DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4544

Application
- [ ] 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- [ ] Withdrawn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:

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
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Comoleted 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
WASHINGTON 25, D. C.
POST OFFICE BLDG.
KNOXVILLE 2, TENN.

November 15, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region V

Subject: Application from Johnson Mine Company, Newland, N. C.
Johnson Mine, Ashe County, North Carolina (Mica)

Enclosed are three copies of the subject application, received at this office today. We are keeping the fourth copy for our use.

Only one copy of the Consent to Lien was received. It is enclosed.

This is the same property, and same applicants (except for addition of Lewie Aldridge as a partner) as DMEA-4067. On the new application, Mr. Garland's initials are given incorrectly as I. T., whereas they should be A. T.

Robert A. Laurence
Robert A. Laurence

Enclosures 4

RECEIVED
NOV 19 1956
D.M.E.A.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-4544
Metal or Mineral MICA
Date Received 11-19-56
Estimated Cost $10,140
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: Johnson Mine Company c/o S. B. Lacey, Jr. Newland, N. C.
Partnership: S. B. Lacey, Jr & I. T. Garland, Newbnd, N. C.
Lewie Aldridge, Spruce Pine, N. C.

(*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 Described in Mining Lease From W. W. Goodman et al to S. B. Lacey, Jr. and A. T. Garland, recorded in Ashe County, N. C. Register of Deeds Office in Book #T-3, s-203-204 on 12th. day of December 1955. Sketch, with calls, attached.

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

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

(*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. Reference to first contract # DMEA, Contract # IDM-E 920.

(*e*) If you own the land, describe any liens or encumbrances on it None- not owned by us.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.
Refer to contract Idm-E 920 - DMEA 4544 and letter of Nov. 8, 1956.

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.

RECEIVED
NOV 15 1956
Geologic Division
Knoxville, Tenn.

16—66551-1

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 6 Mths 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. See original application.

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: ~~xx~~ Attached papers.

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Nov. 12, 1956

Johnson Mine Company
(Applicant)

By S B Lacey Jr.
W. T. Garland
Louise Wolcott

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

Question 6-

We would like for this contract to be written up on a short contract on the basic of cost per unit.

The exploration project to consist of cribbing up or reconditioning the entrance to the existing shaft, then cutting shaft down to the pegmatite, then driving a tunnel in pegmatite, also the necessary buildings. The complete cost estimated as follows:

Tool House 1 unit @	75.00
Powder House 1 unit @	25.00
Exploder magazine 1 unit @	15.00
Reconditioning Shaft 1 unit @	500.00
100 feet of Shaft (1 foot = 1 Unit) @ 50.00	5000.00
100 feet of Tunnel (1 foot = 1 Unit) @ 45.00	4500.00
Total estimated cost of project	$10,140.00

We have all the necessary machinery, some new, and all in good working condition.

We have completed in second ~~mat~~ place 40 feet of shaft and 30 feet of tunnel and have recovered mica which we have sold to the depot and for which we have already sent into you the amount and copy of the sales. We hereby, assume the obligation incurred under contract No. Idm-E 920 in the amount of $305.04 less royalty already paid you. We have bulldozzed on strike 70 feet wide and 50 feet deep. No more bulldozing necessary.
Sketch showing proposed working is attached.

CERTIFICATION TO THE ABOVE SIGNED ON FORM MF-103 ATTACHED.

MF-203
Revised March 24, 1955

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

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Ashe, State of North Carolina, described as follows:1/

Beginning on a stake in the center of a branch in the W. W. Goodman property; thence running South 86° 45' West 520 feet to a stake; thence North 3° 15' West 865 feet to a stake; Thence North 86° 45' East 520 feet to a stake; Thence South 3° 15' East 865 feet to the point of beginning, containing 10.32 acres.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

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

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

None

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated December 10, 1955, and recorded in book T-3 page S-203-204 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

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

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

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

5. Added provision: _____

_____

_____

_____

_____

_____

_____

_____

Dated this _____ day of _____, 195__.

