600

MAY 1 - 1952

Mr. B. M. and Donald Holland
Cullasaja
North Carolina

Subject: Docket No. DMEA-2219 - Mica
Buzzard Knob Mine
Macon County, North Carolina

Gentlemen:

Reference is made to your application for exploration assistance on the subject mine and samples of mica submitted to General Services Administration for qualification as to strategic value.

This office has received the following information from Mr. George A. Purcell, Mica Consultant of the General Services Administration: "The sample consisted of four pieces of trimmed block mica, size grade - 6, and would qualify as stockpile quality except for its color". Since only ruby mica is acceptable for the National Stockpile, your application for exploration assistance is denied.

We wish to thank you for your interest in the defense effort and regret we are unable to give you exploration assistance on this property.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

LGHOUK:mp 4/24/52
cc: Docket File
Field Team, Region VII (2)
Adm. Reading File
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk
Operating Committee

FEDERAL SUPPLY SERVICE
UNIT 2, 7TH FLOOR
34 EXCHANGE PLACE
JERSEY CITY, N.J.

APRIL 18, 1952

MR. LAWRENCE G. HOUK, ACTING CHIEF
NON-METALLIC MINERALS DIVISION
DEFENSE EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SUBJECT: DOCKET DMEA-2219 MICA, BUZZARD KNOB PROSPECT,
FRANKLIN MINING DISTRICT, NORTH CAROLINA.

DEAR MR. HOUK:

REFERENCE IS MADE TO YOUR LETTER TO MESSRS. B.M. & DONALD HOLLAND DATED FEBRUARY 6, 1952, REQUESTING THEM TO FORWARD TO THE WRITER SAMPLES OF MICA FROM THE CAPTIONED PROSPECT TO DETERMINE IF OF ACCEPTABLE STOCKPILE QUALITY.

THE REQUESTED SAMPLES WERE ENCLOSED WITH MR. B.M. HOLLAND'S LETTER DATED APRIL 12, 1952.

THE SAMPLE CONSISTED OF FOUR PIECES OF TRIMMED BLOCK MICA SIZE GRADE 6 AND WOULD QUALIFY AS STOCKPILE QUALITY EXCEPT FOR ITS COLOR. THE COLOR IS WHAT IS GENERALLY CALLED "RUM RUBY" BUT SIMILAR MICA IS REFERRED TO AS "BROWNISH ALIVE" IN GEOLOGICAL SURVEY PROFESSIONAL PAPER 225.

RECENT REPORTS FROM THE BUREAU OF STANDARDS ON SAMPLES OF MICA OF SIMILAR COLOR CLASS THE MICA AS "NON-RUBY BY A CONSIDERABLE MARGIN". THEREFORE, SINCE STOCKPILE SPECIFICATION P-32A COVERS RUBY MICA ONLY, MICA AS REPRESENTED BY THE SAMPLES SUBMITTED WOULD NOT BE ACCEPTABLE FOR THE NATIONAL STOCKPILE.

FOR YOUR INFORMATION THERE IS ENCLOSED SAMPLES RECEIVED FROM MR. HOLLAND AND SAMPLES OF THE MICA CLASSED AS "NON-RUBY" BY THE BUREAU OF STANDARDS.

VERY TRULY YOURS,

G. A. PURCELL
MICA CONSULTANT

GAP:EK

CC: MR. HOUK
MR. PURCELL
FILE

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

January 31, 1952

Memorandum

To: Non-metallic Minerals Division, DMEA

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

Subject: Sierman's supplemental information on Holland's DMEA-2219 application on the Buzzard Knob prospect, Franklin Mining District, North Carolina.

I concur with the Geological Survey's suggestion that the applicant should be asked to submit a representative sample from the Buzzard Knob prospects in order to ascertain if it is ruby mica of acceptable stockpile quality and grade.

Signed

W. F. DIETRICH

WFDietrich/rk

Copy to: Mr. Houk - DMEA

January 31, 1952

Memorandum

To: Non-metallic Minerals Division, DMRA

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

Subject: Sierens's supplemental information on Holland's DMRA-2219 application on the Buzzard Knob prospect, Franklin Mining District, North Carolina.

I concur with the Geological Survey's suggestion that the applicant should be asked to submit a representative sample from the Buzzard Knob prospects in order to ascertain if it is ruby mica of acceptable stockpile quality and grade.

W. F. DIETRICH

WFDietrich/rk

Copy to: Minerals Division
Ceram. & Fert. Mat. Br.
F I L E S
Mr. Houk

IN REPLY REFER TO:

G-MD-DHK

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

January 23, 1952

Memorandum

To: Non-Metallic Minerals Division, DMEA

From: Donald H. Kupfer, U. S. Geological Survey

Subject: Siersma's supplemental information on Holland's DMEA-2219 application on the Buzzard Knob prospect, Franklin Mining District, North Carolina.

The property is 7½ miles southeast of Franklin, not southwest as stated in the application. This is in the vicinity of the Russell mine which the Colonial Mica Corporation records show produced 56 pounds of green sheet and punch mica during World War II. We have no data on the Buzzard Knob prospect, but other prospects in the area contain green mica.

The applicant should be asked to submit a representative sample of mica from the Buzzard Knob prospects.

Donald H. Kupfer

DHKupfer:jeh
G-1/23/52
cc: Director's reading file 4212
Branch " " "
DMEA
Kupfer G-228, GS Bldg.
Jahns

December 26, 1951

Nonmetallics Mineral Div.

Donald H. Kupfer

B. M. Holland's
2219

Buzzard Knob Mine

Reported to be 7½ miles SW of Franklin, Macon County, North Carolina

Is this the John Russell mine 7½ miles SE of Franklin—it sounds like it?

WTD

November 26, 1951

Memorandum

To: Mr. G. A. Josephson - USGS
Interior Building - Room 3510

Mr. G. J. Norton - [illegible]
General Services Building - Room G-228

From: Administrator
Defense Minerals Exploration
Administration

Subject: Docket No. DMA - 2219
S. [illegible] Donald Holland
Exploration Project Application

Attached hereto is the complete subject Docket containing Form DF-103, Application for Aid for an Exploration Project, together with attachments.

Please review this data and return it together with your findings and recommendations to this office.

Enclosure

FLKnouse/meb
cc to: Adm.Reading File
Reports & Records
Mr. Mittendorf
FLKnouse
Docket

FILE COPY
SURNAME:

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

MAY 1 1952

Houk
Schutz
Norton
Lemmon
Hedges
Johnson

Mr. B. M. and Donald Holland
Cullasaja
North Carolina

Subject: Docket No. DMEA-2219 - Mica
Buzzard Knob Mine
Macon County, North Carolina

Gentlemen:

Reference is made to your application for exploration assistance on the subject mine and samples of mica submitted to General Services Administration for qualification as to strategic value.

This office has received the following information from Mr. George A. Purcell, Mica Consultant of the General Services Administration: "The sample consisted of four pieces of trimmed block mica, size grade - 6, and would qualify as stockpile quality except for its color". Since only ruby mica is acceptable for the National Stockpile, your application for exploration assistance is denied.

We wish to thank you for your interest in the defense effort and regret we are unable to give you exploration assistance on this property.

