DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2665

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION PROJECT

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

Copies to USBM, USGS, and Region VII.

To:	Code 600, Rm. 4637	Date	8-22-52
To:	Robertson	Date	8/24/52
To:	Op Com	Date	10-27-52
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CONTROLLED DOCUMENT

FILE COPY
SURNAME:

Robertson
Houk
Hedges
Fuller
Miller

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

OCT 28 1952

Mr. C. M. Dayton
Green Mountain, North Carolina

Subject: Docket No. DMEA-2665 - Mica
Narrow Ridge Mine
Yancey County, North Carolina

Dear Mr. Dayton:

Your application for exploration assistance at the Narrow Ridge Mine in Yancey County, North Carolina, has been reviewed by the Defense Minerals Exploration Administration.

The use of Government funds in an exploration project is considered justified only if evidence is available to show that the project has a reasonably good chance of resulting in the discovery or development of strategic minerals in sufficient quantity to significantly improve the mineral supply for National Defense.

The evidence that you have submitted, and other available information, does not show that the probability of making a significant discovery of strategic mica is sufficiently encouraging to justify Government participation in the proposed work; therefore, your application for assistance is denied.

Your interest in the Defense Minerals Exploration Administration's program to aid the mineral supply for National Defense is appreciated.

Sincerely yours,

C. O. Mittendorf
Administrator

10-28-52

JTRobertson:gad 10/24/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

Robertson
Houk
Miller

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

October 24, 1952

Memorandum

To: Chairman, Operating Committee

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2665 - Mica
Narrow Ridge Mine
Yancey County, North Carolina

Re: A recommendation of a denial of exploration assistance for the subject mine. (Amount applied for is $1,580)

The Narrow Ridge Mine was examined by Kefton H. Teague, USGS and Lawrence E. Shirley, USBM, Field Team of Region VII. Their report, dated October 10, 1952, points out that the quality of the mica showings are poor and in their opinion little of it will be suitable for stockpiling.

In view of the adverse field team report, the Nonmetallic Minerals Division concurs in a denial of this application for exploration assistance.

Jasper T. Robertson
Nonmetallic Minerals Division

JTRobertson:gad
Copy to: Adm. R. File
Docket File
Mr. Houk

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

October 23, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2665, Mica, Narrow Ridge Mica Mine,
Yancey County, Green Mountain, North Carolina

I concur in the field team's recommendation for denial of subject application on the basis of the poor quality of the mica.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 23 1952

IN REPLY REFER TO:
G-MD-CNM

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

October 21, 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2665 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: C. M. Deyton, Green Mountain, North Carolina.
Name of property: Narrow Ridge mine.
Location of property: 1.4 miles SE of Green Mountain, Yancey County, North Carolina.
Date of field team report: October 10, 1952.
Authorship of field team report: K. H. Teague and L. E. Shirley.
Field team's recommendation:
Deny application, because little mica suitable for stockpiling could be obtained from this deposit.
Comments: None
ACTION SUGGESTED: Follow field team's recommendation and deny application.

R. E. Van Alstine
R. E. Van Alstine

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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OCT 22 1952

Docket

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1952

Room 13, Post Office Building
Knoxville 2, Tennessee

October 14, 1952

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region 7

Subject: DMEA-2665, Narrow Ridge Mine. Field Examination Report

Transmitted herewith are 4 copies of the above subject examination. The Field Team concurs in the denial of this application.

Wm. A. Beck, Acting
Executive Officer, DMEA
Region 7

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

Reviewed by
DMEA OPERATING COMMITTEE

9-24-52
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2665, NARROW RIDGE MINE (mica)

Applicant: C. M. Deyton, Green Mountain
Y ancey County, North Carolina

By

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

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

October 10, 1952

Reviewed by
DMEA OPERATING COMMITTEE
9-24-52
(date)
Docket

Report of Field Examination on

DMEA-2665 (mica)

NARROW RIDGE MINE
Applicant: C. M. Deyton, Green Mountain, N.C.

Evidence available at this place does not indicate that a significant deposit of strategic mica occurs here; therefore, the application for exploration assistance should be denied.

This deposit was examined on October 6, 1952. Mr. Deyton accompanied the Field Team on the examination and four hours were spent on the property.

The Narrow Ridge Mine is located along the crest of Narrow Ridge, 1.4 airline miles S 47° E., of Green Mountain, Yancey County North Carolina. An all weather road is within one mile of the mine and a steep sled road connects to the mine.

Mr. Deyton owns the property on which this application was made; however, he has had little experience in mining.

The pegmatite at this place has been worked by a 20-foot vertical shaft, a 35-foot crosscutting adit and a recent crosscutting bulldozer cut. The adit trends N 35° W and is about 30 feet lower than the outcrop. The new bulldozer cut is in a N 40° W direction, 20 feet deep and 50 feet long. The shaft and adit work was probably done at least 35 years ago; the bulldozer work has been done within the last year.