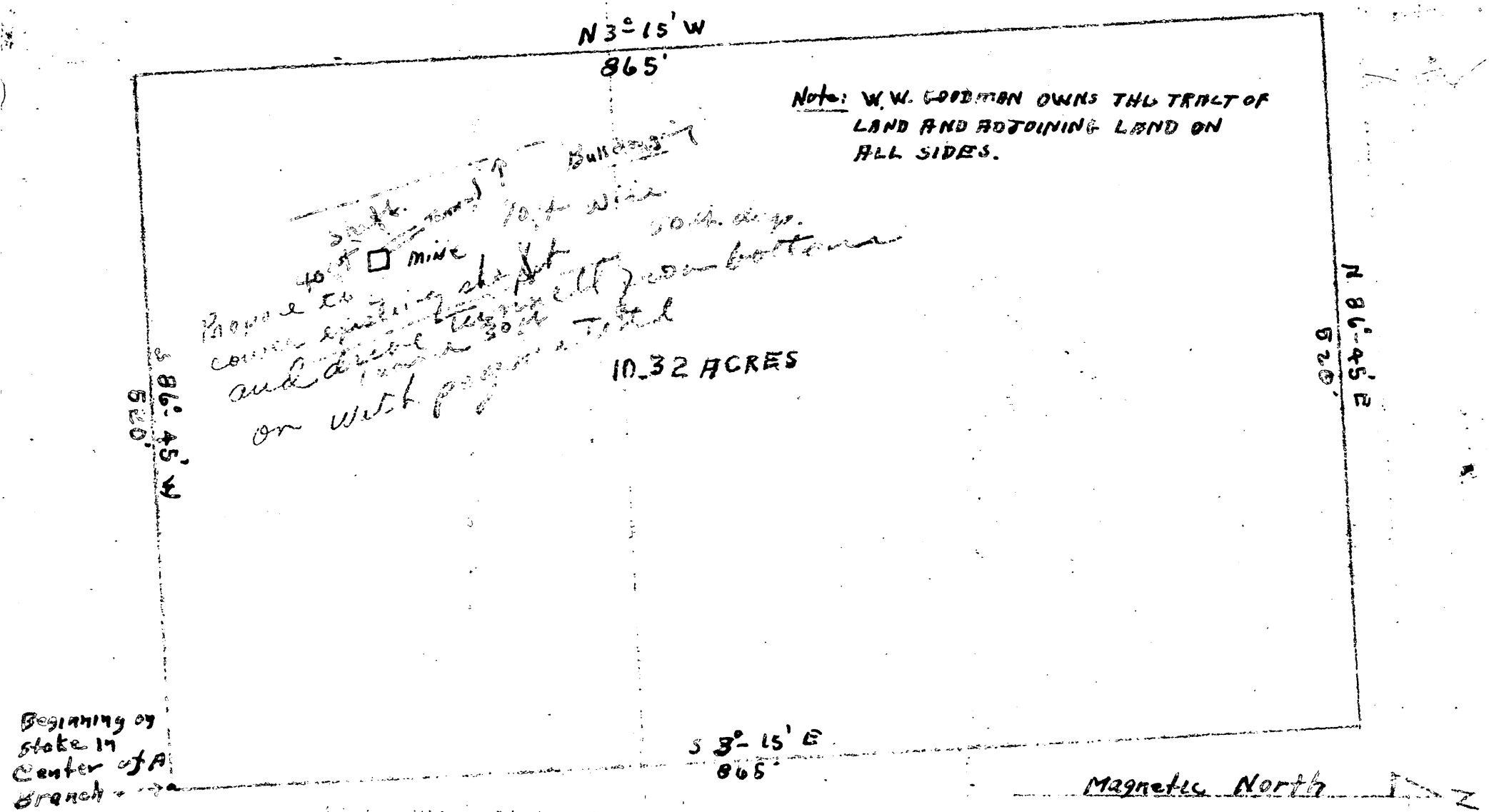
W. W. Goodman [Seal]

Frances Eller Goodman [Seal]

W. W. Goodman [Seal]
Henry Goodman

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

_____
[Corporate Seal]



TRACT LOCATED WEST OF BAIDWIN IN ASHE COUNTY, N.C.
MINING RIGHTS LEASED BY S.W. LAKEY JR. AND R.T. GARLAND.