Sincerely yours,

C. O. Mittendorf (for) J.N. 5-1-52

Acting Administrator
Defense Minerals Exploration
Administration

LGHOUK:mp 4/24/52
cc: Docket File
Field Team, Region VII (2)
Adm. Reading File
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

Operating Committee

GENERAL SERVICES ADMINISTRATION

FEDERAL SUPPLY SERVICE
UNIT 2, 7TH FLOOR
34 EXCHANGE PLACE
JERSEY CITY, N.J.

APRIL 18, 1952

MR. LAWRENCE G. HOUK, ACTING CHIEF
NON-METALLIC MINERALS DIVISION
DEFENSE EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SUBJECT: DOCKET DMEA-2219 MICA, BUZZARD KNOB PROSPECT, FRANKLIN MINING DISTRICT, NORTH CAROLINA.

DEAR MR. HOUK:

REFERENCE IS MADE TO YOUR LETTER TO MESSRS. B.M. & DONALD HOLLAND DATED FEBRUARY 6, 1952, REQUESTING THEM TO FORWARD TO THE WRITER SAMPLES OF MICA FROM THE CAPTIONED PROSPECT TO DETERMINE IF OF ACCEPTABLE STOCKPILE QUALITY.

THE REQUESTED SAMPLES WERE ENCLOSED WITH MR. B.M. HOLLAND'S LETTER DATED APRIL 12, 1952.

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FOR YOUR INFORMATION THERE IS ENCLOSED SAMPLES RECEIVED FROM MR. HOLLAND AND SAMPLES OF THE MICA CLASSED AS "NON-RUBY" BY THE BUREAU OF STANDARDS.

VERY TRULY YOURS,

G. A. PURCELL
MICA CONSULTANT

GAP:EK

B. M. & DONALD HOLLAND
CULLASAJA, N. C.

April 12, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 15 1952

Mr. George A. Purcell
Federal Supply Service
Gen. Services Administration
Harborside Wharf
Jersey City, New Jersey.

Re: Docket No. DMEA-2219 MICA
Buzzard Knob Prospect
Franklin Mining District
North Carolina.

Dear Mr. Purcell:

The Defense Minerals Exploration Administration, in connection with our loan application, has requested that we address samples from the above mine to you. These are enclosed.

Because this covers an exploratory application, and since the mine is not yet in operation, we are only submitting "surface" samples. However, we feel sure they will serve the purpose - "to ascertain if the ruby mica is of acceptable stockile quality".

It is requested that your report be forwarded to Lawrence G. Houk, Acting Chief, Non-Metallics Minerals Division, Defense Exploration Administration, Washington 25, D. C.

Sincerely yours,

B. M. & DONALD HOLLAND

BMH:em

By B. M. Holland

CC: Mr. Lawrence G. Houk

FILE COPY
SURNAME:

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

FEB 6 1952

Mr. B. M. and Donald Holland
Cullasaja, North Carolina

Subject: Docket No. DMEA-2219 - Mica
Buzzard Knob Prospect
Franklin Mining District
North Carolina

Gentlemen:

Receipt is acknowledged of your letter of January 15, 1952, supplying additional information on the Buzzard Knob Prospect in the Franklin Mining District of North Carolina.

Kindly send a representative sample of the mica from the Buzzard Knob Prospect to Mr. George A. Purcell, Federal Supply Service, General Services Administration, Hanborside Warehouse, Jersey City, New Jersey.

The representative samples should weigh at least 1/4 of a pound, and should be fully trimmed. It should be 1/16 to 1/8 inch in thickness. The purpose of this examination is to ascertain if the ruby mica is of acceptable stockpile quality.

Sincerely yours,

SIGNED

Lawrence G. Houk, Acting Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

LGHouk:gad
2/5/52

Copy to: Mr. George A. Purcell
Federal Supply Service
General Services
Administration
Hanborside Warehouse
Jersey City, N. J.

Copy to: Admin. Reading File
Mr. Norton, G-228, GSA Bldg.
Mr. Dietrich, 3526
Docket File
Mr. Houk

2-6-52
S.O.

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

January 31, 1952

Memorandum

To: Non-metallic Minerals Division, DMEA

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

Subject: Siersma's supplemental information on Holland's DMEA-2219 application on the Buzzard Knob prospect, Franklin Mining District, North Carolina.

I concur with the Geological Survey's suggestion that the applicant should be asked to submit a representative sample from the Buzzard Knob prospects in order to ascertain if it is ruby mica of acceptable stockpile quality and grade.

W. F. Dietrich

W. F. DIETRICH

IN REPLY REFER TO:

G-MD-DHK

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

January 23, 1952

Memorandum

To: Non-Metallic Minerals Division, DMEA

From: Donald H. Kupfer, U. S. Geological Survey

Subject: Siersma's supplemental information on Holland's DMEA-2219 application on the Buzzard Knob prospect, Franklin Mining District, North Carolina.

The property is 7½ miles southeast of Franklin, not southwest as stated in the application. This is in the vicinity of the Russell mine which the Colonial Mica Corporation records show produced 56 pounds of green sheet and punch mica during World War II. We have no data on the Buzzard Knob prospect, but other prospects in the area contain green mica.

The applicant should be asked to submit a representative sample of mica from the Buzzard Knob prospects.

Donald H. Kupfer

Donald H. Kupfer

NATIONAL MINERS' ASSOCIATION

HIGHLANDS RD. AT MAIN ST.

FRANKLIN, NORTH CAROLINA

A CONFEDERATION OF AMERICAN MINERAL MINERS

ANDREW W. REID
CHAIRMAN
BOARD OF DIRECTORS

ROY H. FOUTS
SECRETARY

HARRY PATTON
TREASURER

FRANK SIERSMA
CHAIRMAN LOCAL
MINING COMMITTEE

JUDGE C. M. TRAMMELL
CONSULTANT
717 BARR BUILDING
WASHINGTON 6, D. C.

January 15, 1952

Mr. Lawrence G. Houk
Acting Chief
Non Metallics Minerals Div.
D. M. E. A., Washington, D.C.

Re: Docket DMA-2219
Buzzard Knob Mine

Dear Mr. Houk:

Mr. Beulon Holland has supplied me with the additional information, included herein, in connection with his application for an exploratory loan. I trust it will prove sufficient for you to further process same.

We have prepared a number of applications for our members and in the early days the information submitted was about all that was required until the time of examination by your Field Team. However, we have had several requests for additional data and can now understand the situation.

We feel very confident that the Franklin Mining District contains a large number of deserving prospects and we wish to assist all who have made applications. Should you have any others which you do not believe are sufficiently complete we will be glad to secure and forward to you the desired information.

