application and field examination report.
Docket No. DMEA-4864-Mica
C. D. Taylor
Champion Mine (Jefferson No.4 Bland)
Amelia County, Virginia

Denial of application is recommended.

Mica: Irregularly distributed in pockets concentrated near margins of the quartz core. Light brown in thick sheets, colorless in thin sheets. Books range from 4 to 14 inches in diameter and from 2 to 10 inches in thickness. Flat, splits freely, relatively free from staining. Some books are soft, ruled, and fractured.

Pegmatite: Distinctly zoned, with a massive 6 foot quartz core, whose margins contain concentrations of mica in plagioclase. The outer border zone of medium-grained plagioclase, 1 to 5 feet, contains abundant scrap mica. Wall zone is albite. The pegmatite is short and lenticular, cutting across foliation of country rock, 20 feet in maximum thickness, narrows to 8 feet within a distance of 50 feet in one direction and pinches out within 50 feet in the other, with a bottom or "keel" at a depth of less than 100 feet.

Workings: Extensive, intermittently operated for nearly 100 years, to a depth of about 100 feet. At least 3 shafts have been sunk.

Past Production: No accurate total figure available. During a period Pre-World War II, 200,000 pounds [illegible] removed from which 15,000 pounds of sheet mica was recove[illegible] [illegible]ring Colonial Mica days, 1210.55 pounds of mica was pr[illegible] [illegible]ed at $7,263.30. Since that time very little mica has [illegible]duced.

Method of Exploring: Proposed by Applicant:

Cleaning out old mine workings	$9,000.00
100 feet of shaft @ $50.00/ft.	5,000.00
150 feet of drift @ $40.00/ft.	6,000.00
Total amount requested	$20,000.00

0623

Comments: Applicant's proposal is to sink below present bottom workings. All portions of this work are within a maximum of 110 feet of the property line. It appears that reserves of mica were exhausted when the mine was abandoned. There is no evidence of a potential target for the expenditure of $20,000.

Recommendations:

It appears to the Division of Nonmetallic Minerals that the proposed exploration project is useless, therefore, concurs in the Field Team's recommendation to deny the application. The Commodity Members of the Bureau of Mines and Geological Survey concur.

W. C. Anderson

W. C. Anderson
Division of Nonmetallic Minerals

WCAnderson:rsi 1/23/58
Copy to: Admr. R. File
Mr. Houk

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

January 10, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials 1/13 1/13 220 600

Subject: DMEA-4864 (mica)

Applicant: C. D. Taylor

Name and Location of Property: Champion Mine, Amelia County, Va.

Date of Field Team Report: 1/6/58

Date Rec'd. by Branch of Ceramic & Fertilizer Materials: 1/9/58

Field Team Recommendation: Recommend denial of application

Comments:

1. This mine has an extensive history and field examiners feel sure it has been mined out.

2. The only logical direction for expanded exploration is too close to property line to meet DMEA requirements.

3. Reserves of strategic mica are estimated to be negligible.

Recommendation:

I concur with the recommendation of the field team for denial of the application.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

1-10 gt 220 600

January 9, 1958
Re: DMEA 4864
C. D. Taylor
Champion Mine
Amelia County, Virginia
No estimate of cost - 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 applicant requested assistance in doing more work in a pegmatite from which production was obtained in years long gone. No definite target was offered by the applicant, instead he expected to find unmined pegmatite which might be mica-bearing.

Mapping by U. S. Geological Survey personnel* when the mine was open in 1944 and 1945 shows the bottom of the pegmatite, the keel, had been reached. Probably the remnants of the pegmatite, if any, are small and search for them is not justified.

The examiners recommend that the application be denied. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

*W. R. Griffitts, R. H. Johns, and R. W. Lemke

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

January 6, 1958

1/8 gb 220
1-10 2 130
1/13 C 220
1/13 Hoch 600

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report - DMEA-4864(mica)
Champion Mine, Amelia County, Virginia

Transmitted are three copies of the subject examination report.