PLAT PREPARED DEC. 10-1955 BY L.B. TYSON REG. ENGINEER

Scale 1" = 100'

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
Mr. Martin 3538 Int.	RUN STOP		RUN STOP
	RUN STOP		RUN STOP
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Send surplus envelopes to supply room for reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required. Your mail room has RUN and STOP information.

10

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

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DMEA
RECEIVED JUL 18 1957

DATE	INITIALS	CODE
7-18	C	220
		600
	July 17, 1957	225

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4544 (mica)

Applicant: Johnson Mining Co. (Lacey, Garland, and Aldridge)

Name and Location of Property: Johnson Mine, Ashe County, N. C.

Date of Field Team Report: 6/25/57

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 7/1/57

Field Team Recommendation: Recommend that application be denied.

Comments:

1. Applicant has done some work since bulldozing a trench under Stage I of contract DMEA 4067 - Idm-E 920 consisting of further bulldozing and sinking a 40-foot shaft.

2. There are several lenses of mica-bearing pegmatite but they are of limited size and continuity and in the opinion of the field examiners do not offer a target large enough to warrant an exploration program.

3. Possibility for discovery of a worthwhile deposit of strategic mica is considered poor.

Recommendation:

I concur with the recommendation of the field team that the application be denied.

W. F. Dietrich

W. F. Dietrich

DMEA Form 7
(12-56)

Dietrich

OFFICIAL FILE COPY

Date	Surname	Code
7/9	Anderson	600
7/10	Houk	600
7/10	Selfridge	130
		~~130~~
7/10	Kiilsgaard	130
7/10	Johnson	110
"	Mittendorf	100
7/11	P.K	220
		225

600

JUL 11 1957

Johnson Mine Company
c/o Mr. S. B. Lacey, Jr.
Newland, North Carolina

Re: Docket No. DMEA-4544-Mica
Johnson Mine Company
Johnson Mine
Ashe County, North Carolina

7/18 Bishop (130)

Gentlemen:

Your application for aid for an exploration project and other reports available to us in Washington relating to the subject property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing significant reserves of mica is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WCAnderson:rsi 7/9/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/9	Anderson	600
7/10	Houk	600
		100

600

July 9, 1957

Memorandum

To: Mr. C. O. Mittendorf, Administrator

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

Subject: Evaluation of application and field examination report.
Docket No. DMEA-4544-Mica
Johnson Mine Company
Johnson Mine
Ashe County, North Carolina

Denial of application is recommended.

Mica: Clear, reddish brown, thin flat books averaging about 2 by 4 inches. Minor amount of edge-cracking and ruling.

Pegmatite: Several small lenses, largest being 40 feet long and 3 to 4 feet thick, others substantially smaller. Concordantly emplaced in a soft, deeply weathered gneiss. Composed of medium fine-grained kaolinized plagioclase, minor perthite, interstitial quartz, and some muscovite. Largest structure is feldspathic and deficient of quartz and muscovite.

Workings: Application based on work done subsequent to Stage I bulldozing completed under DMEA-4067. Under DMEA-4067, applicants bulldozed a trench far in excess of that required. Dimensions - 260 feet long, by 25 feet wide at bottom, by 45 feet deep. Subsequently deepened trench 10 feet, sank 40 feet of uncribbed shaft, and 18 feet of drift. The trenched area cannot be used for access, since the vertical upslope wall is badly cracked and completely caved in one place.

Applicant's Proposal: Recondition existing shaft, 100 feet of additional shaft, and 100 feet of drifts at an estimated cost of $10,140.00.

Comments: Several lenses of mica-bearing pegmatite are of limited size and continuity and do not offer a large enough target for an exploration project.

Recommendations: The Division of Nonmetallic Minerals and the Commodity Members of the Geological Survey and Bureau of Mines concur in the Field Team's recommendation to deny the application.