Sincerely yours,

Frank Siersma

Frank Siersma
Executive Secretary

FTS:em

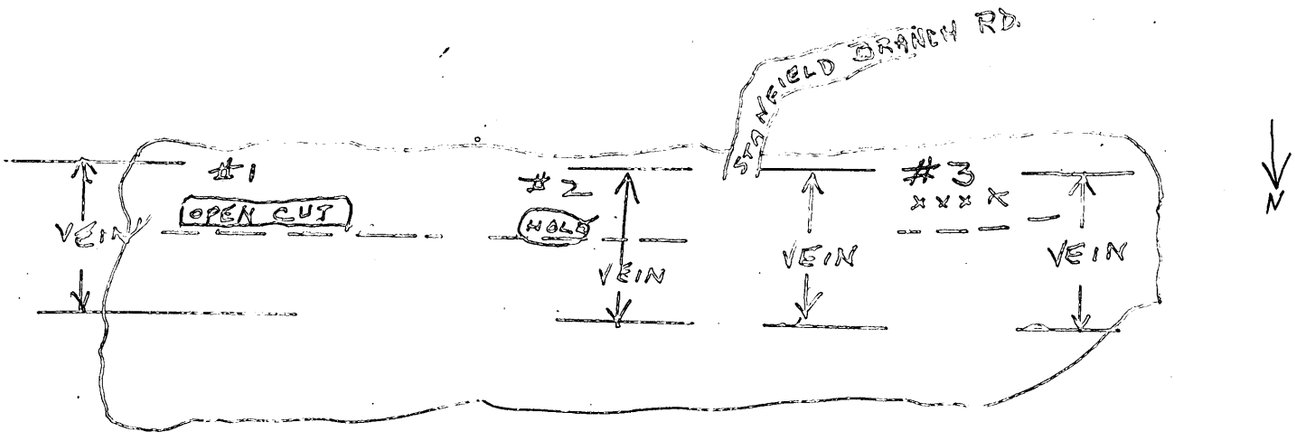
DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
JAN 21 10 18 PM '52

MF-103 B. M. & DONALD HOLLAND CULLASAJA, N.C. BUZZARD KNOB MINE 1/15/52

ADDITION INFORMATION REQUESTED (1/4/52) BY LAWRENCE G. HOUK, ACTING CHIEF, NON METALLIC MINERALS DIVISION, DEFENSE MINERALS EXPLORATION ADMINISTRATION.

DOCKET NUMBER - DMA-2219 - MICA

4. SKETCH OF EXISTING MINE WORKINGS AND PROPOSED EXPLORATORY WORK:



PAST WORK CONSISTED OF:

PROJECT #1 - open cut & part tunnel; 10 feet deep, 12 feet wide, 15 feet long. Pegmatite exposed to a width of 8 feet.

PROJECT #2 - hole - 5 feet square and 6 feet deep; pegmatite exposed to a width of about 5 to 6 feet.

PROJECT #3 - no past work done but evidence (surface) of mica appears and should warrant exploration.

Projects are about 250 yards apart.

PROPOSED EXPLORATORY WORK:

Dozer-trenching cuts (- - -) will be placed at about as appear on sketch. The pegmatite continues across this property in approximately the location as noted. Because #1 has had the most work done in the past it is expected to explore that location first, continuing on to #2 and #3 if successful. Present owner states that #1 released blocks of ruby mica which sheeted into sizes up to 3" x 4" at depth reached; although he has retained no records of sales. Applicant is certain of quality (strategic type) and is sure exploration will result in uncovering commercial ore bodies.

6. Only facilities to be purchased will consist of hand tools; bulldozer and air compressor will be rented (see "Cost of Project" attached to application).

7. Operating equipment; dozer, air compressor, jeep, to be rented; cost to be charged to project, appears in "Cost of Project".

8. Itemized list of labor, etc., appears in "Cost of Project". After further examination of proposed work it is found that Applicant can dispense with the services of a Superintendent-Engineer, thus reducing cost of Project #1 by $480.00; #2 by 200.00 and #3 by $80.00.

9. Estimated cost does not include or require:- engineering, assaying, power, water or utilities. Cost of materials and supplies (misc. hand tools) for Project #1, is $100.00; accounting (payroll taxes, office etc.) $125.00.

THIS IS NOT THE JOHN RUSSELL MINE; said mine is located about 1/2 mile west of the Buzzard Knob Mine and on the same mica lead.

(Both the John Russell Mine and the Buzzard Knob Mine are owned by John Russell; applicant has lease only on the Buzzard Knob Mine).

- - - - -

JAN 21 10 18 AM '52
DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.

605 FILE COPY
SURNAME:

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

JAN 4 1952

Mr. B. F. and Donald Holland
Cullasaja, North Carolina

Re: DMA 2219 - Mica
B. F. Holland
Buzzard Knob Mine

Dear Mr. Holland:

Your application for aid for an exploration project on a mica deposit in Macon County has been reviewed in this office.

The information you have submitted is not in sufficient detail, nor is it properly assembled, to enable the Defense Minerals Exploration Administration to properly evaluate your proposal. Question 4 has not been answered, a rough sketch map showing size pegmatite and portion to be exposed by bulldozing should be submitted. Questions 6, 7, 8 and 9 should be answered separately. A summary of project costs, such as you have given, may be added.

Your statement that over the past 25 years there has been prospecting and operation on this mine, however, you do not describe any openings. A list of the shafts, drifts, and crosscut with their length should be shown on your sketch. The statement that blocks up to 100 pounds have been found, that sheeted into large sizes is inadequate. Kindly supply the production data, the amount of various grades, and qualities to whom sold, and amount received.

The proposed expenditure for supervision is disproportionately large, as compared to labor involved and to total cost of the project. Can you justify these high costs?

Has this mine ever been known as the John Russell mine?

When this office has received the above information, we shall evaluate your proposal.

Sincerely yours,

C. O. Mittendorf (for) cc 1-4-52

Lawrence G. Houk, Acting Chief
Non Metallic Minerals Division
Defense Minerals Exploration
Administration.

LGHouk/hmj
1-2-51
cc to: Adm. R. File
Mails and Files
Mr. Mittendorf
Mr. Houk
Mr. Dietrich
Mr. Norton
Reg. VII (2) Docket

BY

December 26, 1951

Nonmetallics Mineral Div.

Donald H. Kupfer

B. M. Holland's
2219 Buzzard Knob Mine

Reported to be 7½ miles SW of Franklin, Macon County, North Carolina

Is this the John Russell mine 7½ miles SE of Franklin--it sounds like it?

Donald H. Kupfer
Concur: W. F. Deitrick

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

410

Docket 2235

November 26, 1951

Memorandum

To: Mr. ~~G. W.~~ Josephson - USBM
Interior Building - Room ~~3510~~

Mr. J. J. Norton - USGS
General Services Building - Room G-228

From: ACTING Administrator
Defense Minerals Exploration
Administration

Subject: Docket No. DMA - 2219
B. M. & Donald Holland
Exploration Project Application

Attached hereto is the complete subject Docket containing Forms MF-103, Application for Aid for an Exploration Project, together with attachments.

Please review this data and return it together with your findings and recommendations to this office.

Enclosure

FILE COPY
SURNAME:

410

FLKnouse
Mittendorf
(for)

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

November 26,1951

Memorandum

To: Mr. G. W. Josephson - USBM
Interior Building - Room 3510

Mr. J. J. Norton - USGS
General Services Building - Room G-228

From: ACTING Administrator
Defense Minerals Exploration
Administration

Subject: Docket No. DMA - 2219
B. M. & Donald Holland
Exploration Project Application

Attached hereto is the complete subject Docket containing Forms MF-103, Application for Aid for an Exploration Project, together with attachments.

Please review this data and return it together with your findings and recommendations to this office.

C. O. Mittendorf

n.s
R+R

Enclosure

FLKnouse/meb
cc to: Adm.Reading File
Reports & Records
Mr. Mittendorf
FLKnouse
Docket

B+

Mr. B. M. Holland
Cullasaja, North Carolina

Subject: DMA-2219
Re: Exploration Loan
Buzzard Knob Mine

My dear Mr. Holland:

This will acknowledge receipt of your application dated November 7, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2219 and referred to the Nonmetallics Branch.