The Field Team concurs with the Field Examiners in the recommendation for denial of this application.

Robert A. Laurence
Executive Officer, DMEA-Region V

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

1-10-58

On - Site
Green Right

FIELD TEAM REPORT ON EXAMINATION OF PROPERTY

DMEA Docket No. 4864 (mica) 1/10 3/3 130
Applicant: Mr. C. D. Taylor, Newland, North Carolina 220
Location: Champion Mine, Amelia County, Virginia

Conclusions and Recommendations

Previous geologic mapping, by persons who were able to enter the underground workings, has shown that the mica-bearing pegmatite has been mined to the "keel" of the pegmatite mass. The same geologic mapping shows that the pegmatite pinches out to the west. Under the conditions it would not be advisable to deepen the Sterrett shaft, as the Applicant proposes, because such work would be below the keel of the pegmatite with no chance of discovering strategic grade mica. If the old shaft were rehabilitated, the only logical direction to drift would be east - through areas that had been previously mined. The Sterrett shaft is only a little over a hundred feet from the east boundary of the Applicant's lease, which does not leave much room for large amounts of mica.

1-10-58

The Applicant's proposal is based solely on the proposition that previous mining, dating back nearly a hundred years, had not obtained all the mica in the deposit. The Applicant's proposed project has no definite target because the position of possible unmined mica in the old mine is unknown and even the existence of such unmined reserves is open to conjecture. The most logical assumption that presents itself is that the mine was closed and abandoned after the known reserves of sheet mica were exhausted.

The Applicant's proposed project is an aimless proposal of mine rehabilitation, shaft sinking and drifting that has as its objective the

chance discovery, through pure good fortune, of unmined mica that might have inadvertently been overlooked by several previous mica mine operators.

It is the opinion of the examining team that significant amounts of sheet mica would not result from additional exploratory work at the Champion mine. The examiners believe that most, if not all, of the strategic grade mica has been removed from the mine. Under those conditions it is recommended that the application for DMEA assistance be denied.

Time of Examination and Location of Property

This property was examined on December 5, 1957 by W. P. Williams, Geological Survey and H. L. Burmeister, Bureau of Mines. The examiners were accompanied in the field by the Applicant as well as by Mr. J. A. Polhill and Mr. A. T. Garland. Mr. Polhill has an automobile agency in Lincolnton, North Carolina.

The Applicant stated that these two gentlemen have been giving him financial assistance in the surface clean up of caved material. Both Mr. Polhill and Mr. Garland say that they hope to become partners of the Applicant in the event a contract is completed for DMEA assistance.

Name and Location of Property

The area designated for exploration is known as the Champion Mine or Jefferson No. 4 Bland. No less than seven mica properties have in the past operated from within 500 feet to 2,000 feet of the Champion Mine.

The property is located in Amelia County, Virginia on State Highway 630 and is approximately $2\frac{1}{2}$ miles N 16° E of the village of Amelia (Fig. 1). The proposed exploration site adjoins graveled highway 630.

Competency of Applicant

The Applicant stated that he has had 20 years of experience in mica mining. The financial responsibility of the Applicant was not investigated but he did state that he is receiving financial assistance from Mr. Polhill and Mr. Garland.

Applicant's Property Rights

The examiners did not have a copy of the Applicant's lease. The Applicant stated that he holds a lease from Mr. J. G. Jefferson who is a co-owner and also acts as agent for the estate involved. The Applicant also stated that the lease covers approximately 200 acres, is dated April 1, 1957 and is effective for five years from that date. Consent to lien was not discussed with the Applicant. State highway 630 forms the northeastern boundary of the property (Fig. 1).