The exposed pegmatite is from 8 to 36 inches thick, unzoned, with mica generally on the footwall. It trends from N 10° - 30° E, dipping 30° - 50° SE. It is composed of medium coarse plagioclase feldspar, small quartz, and muscovite and biotite mica.

The pegmatite is in hornblende gneiss, conformable in strike and dip to the pegmatite. Both contacts of the pegmatite are zones of movement; also the pegmatite appears to have been disturbed since its emplacement.

Mica exposed in the pegmatite is generally hard, clear, and dark rum in color. Much of it is very wavy, and all is very brittle, craked and ruled. Some blocks up to 7 inches across are exposed, but they are satisfactory only for scrap. Very little pattern mica could be obtained from this place. Because of the color and broken and cracked nature of the mica, the Field Team is of the opinion that little mica suitable for stockpiling could be obtained from this deposit, therefore, the loan should be denied.

October 10, 1952

K. H. Teague, USGS
L. E. Shirley, USBM

FILE COPY
SURNAME:

Robertson
Johnson
Gillo
Kinnel

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

SEP 25 1952

Mr. C. M. Dayton
Green Mountain, North Carolina

Subject: Docket No. DMEA-2665 - Mica
Barrow Ridge Mine
Yancey County, North Carolina

Dear Mr. Dayton:

Your application is being referred to Mr. Robert A. Lawrence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for further information.

Your interest in the exploration program is appreciated.

Sincerely yours,

(signed) FRANK E. JOHNSON (for)
~~C. O. Mittendorf~~

ACTING Administrator

P.H.
9-25-52

JTRobertson:gad 9/15/52

Copy to: Admin. Reading File
Docket File
Field Team, Region VII (2)
Operating Committee (2)
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

Robertson
Houk
JS Johnson

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

SEP 25 1952

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

Subject: Docket No. DMEA-2665 - Mica
Narrow Ridge Mine
Yancey County, North Carolina

Dear Mr. Laurence:

A field team review is requested for the above-referred exploration assistance application, and if deemed necessary, a field examination may be made of the mine.

If a project should be recommended, please secure from the applicant adequate description of the land involved, and show on a sketch map the dimensions of proposed trench and indicate its location with respect to property boundaries.

Enclosed find the memoranda on the subject by the Bureau of Mines and the Geological Survey.

Sincerely yours,

Ernest Wm. Ems

J.N. 9-25-52

ACTING Chairman, Operating Committee

Approved:

C. H. Johnson
Member, Bureau of Mines

A. R. Kinkel Jr.
Member, Geological Survey

JTRobertson:gad 9/15/52

Copy to: Admin. Reading File
Docket File
Operating Committee (2)
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

Enclosures 2

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

September 19, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2665, Mica, Narrow Ridge Mine, Yancey County, North Carolina

No data are available in this office on subject property. It is located in a general area in which ruby mica is known to be the characteristic variety. On the basis of the applicant's description of present exposures, a field team investigation is recommended.

W. F. Dietrich

W. F. Dietrich

OCT 21 1952

IN REPLY REFER TO:
G-MD-CNM

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

August 25, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2665 (Mica)

To: L. W. Houk, DMEA
From: P. L. Weis, U. S. Geological Survey
Applicant: C. M. Deyton
Name of property: Narrow Ridge Mine
Location of Property: Yancey County, North Carolina
Estimated cost of project: $1,580
Summary of applicant's proposal: To widen and deepen present open cut by bulldozing.

Sources of information on applicant's property: None

Comments: None

RECOMMENDATION: Refer to field team.

Paul L. Weis

Paul L. Weis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

AUG 25 1952

Mr. C. M. Deyton
Green Mountain
North Carolina

Subject: DMEA-2665
Re: Exploration Assistance
Narrow Ridge Mine
August 22, 1952

My dear Mr. Deyton:

The receipt of your application dated May 19, 1952, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2665 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-2665 in any future correspondence relating to your application.

Sincerely yours,

SIGNED

Wingfield Chamberlain
Acting Chief, Operation's
Control and Statistics Division

25451

MF-103
(June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2665
Metal or Mineral
Date Received 8-22-52
Amount $
Participation (Government %)

C. M. Dayton
Green Mountain, N. C.

Narrow Ridge Mine
Yancey County N. C.

Name and address of applicant

Date May 19, 1952.

If you have already filed MF-100, give date filed attached, type of assistance requested Exploration,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. [redacted]

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. attached

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAY 20 1952

2. (*a*) What metals or minerals do you expect to find? Ruby Mica

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

Pegmatite outcrops over a distance of one hundred yards, some mica exposed.