Kindly refer to DMA-2219 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

2463

Form MF-103
(Revised 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. dma 2219
Metal or Mineral
Date Received 11-9-51
Amount $
Participation (Government %)

RECEIVED NOV 9 1951

BUZZARD KNOB MINE

Name and address of applicant

B. M. & DONALD HOLLAND
CULLASAJA
NORTH CAROLINA

Date 11/7/51

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

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.

   (*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. attached

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

   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. 4 copies attached

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

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. NONE

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? 10%

    (*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)? Yes

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.

B. M. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

Partner
(Title)

11/7/51
(Date)

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

MF-103 B. M. & DONALD HOLLAND CULLASAJA, N.C. BUZZARD KNOB MINE 11/7/51

1. LEGAL DESCRIPTION OF PROPERTY (same as area on which exploration is to be conducted). copy of lease;

THIS LEASE AGREEMENT, made and entered into this the 1st day of May, 1951, by and between John M. Russell of Macon County, North Carolina, party of the first part, hereinafter designated as Lessor, and B. M. Holland and Donald Holland, of Macon County, North Carolina, parties of the second part, hereinafter designated as lessees, WITNESSETH:

That the said party of the first part does hereby lease unto the parties of the second part, their heirs and assigns, the minerals and privileges necessary for the mining and removal of said minerals upon a tract of land in Ellijay Township, Macon County, North Carolina, described as follows:

BEGINNING on a chestnut oak stump, Frank Holland's and John M. Russell's corner, in a line of Grant No. 2686; runs N. 10 E. 55 poles to a mountain oak in Frank Holland's line; thence W. 120 poles to a chestnut; thence S. 47 poles to a bucjeye in branch; thence N. 87 E. 18 poles to a chestnut in an old line; thence S. 61 E. 62 poles to a stake on lower bank of road; thence with meanders of road N. 22 E. 8 poles to a stake; thence N. 37 E. 12 poles to a stake; thence N. 33 E. 10 poles to the BEGINNING.

(Contains 37 acres more or less).

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

1. Lessees agree to pay lessor a royalty of twelve and one-half (12½%) percent of the gross selling price of all minerals recovered from said property, and all royalty payments shall be due and payable within ten days from the date of sale.

2. Lessees agree to keep a record of all sales which shall be open for inspection of lessor at all times.

3. The duration of this lease shall be twelve months from the date hereof.

4. As a part of this lease, lessor gives the lessees the necessary right to build such trails or roads upon said property as may be necessary for the installation of machinery and the proper operation of mines. Lessees shall have the further right to use such timber and water upon said property as may be necessary in their mining operations.

5. It is agreed and understood between the parties hereto that lessees will begin mining operations within thirty days from the date hereof. If at any time lessees shall discontinue operations for as long as thirty consecutive days, the lessor, at his option, may declare this lease to be terminated and of no further force and effect.

6. That for the consideration of One Dollar, the receipt of which is hereby acknowledged, the party of the first part does hereby give and grant unto the parties of the second part the full and exclusive right to purchase

6. (cont'd)

within twelve months from the date hereof at the price of $500.00 cash, party of the first part to make, execute and deliver to parties of the second part a deed therefor with full covenants of warranty upon the payment of the purchase price of $500.00 as aforesaid.

IN TESTIMONY WHEREOF, the parties hereto have hereunto set their hands and affixed their seals the day and year first above written.

s/ JOHN M. RUSSELL
s/ DONALD HOLLAND
s/ B. M. HOLLAND

ABOVE LEASE RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR MACON COUNTY, NORTH CAROLINA, ON MAY 2, 1951, IN BOOK A-6, PAGE 107.

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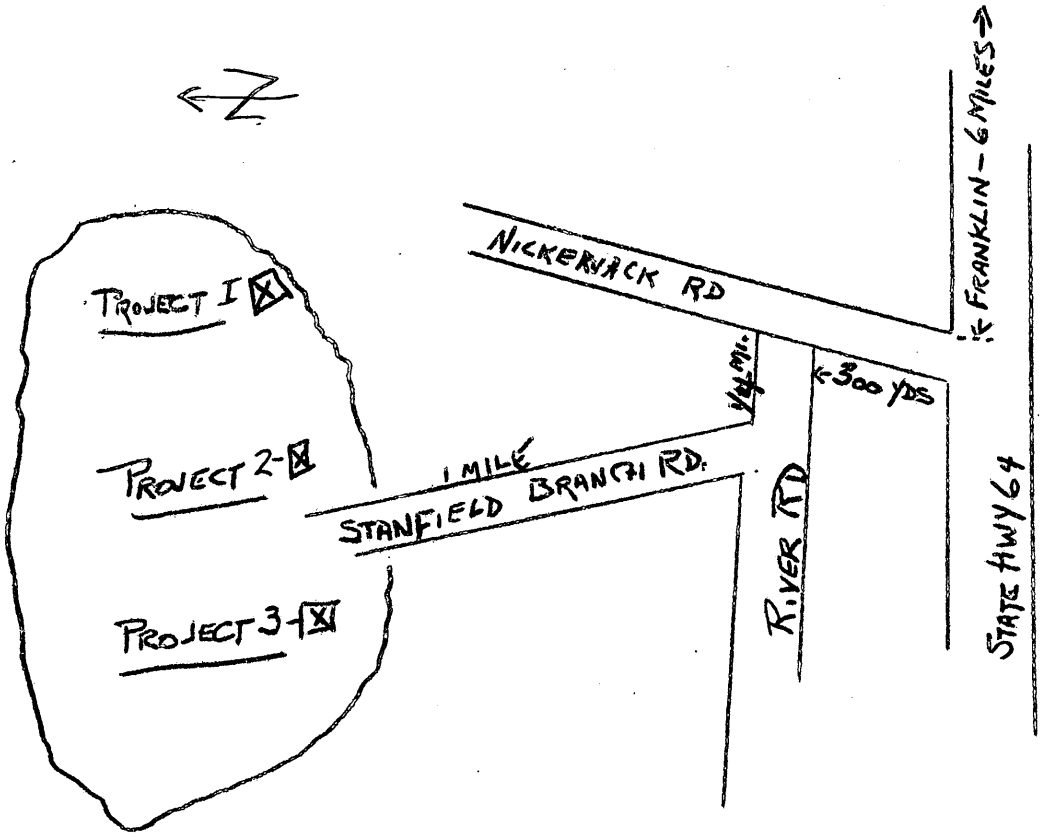

2. Over the past 25 years there has been some prospecting and operation on this property. Excellent quality of hygrade strategic ruby mica has been obtained. Blocks up to 100 pounds have been found, which sheeted into large sizes. The lands lie within the mica pegmatite lead and it is anticipated that large quantities of mica will be released because of this exploratory work.

3. It is proposed to work three (3) projects on this property, as follows:
PROJECT 1 - Dozer-trench for a distance of 200 feet long, 30 feet wide and 15 feet deep; then sink 4 test pits into pegmatite for a depth of 10 feet, to locate best spot to run a tunnel which will be approx. 35 feet long, 6' x 6'. This work will require 35 days to complete.
PROJECT 2 - Dozer-trenching, 75 feet long, 20 feet wide and 10 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.
PROJECT 3 - Dozer-trenching, 35 feet long, 20 feet wide and 10 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.