Walter C. Anderson
Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:rsi 7/9/57
Copy to: Admr. R. File
Mr. Houk

8623

IN REPLY REFER TO:

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DMEA
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DATE	INITIALS	CODE
7/2	C	220
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

July 1, 1957
Re: DMEA 4544
Johnson Mining Company
Johnson Mine
Ashe County, North Carolina
$10,140.00 - 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 applicant requested assistance in doing further work on the pegmatite on which bulldozing was done under contract Idm-E920. Work was done subsequent to the contract work, but in the opinion of the examiners, the outlook for mica production had not been bettered and the physical conditions, mining wise, had worsened.

They conclude a satisfactory target has not been found and recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 12 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
DMEA
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DATE		CODE
6/27	C	220
		130
7/1	C	220
7/8	wra	600

June 25, 1957

Memorandum

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

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

Subject: Field Examination Report, DMEA-4544, Johnson Mine (mica)
Ashe County, North Carolina
Johnson Mining Company, Spruce Pine, North Carolina

Enclosed are the original and three copies of the subject report.

The Field Team agrees with the recommendation of the examiners that the application be denied.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 4

Reviewed by
DMEA OPERATING COMMITTEE
7-1-57
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION, REGION V

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 27 1957

DATE	INITIALS	CODE
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On

DMEA-4544, JOHNSON MINE - Mica
Ashe County, North Carolina

On-Site Exam Rpt

By

S. C. Bergman and E. L. Boudette, Geologists
U. S. Geological Survey

and

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

June 24, 1957

Reviewed by
DMEA OPERATING COMMITTEE
7-1-57
(date)

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 27 1957

DATE	INITIALS	CODE
		1203
		220

FIELD EXAMINATION REPORT

On

DMEA-4544 (mica) JOHNSON MINE

Applicant: Johnson Mining Company, Partnership composed of:
S. B. Lacey, Newland, N. C., I. T. Garland, Newland, N. C.,
and Lewie Aldridge, Spruce Pine, N. C.

Summary

This application is based on work done subsequent to the Stage I bulldozing completed under DMEA-4067. Two visits were made to inspect a 40-foot deep shaft sunk by the applicants in the floor of the bulldozer cut. At no time could access be gained to the shaft, but what could be seen in the walls, merely reaffirmed the conclusions reached by the examiners on previous visits. There are several lenses of mica-bearing pegmatite exposed in the wall of the cut and shaft. They are of limited size and continuity and in the opinion of the examiners do not offer a large enough target for an exploration program even if all of the exposed pegmatite were mineralogically favorable, which it is not. In addition, the cut can no longer be used for access to the pegmatite since the vertical upslope wall which is as high as 50 feet, and immediately adjacent to the exposures is badly cracked and in one place has completely caved and covered the exposures. It is the recommendation of the examiners that the application be denied.

INTRODUCTION

Location

The mine is located 2.9 airline miles S. 57° W. from the intersection of Highways 194, and 221 at Baldwin, Ashe County, North Carolina. The mine lies about one fourth mile south of Highway 194 on a heavily wooded hillslope, and may be reached from the Highway by means of a fairly good bulldozer trail.

Examination

The property was examined on January 23, 1957, and subsequently on May 1, 1957, in an attempt to see what, if anything, the applicants had outlined in the post-contract shaft and drift. At no time were the under-

ground openings accessible, the applicants evidently being unwilling to go to the expense of pumping the 5-10 feet of water standing in the shaft. As Stage I of DMEA-4067, the applicants had bulldozed a trench far in excess of that required, about 260 feet long, 25 feet wide at the bottom, and a maximum of 45 feet deep. Subsequent to this work, and at their own expense, they deepened the southwest end of the trench about 10 feet and sank 40 feet of uncribbed shaft, almost at the site of the old pre-contract shaft, in soft-weathered gneiss. A reported 18 feet or so of drift in pegmatite was driven from the shaft bottom in a north-northwesterly direction. The applicants report a recovery of about $1140.00 worth of mica from this drift, with considerable muscovite left in the working face. This raised the question of the validity of DMEA participation in an area of a mine with indicated reserves (?). At the time of the second visit, a portion of the drift back could be seen to be caved, and a thick sequence of large diagonal cracks had developed in the upslope trench wall, extending from the ground surface to a depth of 10 feet below the collar in the southwest shaft wall. An area about 40 feet across and extending to the ground surface slid off into the trench about 15 feet northwest of the shaft. It appears that the complete area of pegmatite exposure is now lost to direct access, and any subsequent work that might be done would have to be carried out from a downslope adit or shaft and crosscut completely removed from the trench area. A fairly new gasoline hoist and 105 cfm compressor are and have been at the site and appear to have been there since the date of the former contract, most of the time being inoperative.