The best mica appears to be in the caved area.

16-64067-2

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

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

(Name of company)	By (Signature of authorized official)
(Date)	(Title)

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—64067-2

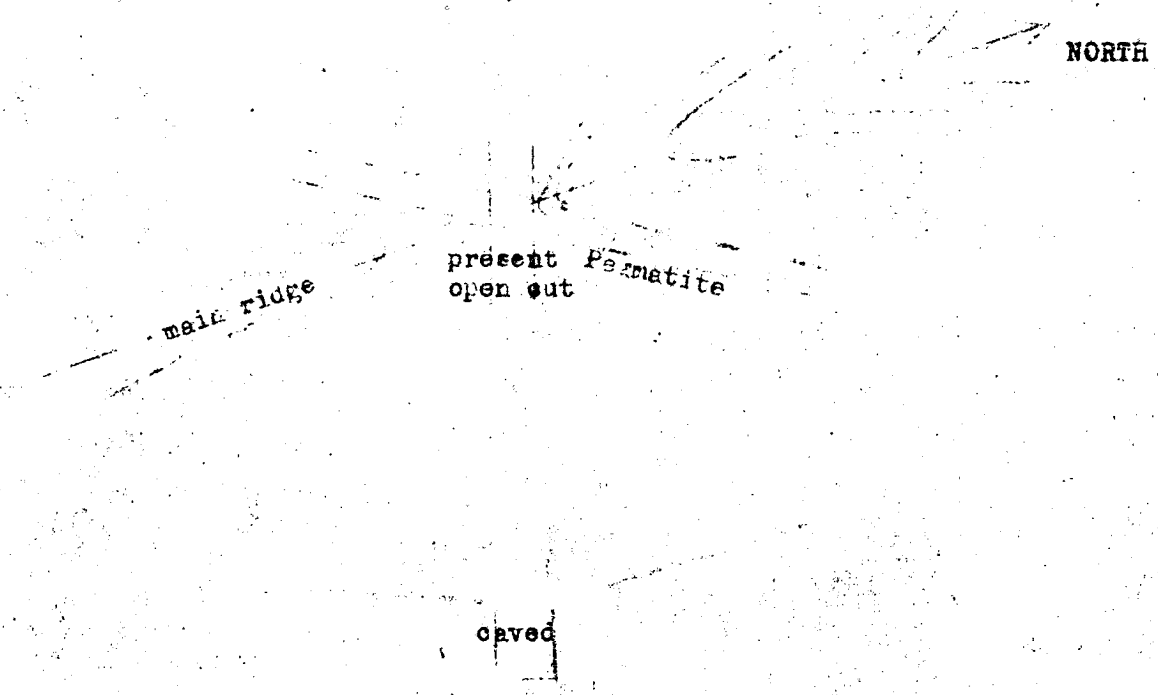
m MF-109

PLICATION for EXPLORATION AID

NARROW RIDGE MICA MINE
Green Mountain N. C.

3. Propose to extend present open cut to width and depth shown in the following sketch.

4.



Section showing proposed bulldozer cut.

5. None

6. None

7. (a) Bulldozer, $10.00 per hour, 100 hours $1,000.00
(b) none
(c) Churn drilling equipment.

8. 2 drillers @$10.00 per day, 10 days 200.00
2 helpers @ $8.00 per day each, 10 days 160.00
1 foreman @ $12.00 per day, 10 days 120.00

9. Explosives, blacksmithing, etc. 100.00
TOTAL COST $1,580.00

10. (a) $200.00
(b) yes.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2665

Date received 8-22-52

C. M. Deyton
Green Mountain N. C.

Narrow Ridge Mine
Yancey County N. C.

Name and address of applicant

Date May 19, 1952.

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? RUBY MICA, sample attached
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☑ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____
   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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AUG 22 1952

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

form MF-108

GENERAL TECHNICAL DATA

NARROW RIDGE MICA MINE
Green Mountain, N. C.

1. Materials produced: Ruby Mica

2. Name of Mine: Narrow Ridge
   a. one shaft, 20 feet, caved
   b. one tunnel, 40 feet, caved. No pumping problems.

3. One and one quarter miles from Green Mt. Station, C. C. & O. Railroad. Green Mountain N. C.

4. Mine is not in operation.

5. Could be in production within 60 days after loan is approved.

6. Associated with mica & feldspar mining for thirty years.

7. No records from previous operations.

8, 9, 10 & 11 Do not apply.

12. Unknown

13. 3/4 mile from graveled road.

14. Ample water supply.

15. 3/4 mile from power line.

16. Labor plentifull.

17. None. Near by farm buildings available for preparing and storing mica.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By C M Dayton
(Signature of authorized official)

(Date)

(Title)

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—63792-1