Geology and Mica Deposits

The geology and mica deposits of the Amelia district are well described in unpublished geologic reports in U. S. Geological Survey files and in U. S. Geological Survey Professional Paper 248-B, Mica Deposits of the Southeastern Piedmont, by Lemke, Jahns, and Griffiths, 1952. Those reports have been freely drawn upon in the following descriptions.

The Amelia pegmatite district is near the eastern border of the Piedmont physiographic province. Most of the country is gently rolling to nearly flat with a maximum local relief of about 100 feet.

Most of the district is underlain by a complex series of gneisses and schists that are cut by both granitic and gabbroic igneous rocks. The chief metamorphic types are quartz-biotite schist, biotite

augen gneiss, garnetiferous mica schist and gneiss, and hornblende schist and gneiss.

The biotite augen gneiss, which may be called quartz monzonite gneiss, is well foliated, and much is schistose. It consists chiefly of feldspar and quartz, with flakes of biotite and muscovite, and minor garnet, magnetite, graphite, and hornblende.

The garnetiferous rocks are light to medium gray where fresh but they weather to a dark reddish brown. Most of the hornblendic rocks are dark greenish gray and markedly schistose.

The foliation and layering in the rocks generally strike northeast and dip moderately to steeply northwest. Locally the rocks are folded and contorted on a small scale. The mica-bearing pegmatites in the district occupy a north-south belt about 4 miles wide and 10 miles long. Most of the mica deposits, however, strike east, or nearly normal to the trend of the pegmatite belt. The deposits are distinctly discordant, dip steeply, and tend to pinch out at depths of 125 feet or less. They are lenslike or podlike in shape.

At the Champion mine there is much surface cover, and the rocks are deeply weathered. Old reports state that the rock in the vicinity of the Sterrett shaft, figure 2, is weathered to a depth of 67 feet. No outcrops could be found near the Champion mine outside the main open pit.

At the present time little or nothing can be seen of the Champion mine pegmatite. Through the inactive years the walls of the open pit have slumped, much surface detritus has washed into the pit, and all of the old underground workings and shafts are caved and inaccessible. A shallow shaft, about 20 feet deep from surface, figure 2, was recently dug by the

Applicant with hand tools. The whole depth of the shaft shows heavily weathered, kaolinized gneiss. No sheet mica was found in the shaft.

According to Geological Survey geologists who mapped the mine when it was accessible, the Champion pegmatite is a relatively short, thick, irrregularly lenticular body that cuts across the foliation of the enclosing country rock. The trend of the pegmatite is nearly east and the mean dip of the north wall is nearly vertical. The south wall is distinctly less steep, so that the pegmatite bottoms in the augen gneiss at the 90-foot level in the western end of the workings. The pegmatite is about 20 feet in maximum thickness but narrows to less than 8 feet within a distance of 50 feet to the east and pinches out at a distance of 50 feet to the west. The Champion pegmatite is similar to most of the other mica deposits in the area in that the pegmatite is short and lenticular with an easterly trend and a bottom or "keel" at a depth of less than 100 feet.

The pegmatite is distinctly zoned. Massive quartz, about 6 feet in average width, forms the core. Muscovite mica is concentrated near the margins of the quartz core in plagioclase-rich pegmatite. Minor accessory minerals are found chiefly near the walls. The 1- to 5-inch outer border zone contains medium-grained plagioclase (about Ab_{85}) and abundant scrap mica in books $\frac{1}{2}$ to $1\frac{1}{2}$ inches in diameter. Individual books and clusters of books tended to lie normal to the adjacent wall-rock contacts. The wall zone consists chiefly of white to creamy and greenish albite (Ab_{98}).

The pegmatite consists of albite, quartz, and muscovite, with subordinate oligoclase, perthite, and sericite, and minor tourmaline, garnet, beryl, microlite, calcite, arsenopyrite, pyrochlore, scorodite, and allanite. Kaolin and marcasite are the principal supergene constituents.