GEOLOGY

As described in previous reports, several small lenses of pegmatite were exposed from the shaft northwest, a distance of about 70 feet along the upslope side of the original trench. All structures are essentially concordant in a soft and deeply weathered gneiss which is rich in muscovite and from the deep reddish-brown iron staining probably interlayered with hornblendic material.

The structures strike N. 5-30° W. and dip from vertical to steeply southwest. The largest exposed lens is about 40 feet, end to end and 3-4 feet thick, while the few other structures exposed are substantially smaller in dimensions. The contact of a previously unknown lens is exposed in the northwest side of the new shaft. As far as could be determined, this lens has no expression in the floor of the trench. Enough of an exposure has been made along strike and across the dip of the zone to preclude the existence of any other structures in the immediate area.

Compositionally, the pegmatites are predominantly medium fine-grained kaolinized plagioclase, minor perthite, interstitial quartz, and some muscovite. The largest exposed structure is essentially feldspathic, quartz and muscovite deficient. What muscovite has been recovered apparently comes from small inermediate quartz-plagioclase-rich zones in the smaller structures. As far as could be determined, the total volume of muscovite-rich material within the exposed zone of pegmatite lenses is very small, and offers a rather insignificant exploration target.

The contained muscovite is a clear, reddish-brown color and is found in thin flat books averaging about 2 x 4 inches across. There is only

a relatively minor amount of ruling and edgecracking and as far as could be determined, it is free from mineral intergrowths.

CONCLUSIONS AND RECOMMENDATIONS

The very limited amount of pegmatite exposed in all operations as well as the very limited volume of muscovite-rich material within the exposed structures, offers practically no target on which to base an exploration program. All work has been conducted in soft deeply weathered material, (to a depth of at least 70 feet below the surface) and the present condition of the exposure area is such that the cost of any effort to reach the structures from underground would cost far more than the value of any material indicated by the past work. The poor physical condition of the area combined with the lack of an exploration target is strong recommendation for denial of the application.

June 24, 1957

S. C. Bergman and E. L. Boudette, Geologists
U. S. Geological Survey

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

May 22, 1957

Telephone conversation

Robert A. Laurence, Knoxville, Tennessee

Washington Office: Mr. L. G. Houk
Mr. W. C. Anderson

Docket No. DMEA-4544-Mica
Johnson Mine Co.
Johnson Mine
Ashe County, N. C.

An examination has been made and recommendation will be for denial. Surface work by the operator has rendered the shaft unsafe.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/26	Anderson	600
4/26	Houk	600
"	Johnson	100
4/26	C	220
		600

600

APR 26 1957

Johnson Mine Company
c/o Mr. S. B. Lacey, Jr.
Newland, North Carolina

Re: Docket No. DMEA-4544-Mica
Johnson Mine Company
Johnson Mine
Ashe County, North Carolina

Gentlemen:

Reference is made to your application for Government assistance to explore the subject property.

Our examining engineers have been unable to make an examination of your property because of the flooded condition of the mine workings. It will be appreciated if you will notify our Field Team at Knoxville, Tennessee, at the earliest opportunity, when the mine will be unwatered and in condition for a field examination. Weather conditions should now be favorable.

Prompt attention to this matter will enable us to continue with the processing of your application.

Sincerely yours,

SIGNED
Lawrence G. Houk, Chief
Nonmetallic Minerals Division

WCAnderson:gad 4/26/57
Copy to: Admr. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

February 7, 1957

EXTRACTED		
RECEIVED FEB-11-57		
DATE		CODE
2/12	C	220
2/12	wra	600

Memorandum

To: Operating Committee - Washington

From: DM EA Field Team - Region V - Knoxville, Tenn.