6. See attached "Cost of Projects".
7. " "
8. " "
9. " "

COST OF PROJECTS:

PROJECT 1 - Rental - Bulldozer, 80 hours @ $10.00 per hour	$ 800.00
" Air Compressor, Jackhammer etc. $1\frac{1}{2}$ months @ $250.00 per month	375.00
" Jeep - 30 days @ $6.00 per day	180.00
Miscellaneous hand tools	100.00
Misc. expenses, payroll tax, office, sampling, etc.	125.00
Superintendent-Engineer, 24 days @ $20.00 per day	480.00
Working Foreman, 35 days @ $15.00 per day	525.00
4 Laborers, 35 days each @ $10.00 per day each	1400.00
TOTAL COST - PROJECT 1 -	$ 3,935.00

- - -

PROJECT 2 - Rental - Bulldozer, 40 hours @ $10.00 per hour	400.00
Miscellaneous hand tools	65.00
Superintendent- Engineer, 10 days @ $20.00 per day	200.00
Working Foreman, 15 days @ $15.00 per day	225.00
2 Laborers, 15 days each @ $10.00 per day each	300.00
Misc. expenses, paroll taxes, office, sampling etc.	65.00
TOTAL COST - PROJECT 2 -	$ 1,255.00

- - -

PROJECT 3 - Rental Bulldozer, 25 hours @ $10.00 per hour	250.00
Misc. Hand Tools	45.00
Superintendent-Engineer, 4 days @ $20.00 per day	80.00
Working Foreman, 12 days @ $15.00 per day	180.00
2 Laborers, 12 days each @ $10.00 per day each	240.00
Misc. expenses, payroll taxes, office, sampling, etc.	55.00
TOTAL COST - PROJECT 3 -	$ 850.00

OPERATION OF THE THREE PROJECTS AT SAME TIME WILL REDUCE TOTAL COST.

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of [illegible], State of [illegible], described in a certain Exploration Project Contract dated ....., 195..., between [illegible],

the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated ..... [illegible], does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this [illegible] day of [illegible], 195[illegible]

John M. Russell

JOHN M. RUSSELL

U. S. GOVERNMENT PRINTING OFFICE 940768

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. dma/2219

Date received 11-9-51

B. M. & DONALD HOLLAND
CULLASAJA
NORTH CAROLINA

BUZZARD KNOB MINE

Name and address of applicant

Date 11/7/51

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? STRATEGIC MICA
   (*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. 7½ miles S.W. of Franklin, N.C.
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Nickerjack
   (*d*) County, State. Macon County, N. C.
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.

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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: 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.

THIS IS AN EXPLORATORY APPLICATION.

10. Production: NONE. PRODUCT ON WILL START UPON COMPLETION OF SAME.

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.

(*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: NONE

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.

B. M. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

11/7/51
(Date)

PARTNER
(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

Form MF-103
(Revised 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. dma 2219
Metal or Mineral
Date Received 11-9-51
Amount $
Participation (Government %)

NOV 9 1951

B. M. & DONALD HOLLAND
CULLASAJA
NORTH CAROLINA

BUZZARD KNOB MINE

Name and address of applicant

Date 11/7/51

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

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.

   (*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. attached

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

   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. 4 copies attached

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

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. NONE

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? 10%

    (*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)? Yes

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.

B. H. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

Partner
(Title)

11/7/51
(Date)

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

1. LEGAL DESCRIPTION OF PROPERTY (same as area on which exploration is to be conducted). copy of lease;

THIS LEASE AGREEMENT, made and entered into this the 1st day of May, 1951, by and between John M. Russell of Macon County, North Carolina, party of the first part, hereinafter designated as Lessor, and B. M. Holland and Donald Holland, of Macon County, North Carolina, parties of the second part, hereinafter designated as lessees, WITNESSETH:

That the said party of the first part does hereby lease unto the parties of the second part, their heirs and assigns, the minerals and privileges necessary for the mining and removal of said minerals upon a tract of land in Ellijay Township, Macon County, North Carolina, described as follows:

BEGINNING on a chestnut oak stump, Frank Holland's and John M. Russell's corner, in a line of Grant No. 2686; runs N. 10 E. 55 poles to a mountain oak in Frank Holland's line; thence W. 120 poles to a chestnut; thence S. 47 poles to a buckeye in branch; thence N. 87 E. 28 poles to a chestnut in an old line; thence S. 61 E. 62 poles to a stake on lower bank of road; thence with meanders of road N. 22 E. 8 poles to a stake; thence N. 37 E. 12 poles to a stake; thence N. 33 E. 10 poles to the BEGINNING.

(Contains 37 acres more or less).

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

1. Lessees agree to pay lessor a royalty of twelve and one-half (12½) percent of the gross selling price of all minerals recovered from said property, and all royalty payments shall be due and payable within ten days from the date of sale.

2. Lessees agree to keep a record of all sales which shall be open for inspection of lessor at all times.

3. The duration of this lease shall be twelve months from the date hereof.

4. As a part of this lease, lessor gives the lessees the necessary right to build such trails or roads upon said property as may be necessary for the installation of machinery and the proper operation of mines. Lessees shall have the further right to use such timber and water upon said property as may be necessary in their mining operations.

5. It is agreed and understood between the parties hereto that lessees will begin mining operations within thirty days from the date hereof. If at any time lessees shall discontinue operations for as long as thirty consecutive days, the lessor, at his option, may declare this lease to be terminated and of no further force and effect.

6. That for the consideration of One Dollar, the receipt of which is hereby acknowledged, the party of the first part does hereby give and grant unto the parties of the second part the full and exclusive right to purchase

6. (cont'd)

within twelve months from the date hereof at the price of $500.00 cash, party of the first part to make, execute and deliver to parties of the second part a deed therefor with full covenants of warranty upon the payment of the purchase price of $500.00 as aforesaid.

IN TESTIMONY WHEREOF, the parties hereto have hereunto set their hands and affixed their seals the day and year first above written.

o/ JOHN M. RUSSELL
o/ DONALD HOLLAND
o/ B. H. HOLLAND

ABOVE LEASE RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR MACON COUNTY, NORTH CAROLINA, ON MAY 2, 1951, IN BOOK A-6, PAGE 107.