Muscovite mica was irregularly distributed in pockets or shoots that generally were concentrated near the margins of the quartz core. The mica books ranged from 4 to 14 inches in diameter and from 2 to 10 inches in thickness. The mica is light brown in thick sheets and nearly colorless in thin sheets. The mica is flat, splits smoothly, and is relatively free from surface staining and inclusions. Objectionable properties of some books are softness, ruling, and fractures.

HISTORY, PRODUCTION, AND RESERVES

The Champion mine is one of the oldest in the state of Virginia. The mine is said to have been operated by a Mr. Skelton shortly after the Civil War, at first by open-cut methods and later by stoping along the north wall of the deposit from a vertical shaft. During later, intermittent operations the Skelton shaft was deepened to at least 90 feet. A second shaft was sunk near the south wall of the deposit by Benz Grindstaff about 1875. In 1913 and 1914, J. Boyd Bland of Richmond, deepened the Grindstaff shaft and mined mica from irregular stopes and tunnels. D. B. Sterrett leased the mine from Judge Garland Jefferson in 1943 and shortly thereafter subleased it to the Champion Mining Co. An exploratory shaft was sunk on the north side and near the west end of the deposit, Figure 2, but it was abandoned and filled when caving ground was encountered. The main Sterrett shaft was then collared at a point about 20 feet to the west and was sunk in country rock and minor pegmatite to a depth of about 100 feet. Stoping was extended eastward from the shaft bottom. The mica-bearing rock was worked out, and the mine was abandoned in December 1944. The distribution of workings in the lower part of the mine is shown on sections A-A' and B-B', figure 2. The lowest

known part of the deposit was mined out to leave a basin of schist about 25 feet long and 10 to 15 feet wide. The Sterrett stope is known to extend downward to the keel of the pegmatite between the Sterrett and Skelton shafts.

About 200,000 pounds of mica was removed during the Bland operations, and 15,000 pounds of sheet material was recovered. Sterrett reported that production from January to May 24, 1944 amounted to 1,210.6 pounds of full-trim mica valued at $7,262.66 and 16,000 pounds of scrap mica. Of the scrap mica, 11,974 pounds was sold for $141.15. The full-trim mica was cut from 7,600 pounds of block mica, giving a recovery average of 16 percent.

Production data supplied by Colonial Mica Corp. are tabulated as follows:

Period	Pounds	Value (Dollars)
February 1944	79.69	$ 478.14
March	231.44	1,388.64
April	409.06	2,454.36
May	490.36	2,942.16
Totals	1,210.55	$7,263.30

A buyer for the Colonial Mica Corporation stated that 35 percent of the mica from the Champion mine has been of No. 1 quality.

During clean-up operations with a bulldozer from May 14 to August 2, 1957, the Applicant recovered a total of 69.74 pounds of trimmed mica. All of the mica was salvaged from caved material.

Following are data concerning the mica recovered from the caved material:

Total amount recovered, all classes	69.74 lb.
Total receipts	$1,053.60
Average value	$15.11 per lb.
Good stained	54.86 percent
Stained	34.90 percent
Heavy stained	10.23 percent

The mica was sold at the Spruce Pine, North Carolina, buying station.

It was not possible for the examining team to estimate how much mica-bearing pegmatite, if any, remains on the property. The old pit walls are slumped, and the old underground workings are all caved, filled and inaccessible.

Applicant's Proposed Project

The Applicant has proposed to explore the old and inoperative Champion (Jefferson No. 4) mica mine by continuing his partial clean-up of surface caving, cleaning out and rehabilitating the caved Sterrett shaft, sinking below the bottom of the caved shaft and drifting eastward from the bottom of the shaft extension. No details of cost estimate were included in the application.

The proposed exploration area has been worked underground from three shafts and is at present deeply caved from about 10 feet west of the Sterrett shaft to 45 feet east of the Skelton shaft. The cave extends in a north and south direction about 45 feet each side of a line connecting the Sterrett and Skelton shafts. The Applicant has removed caved material from this area with a dragline to a maximum depth of 27 feet below the old surface. This caved material probably continues to a total of at least 70 feet and it's removal would not benefit further mining operations.