Subject: DMEA-4067, Idm-E920-Mica. A. T. Garland & S. B. Lacey, Jr. Johnson Mine, Ashe County, North Carolina

Reference is made to your letter of January 28.

The $1,399.20 worth of mica, on which $69.96 was paid as royalty, appears to be all that was produced from this mine during the life of the project and up to October 4, 1956.

Please note that a new application (DMEA-4544) has been submitted for additional exploration at this mine. The Operators did some underground work, on their own, after termination of the contract and it was from this work that most of the mica sold was obtained. Mr. Shirley and Mr. Bergman visited the mine January 23 to make the field examination, but all the workings were flooded. They agreed to return and examine the mine when the Operator advisesuus that it is pumped out. Unless we get a different kind of weather than we have had for the past three weeks, that may not be done for quite a while.

Robert A. Laurence
EXECUTIVE OFFICER
DMEA - REGION V

V. J. Lynch, Member
MINING ENGINEER
U. S. BUREAU OF MINES

Docket Copy
Surname:
Anderson
Houk
Kiilsgaard
Pabne
Selfridge

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

DEC - 3 1956

Johnson Mine Company
C/O Mr. S. B. Lacey, Jr.
Newland, North Carolina

Re: Docket No. DMEA-4544-Mica
Johnson Mine Company
Johnson Mine
Ashe County, North Carolina

Gentlemen:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. 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,

Frank E. Johnson

ACTING Administrator

WCAnderson:gad 11/30/56
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.C.S.

Docket Copy
Surname:
Anderson
Houk
Selfridge
Johnson

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

DEC - 3 1956

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

Re: Docket No. DMEA-4544-Mica
Johnson Mine Company
Johnson Mine
Ashe County, North Carolina

Dear Mr. Laurence:

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

Copies of memoranda dated November 26 and 27, 1956, by Mr. W. F. Dietrich, USBM, and Mr. N. E. Nelson, USGS, respectively, relating to the project are enclosed.

The applicant has furnished an adequate map showing metes and bounds of the property lines. Although the applicant has indicated the location of the proposed work on this map, it will be appreciated if a contract is recommended to indicate on the examining engineers' sketch a tie-in of the proposed workings to the nearest property line or corners.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Approved:

/s/ James Paone (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

Enclosures 4

WCAnderson:gad 11/30/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.S.

IN REPLY REFER TO:

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

A

RECEIVED
NOV 28 1956
D.M.E.A.

November 27, 1956

Re: DMEA 4544
Johnson Mine Company
Johnson Mine
Ashe County, N. C.
$10,140 - Mica

Memorandum

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

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

Subject: Review of application

The applicant (a partnership) requests assistance in doing further work on the pegmatite on which bulldozing was done under contract Idm-E920. That work revealed nothing of interest mica-wise and the work was stopped.

Probably the applicants have done work since as a 40-foot shaft and 30 feet of drifting is mentioned. Mica is said to have been recovered but how much is not said.

If the new work has been done a re-examination is warranted. Perhaps the 40-foot shaft is part of the 70-foot shaft sunk in 1952-53.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

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

RECEIVED NOV 27 1956 D.M.E.A.

November 26, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4544 (mica)

Applicant: Johnson Mine Company

Name and Location of Property: Johnson Mine, Ashe County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 11/20/56

Comments:

1. This is the same prospect as covered by DMEA 4067, Idm-E920, which contract was terminated because of lack of pegmatite.

2. Applicant does not state whether additional work has uncovered any additional mica-bearing material.

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

DMEA 4047

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

November 19, 1956

Johnson Mine Company
c/o Mr. S. B. Lacey, Jr.
Newland, N. C.

Subject: DMEA-4544
Johnson Mine

Dear Mr. Lacey

Your application for exploration assistance, dated November 12, 1956 submitted to our office at Knoxville, has been assigned Docket Number DMEA-4544 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. Knoxville, Tennessee

Code 600

5816