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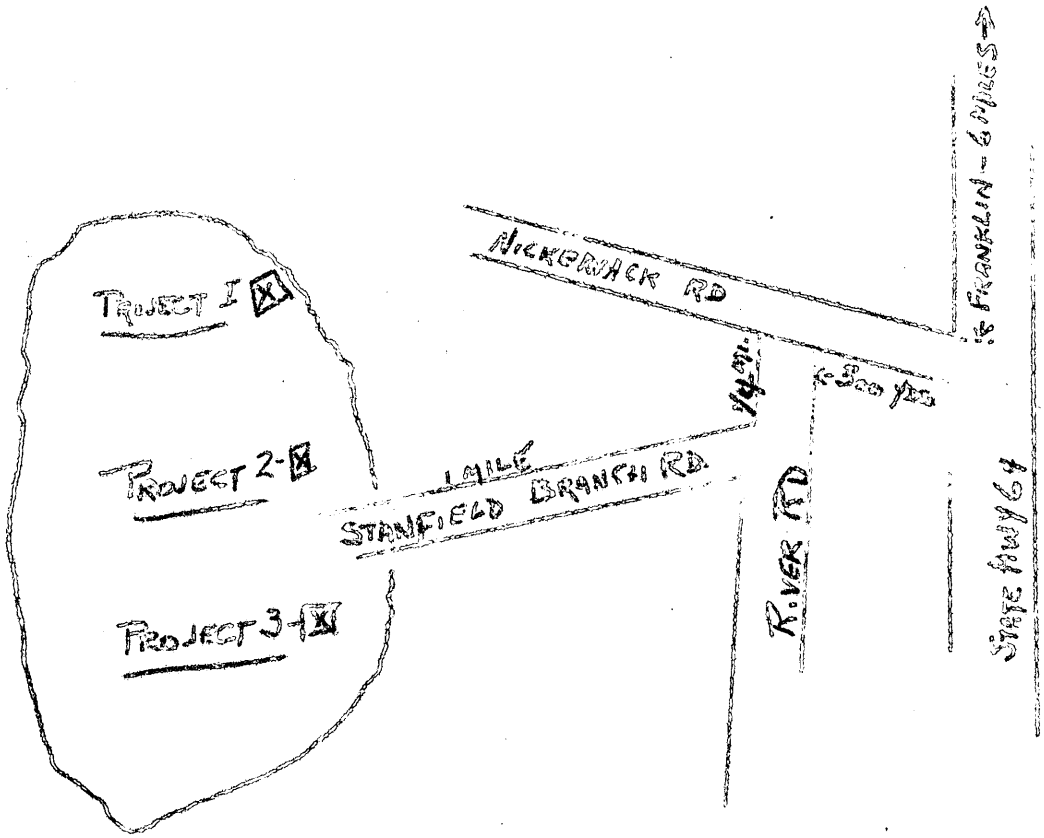


2. Over the past 25 years there has been some prospecting and operation on this property. Excellent quality of hygrade strategic ruby mica has been obtained. Blocks up to 100 pounds have been found, which sheeted into large sizes. The lands lie within the mica pegmatite lead and it is anticipated that large quantities of mica will be released because of this exploratory work.

3. It is proposed to work three (3) projects on this property, as follows:
PROJECT 1 - Dozer-trench for a distance of 200 foot long, 30 feet wide and 15 feet deep; then sink 4 test pits into pegmatite for a depth of 10 feet, to locate best spot to run a tunnel which will be approx. 35 feet long, 6' x 6'. This work will require 35 days to complete.
PROJECT 2 - Dozer-trenching, 75 feet long, 20 feet wide and 10 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.
PROJECT 3 - Dozer-trenching, 35 feet long, 20 feet wide and 10 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.

6. See attached "Cost of Projects".
7. " "
8. " "
9. " "

COST OF PROJECTS:

PROJECT 1 -	Rental - Bulldozer, 80 hours @ $10.00 per hour	$ 800.00
	" Air Compressor, Jackhammer etc. 1½ months @ $250.00 per month	375.00
	" Jeep - 30 days @ $6.00 per day	180.00
	Miscellaneous hand tools	100.00
	Misc. expenses, payroll tax, office, sampling, etc.	125.00
	Superintendent-Engineer, 24 days @ $20.00 per day	480.00
	Working Foreman, 35 days @ $15.00 per day	525.00
	4 Laborers, 35 days each @ $10.00 per day each	1400.00
	TOTAL COST - PROJECT 1 -	$ 3,935.00

- - -

PROJECT 2 -	Rental - Bulldozer, 40 hours @ $10.00 per hour	400.00
	Miscellaneous hand tools	65.00
	Superintendent- Engineer, 10 days @ $20.00 per day	200.00
	Working Foreman, 15 days @ $15.00 per day	225.00
	2 Laborers, 15 days each @ $10.00 per day each	300.00
	Misc. expenses, parolll taxes, office, sampling etc.	65.00
	TOTAL COST - PROJECT 2 -	$ 1,255.00

- - -

PROJECT 3 -	Rental Bulldozer, 25 hours @ $10.00 per hour	250.00
	Misc. Hand Tools	45.00
	Superintendent-Engineer, 4 days @ $20.00 per day	80.00
	Working Foreman, 12 days @ $15.00 per day	180.00
	2 Laborers, 12 days each @ $10.00 per day each	240.00
	Misc. expenses, payroll taxes, office, sampling, etc.	55.00
	TOTAL COST - PROJECT 3 -	$ 850.00

OPERATION OF ALL THREE PROJECTS AT SAME TIME WILL REDUCE TOTAL COST.

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of MACON, State of NORTH CAROLINA, described in a certain Exploration Project Contract dated _____, 195__, between B. M. & DONALD HOLLAND,

the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated MAY 1, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 7th day of NOVEMBER, 1951

John M. Russell

John M. Russell

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

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. dmal 2219

Date received 11-9-51

B. N. & DONALD HOLLAND
CULLASAJA
NORTH CAROLINA

DUZZARD KNOB MINE

Name and address of applicant

Date 11/7/51

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? STRATEGIC MICA
   (*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. 7½ miles S.W. of Franklin, N.C.
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Nickerjack
   (*d*) County, State. Macon County, N. C.
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:
   - [x] Owner.
   - [x] 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.

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: THIS IS AN EXPLORATORY APPLICATION. NONE. PRODUCTION WILL START UPON COMPLETION OF SAME.

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.

(*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: NONE

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.

B. M. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

11/7/51
(Date)

PARTNER
(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

Form MF-103
(Revised 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. DMA 2219
Metal or Mineral
Date Received 11-9-51
Amount $
Participation (Government %)

B. M. & DONALD HOLLAND
CULLASAJA
NORTH CAROLINA

BUZZARD KNOB MINE

Name and address of applicant

Date 11/7/51

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

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.

   (*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. attached

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

   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. 4 copies attached

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

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. NONE

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? 10%

    (*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)? Yes

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.

B. M. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

Partner
(Title)

11/7/51
(Date)

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

1. LEGAL DESCRIPTION OF PROPERTY (same as area on which exploration is to be conducted). copy of lease;

THIS LEASE AGREEMENT, made and entered into this the 1st day of May, 1951, by and between John M. Russell of Macon County, North Carolina, party of the first part, hereinafter designated as Lessor, and B. M. Holland and Donald Holland, of Macon County, North Carolina, parties of the second part, hereinafter designated as lessees, WITNESSETH:

That the said party of the first part does hereby lease unto the parties of the second part, their heirs and assigns, the minerals and privileges necessary for the mining and removal of said minerals upon a tract of land in Ellijay Township, Macon County, North Carolina, described as follows:

BEGINNING on a chestnut oak stump, Frank Holland's and John M. Russell's corner, in a line of Grant No. 2686; runs N. 10 E. 55 poles to a mountain oak in Frank Holland's line; thence W. 120 poles to a chestnut; thence S. 47 poles to a bucjeye in branch; thence N. 87 E. 18 poles to a chestnut in an old line; thence S. 61 E. 62 poles to a stake on lower bank of road; thence with meanders of road N. 22 E. 8 poles to a stake; thence N. 37 E. 12 poles to a stake; thence N. 33 E. 10 poles to the BEGINNING.

(Contains 37 acres more or less).

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

1. Lessees agree to pay lessor a royalty of twelve and one-half (12½%) percent of the gross selling price of all minerals recovered from said property, and all royalty payments shall be due and payable within ten days from the date of sale.