Cleaning out the apparently caved Sterrett shaft from the present bottom of the pit to the shaft bottom 75 feet below would result only in

arriving below the "keel" of the pegmatite. Sinking below the bottom of the Sterrett shaft would therefore all be done below the keel of the pegmatite and would therefore be useless (Fig. 2).

In relation to drifting from the bottom of the proposed shaft extension, the Applicant stated it is common knowledge that the pegmatite extends only several feet west of the Sterrett shaft. This is borne out by the maps and sections accompanying U.S.G.S. Professional Paper No. 248 and those accompanying the Strategic Minerals Investigations Report of May 1944 by Richard W. Lemke and Edward Ellingwood. The Applicant and the examiners agree that a drift to the westward would be useless. The Applicant proposes to drift eastward under the caved area toward the road, which is the property line, and only 110 feet from the Sterrett shaft. Such a drift would be under the keel of the pegmatite for the complete drift length.

All portions of the Applicant's proposed work would be within a maximum 110 feet of the property line and therefore not allowable under DMEA regulations. Break down and development of costs was not discussed with the Applicant for the reason that denial of the application is being recommended.

H. L. Burmeister

H. L. Burmeister, engineer
U. S. Bureau of Mines

W. P. Williams, geologist
U. S. Geological Survey

December 1957

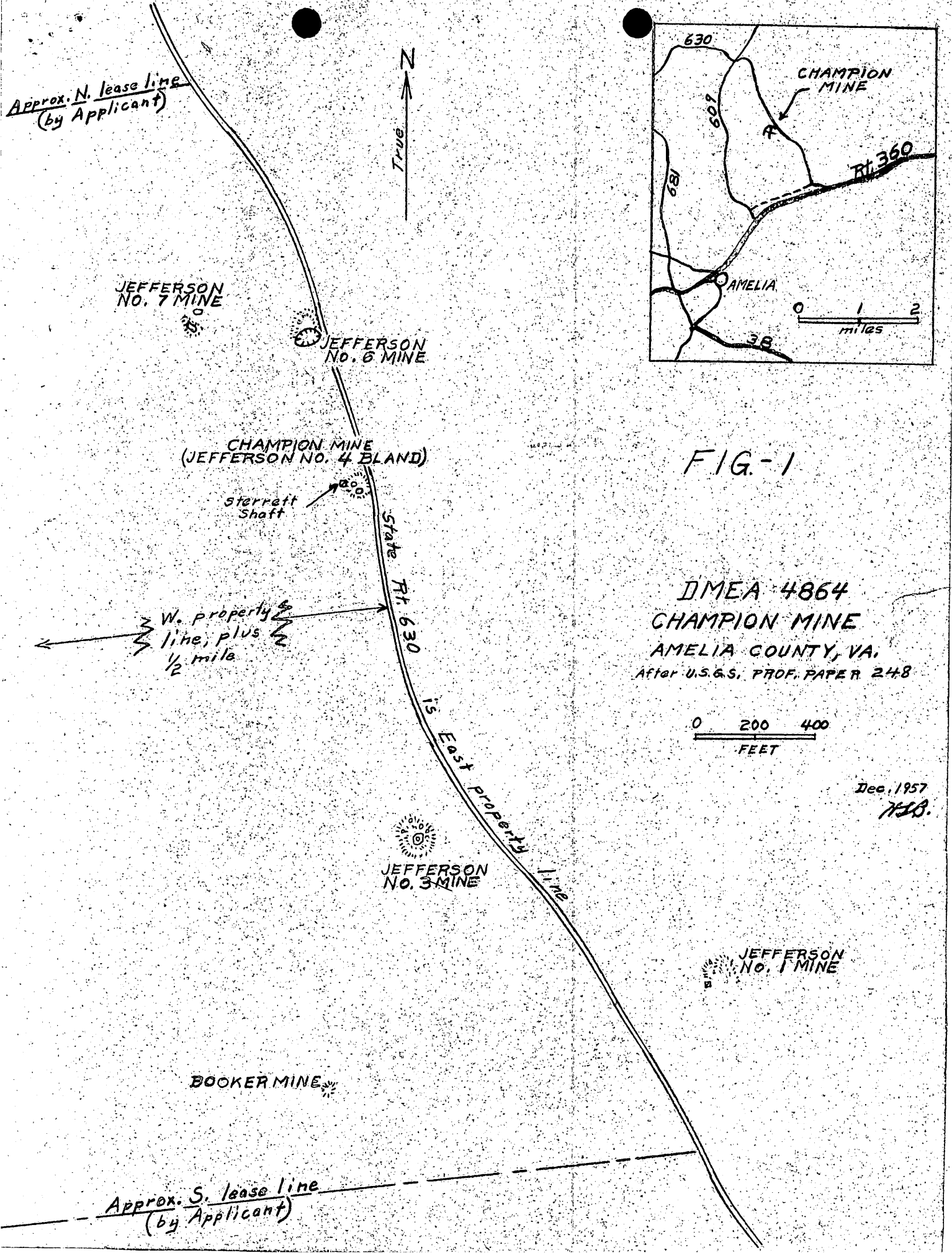
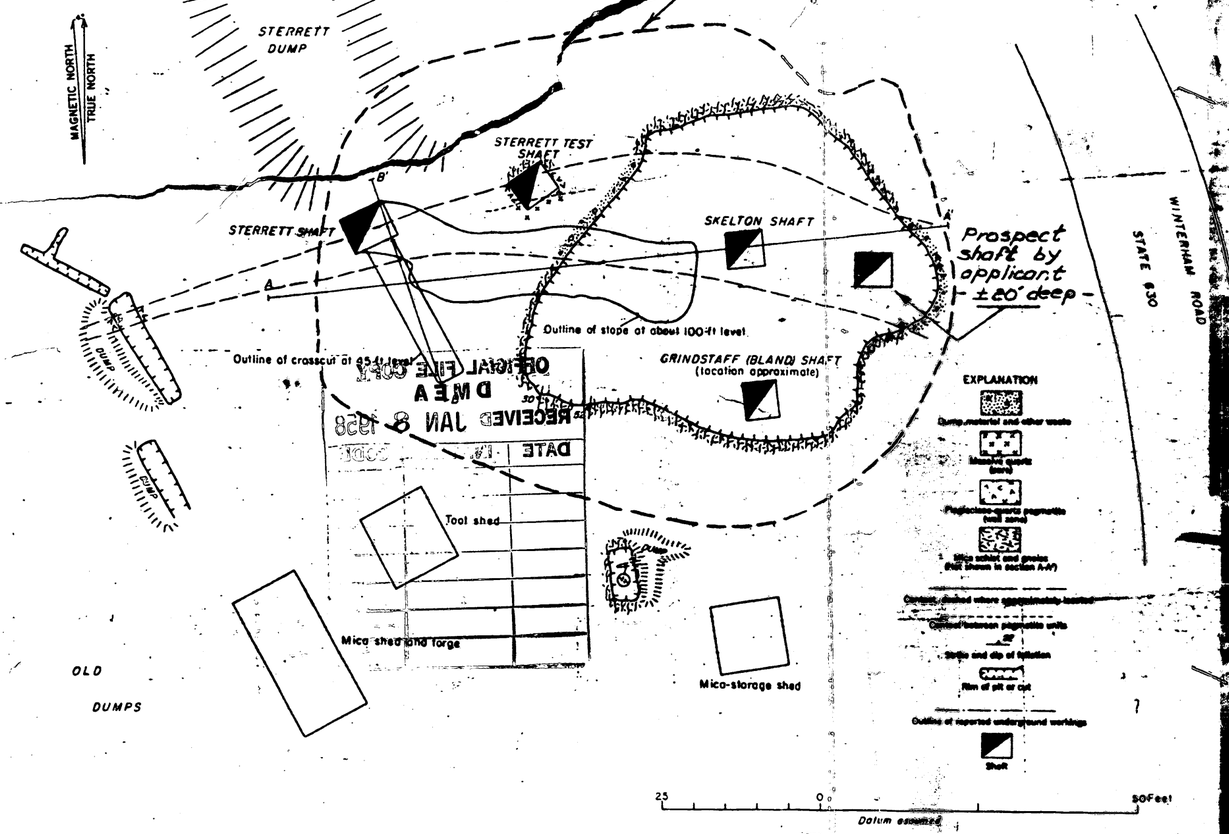

Approx. N. lease line (by Applicant)
N
True
JEFFERSON NO. 7 MINE
JEFFERSON NO. 6 MINE
CHAMPION MINE (JEFFERSON NO. 4 BLAND)
Sterrett Shaft
State Rt. 630 is East property line
W. property line, plus 1/2 mile
JEFFERSON NO. 3 MINE
JEFFERSON NO. 1 MINE
BOOKER MINE
Approx. S. lease line (by Applicant)
630
609
681
CHAMPION MINE
Rt. 360
AMELIA
38
0 1 2
miles
0 200 400
FEET
Dec. 1957
DMEA 4864
CHAMPION MINE
AMELIA COUNTY, VA.
After U.S.G.S. PROF. PAPER 248

FIG.-1

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 8 1958

DATE	IN

DMEA 4884
DECEMBER 1957



OFFICIAL FILE COPY
DMEA
RECEIVED JAN 8 1958
DATE

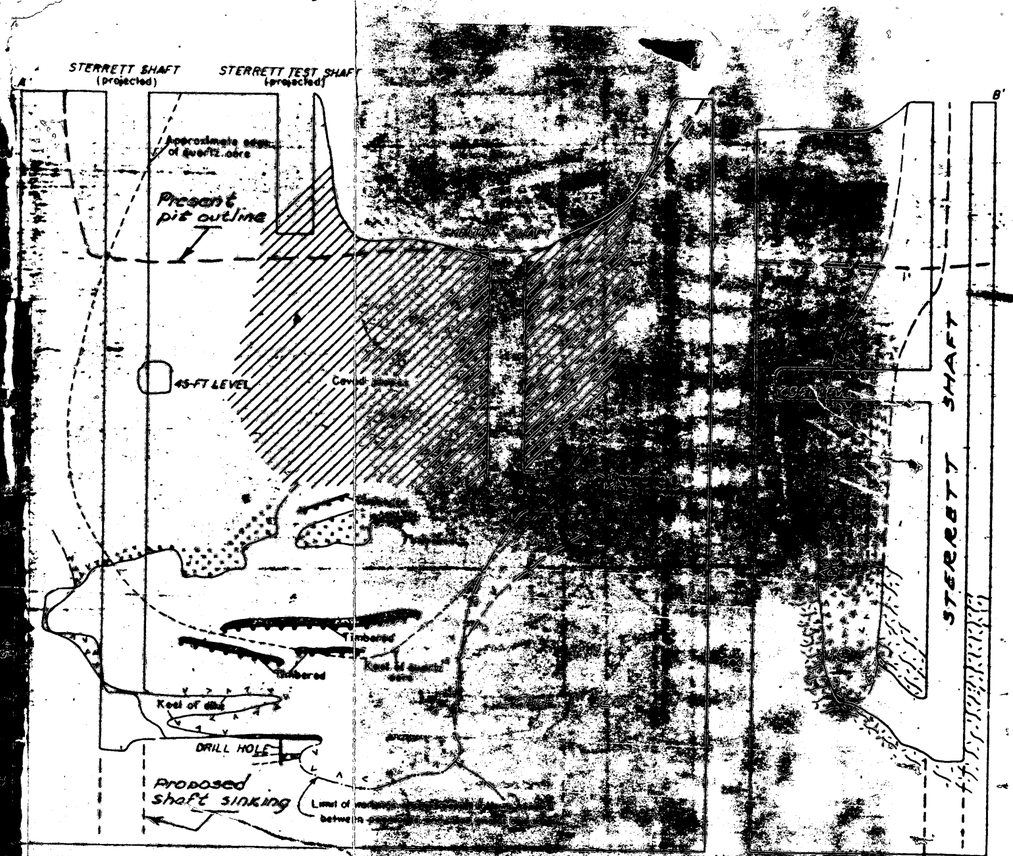


FIG. 2 — GEOLOGIC MAP AND SECTIONS OF THE CHAMPION MINE, AMELIA COUNTY, VIRGINIA

993962 O - 92 (In pocket) No. 3

A Form 7
4-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/15	Anderson	600
11/15	Houk	600
11/18	Sellers	130
11/18	Lamb	130
11/18	Hilgaard	130
"	Johnson	110
"	Christensen	100
11/19		220
		600

600

NOV 18 1957

Mr. C. D. Taylor

Rowland, North Carolina

Re: Docket No. [illegible]-[illegible]-Mica
C. D. Taylor
Champion Mine
Amelia County, Virginia

Dear Mr. Taylor:

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:gad 11/15/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Killsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Line Dynamic

0623

AEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/15	Anderson	600
11/15	Houk	600
11/18	[illegible]	130
11/18	[illegible]	110
11/18	[illegible]	100
		220

C09

NOV 18 1957

Mr. Robert A. Emerson
Executive Secretary, AEC
Field Team, Region V
Room 20, Post Office Bldg.
Amarillo 2, Texas

Re: Docket No. [illegible]
G. D. Hayden
Carson Mine
Amarillo Corridor, Virginia

Dear Mr. Emerson:

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

In lieu of memorandum Orlet Davidson 6 and 16, 1957, by Mr. J. P. Dietrich, C.M.D. and Mr. L. D. Williams, R.M.D. respectively, submitting to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SHB)

Approved:

Frank D. Lamb (SHB)