2. Lessees agree to keep a record of all sales which shall be open for inspection of lessor at all times.

3. The duration of this lease shall be twelve months from the date hereof.

4. As a part of this lease, lessor gives the lessees the necessary right to build such trails or roads upon said property as may be necessary for the installation of machinery and the proper operation of mines. Lessees shall have the further right to use such timber and water upon said property as may be necessary in their mining operations.

5. It is agreed and understood between the parties hereto that lessees will begin mining operations within thirty days from the date hereof. If at any time lessees shall discontinue operations for as long as thirty consecutive days, the lessor, at his option, may declare this lease to be terminated and of no further force and effect.

6. That for the consideration of One Dollar, the receipt of which is hereby acknowledged, the party of the first part does hereby give and grant unto the parties of the second part the full and exclusive right to purchase

6. (cont'd)

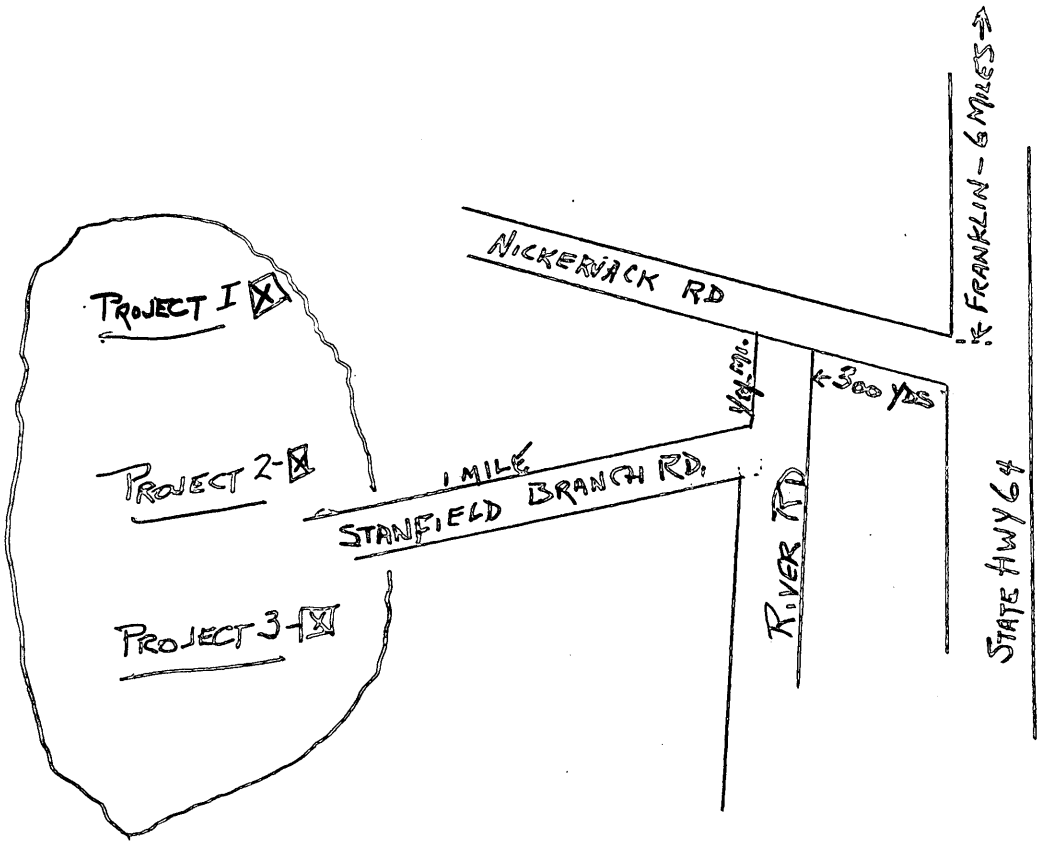
within twelve months from the date hereof at the price of $500.00 cash, party of the first part to make, execute and deliver to parties of the second part a deed therefor with full covenants of warranty upon the payment of the purchase price of $500.00 as aforesaid.

IN TESTIMONY WHEREOF, the parties hereto have hereunto set their hands and affixed their seals the day and year first above written.

s/ JOHN M. RUSSELL
s/ DONALD HOLLAND
s/ B. M. HOLLAND

ABOVE LEASE RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR MACON COUNTY, NORTH CAROLINA, ON MAY 2, 1951, IN BOOK A-6, PAGE 107.

- - - - - - -



2. Over the past 25 years there has been some prospecting and operation on this property. Excellent quality of hygrade strategic ruby mica has been obtained. Blocks up to 100 pounds have been found, which sheeted into large sizes. The lands lie within the mica pegmatite lead and it is anticipated that large quantities of mica will be released because of this exploratory work.

3. It is proposed to work three (3) projects on this property, as follows:
PROJECT 1 - Dozer-trench for a distance of 200 feet long, 30 feet wide and 15 feet deep; then sink 4 test pits into pegmatite for a depth of 10 feet, to locate best spot to run a tunnel which will be approx. 35 feet long, 6' x 6'. This work will require 35 days to complete.
PROJECT 2 - Dozer-trenching, 75 feet long, 20 feet wide and 10 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.
PROJECT 3 - Dozer-trenching, 35 feet long, 20 feet wide and 10 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.

6. See attached "Cost of Projects".
7. " "
8. " "
9. " "

COST OF PROJECTS:

PROJECT 1 -	Rental - Bulldozer, 80 hours @ $10.00 per hour	$ 800.00
	" Air Compressor, Jackhammer etc. 1½ months @ $250.00 per month	375.00
	" Jeep - 30 days @ $6.00 per day	180.00
	Miscellaneous hand tools	100.00
	Misc. expenses, payroll tax, office, sampling, etc.	125.00
	Superintendent-Engineer, 24 days @ $20.00 per day	480.00
	Working Foreman, 35 days @ $15.00 per day	525.00
	4 Laborers, 35 days each @ $10.00 per day each	1400.00
	TOTAL COST - PROJECT 1 -	$ 3,935.00

- - -

PROJECT 2 -	Rental - Bulldozer, 40 hours @ $10.00 per hour	400.00
	Miscellaneous hand tools	65.00
	Superintendent- Engineer, 10 days @ $20.00 per day	200.00
	Working Foreman, 15 days @ $15.00 per day	225.00
	2 Laborers, 15 days each @ $10.00 per day each	300.00
	Misc. expenses, paroll taxes, office, sampling etc.	65.00
	TOTAL COST - PROJECT 2 -	$ 1,255.00

- - -

PROJECT 3 -	Rental Bulldozer, 25 hours @ $10.00 per hour	250.00
	Misc. Hand Tools	45.00
	Superintendent-Engineer, 4 days @ $20.00 per day	80.00
	Working Foreman, 12 days @ $15.00 per day	180.00
	2 Laborers, 12 days each @ $10.00 per day each	240.00
	Misc. expenses, payroll taxes, office, sampling, etc.	55.00
	TOTAL COST - PROJECT 3 -	$ 850.00

OPERATION OF THE THREE PROJECTS AT SAME TIME WILL REDUCE TOTAL COST.

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of MACON, State of NORTH CAROLINA, described in a certain Exploration Project Contract dated _____, 195__, between B. M. & DONALD HOLLAND, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated MAY 1, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 7th day of NOVEMBER, 195 1

John H. Russell

John H. Russell

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

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. dmm 21219

Date received 11-9-51

B. M. & DONALD HOLLAND
CULLASAJA
NORTH CAROLINA

BUZZARD KNOB MINE

Name and address of applicant

Date 11/7/51

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.