Director, Division of Raw Materials

Thor H. Kiilsgaard (SHB)
Director, Geological Survey

Enclosures 3

WCAnderson:gad 11/15/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

0623

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

IN REPLY REFER TO:

DMEA
RECEIVED NOV 18 1957
DATE 11/15 INITIALS gb 11/15 220 600

Memorandum

November 14, 1957

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of application, DMEA 4864 (mica), C. D. Taylor, Champion mine, Amelia County, Virginia.

The applicant proposes to explore for ruby mica on a property that is about half a mile square. The work site would be an old mine which, according to the applicant, produced much high grade mica. No production figures were submitted.

The applicant proposes to rehabilitate the old mine, sink 100 feet of shaft, and drift 150 feet.

The application had best be reviewed by the Field Team. A field examination of the property may be necessary.

W. P. Williams

W. P. Williams

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

November 6, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials 11/7 gb 220 600

Subject: DMEA-4864 (mica)

Applicant: C. D. Taylor

Name and Location of Property: Champion Mine, Amelia County, Va.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 11/4/57

Comments:

1. This is an old mine with considerable previous work.

2. Applicant claims there has been high production of ruby mica in the past.

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

Recommendation:

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

W. F. Dietrich

W. F. Dietrich

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

November 1, 1957

Mr. C. D. Taylor
Newland, North Carolina

Dear Mr. Taylor:

Subject: DMEA-4864

Your application for exploration assistance, dated October 28, 1957 submitted to our office at Knoxville, Tennessee has been assigned Docket Number DMEA-4864 and referred to the Nonmetallic Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region V