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1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? STRATEGIC MICA
   (*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. 7½ miles S.W. of Franklin, N.C.
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Nickerjack
   (*d*) County, State. Macon County, N. C.
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.

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: NONE. THIS IS AN EXPLORATORY APPLICATION. PRODUCTION WILL START UPON COMPLETION OF SAME.

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.

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

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(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: NONE

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.

B. M. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

11/7/51
(Date)

PARTNER
(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

Form MF-103
(Revised 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. dma 2219
Metal or Mineral
Date Received 11-9-51
Amount $
Participation (Government %)

NOV 9 1951

S. L. & DAVID NOLAND
GASTONIA
NORTH CAROLINA

BUZARD MOB LIE

Name and address of applicant

Date 11/7/51

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

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.

   (*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. attached

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

   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. 4 copies attached

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

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. None

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? 100

    (*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)? Yes

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.

D. H. C. DONALD HOLLAND
(Name of company)

By B. M. Holland
(Signature of authorized official)

Partner
(Title)

11/7/51
(Date)

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

1. [illegible] (same as area on which exploration is to be conducted). copy of lease;

THIS [illegible] MADE and entered into this the 1st day of [illegible], 19[illegible], by and between John [illegible]. Russell of Macon County, North Carolina, party of the first part, hereinafter designated as lessor, and [illegible]. [illegible] Pollard and Donald Pollard, of Macon County, North Carolina, parties of the second part, hereinafter designated as lessees, WITNESSETH:

That the said party of the first part does hereby lease unto the parties of the second part, their heirs and assigns, the minerals and privileges necessary for the mining and removal of said minerals upon a tract of land in Nikwasi Township, Macon County, North Carolina, described as follows:

BEGINNING on a chestnut oak stump, Frank Pollard's and John W. Russell's corner, in a line of Grant No. 2[illegible]; runs N. 20 E. [illegible] poles to a mountain oak in Frank Pollard's line; thence W. [illegible] poles to a chestnut; thence S. [illegible] poles to a hickory in branch; thence N. 67 W. [illegible] poles to a chestnut in an old line; thence S. 61 W. 62 poles to a stake on lower bank of road; thence with meanders of road N. 22 W. 6 poles to a stake; thence N. 37 W. 12 poles to a stake; thence N. 33 W. 10 poles to the BEGINNING.

(Contains 37 acres more or less).

SUBJECT AND SUBMITTED OF THE FACT AND AS FOLLOWS:

1. Lessees agree to pay lessor a royalty of twelve and one-half (12½) percent of the gross selling price of all minerals recovered from said property, and all royalty payments shall be due and payable within ten days from the date of sale.

2. Lessees agree to keep a record of all sales which shall be open for inspection of lessor at all times.

3. The duration of this lease shall be twelve months from the date hereof.

4. As a part of this lease, lessor gives the lessees the necessary right to build such trails or roads upon said property as may be necessary for the installation of machinery and the proper operation of mines. Lessees shall have the further right to use such timber and water upon said property as may be necessary in their mining operations.

5. It is agreed and understood between the parties hereto that lessees will begin mining operations within thirty days from the date hereof. If at any time lessees shall discontinue operations for as long as thirty consecutive days, the lessor, at his option, may declare this lease to be terminated and of no further force and effect.

6. That for the consideration of One Dollar, the receipt of which is hereby acknowledged, the party of the first part does hereby give and grant unto the parties of the second part the full and exclusive right to purchase

6. (cont'd)

within twelve months from the date hereof at the price of $200.00 each, party of the first part to sell, execute and deliver to parties of the second part a deed thereto with full covenants of warranty upon the payment of the purchase price of $200.00 as aforesaid.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and affixed their seals the day and year first above written.

/s/ JOHN P. [illegible]
/s/ [illegible]
/s/ D. P. [illegible]

[illegible] BY [illegible] OF THE [illegible] OF [illegible] FOR [illegible] COUNTY, [illegible], ON MAY 2, 2003, IN BOOK A-5, PAGE 207.

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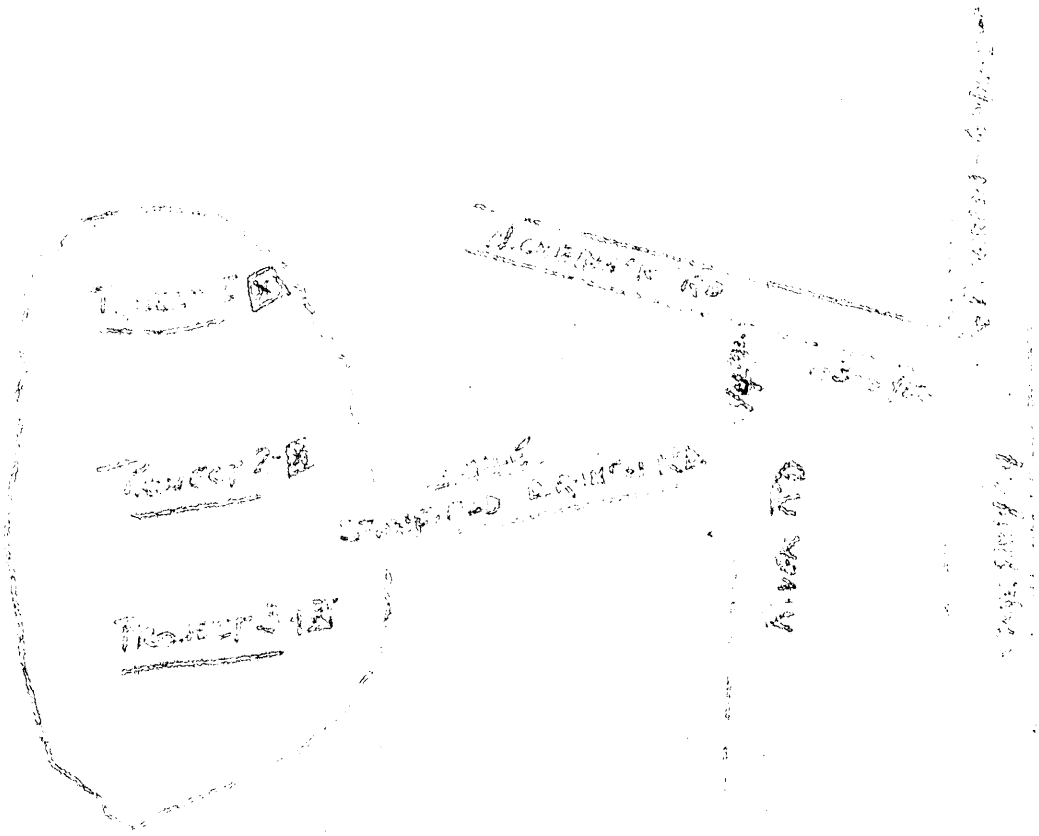

2. Over the past 25 years there has been some prospecting and operation on this property. Excellent quality of hypnotic corundum only mica has been obtained. Blocks up to 1.0 pounds have been found, which cleaved into large discs. The land lie within the mica pegmatite land and it is anticipated that large quantities of mica will be recovered because of this exploratory work.

3. It is proposed to work three (3) projects on this property, as follows:
PROJECT 1 - Decor-tunnel for a distance of 200 feet long, 30 feet wide and 15 feet deep; then dig 4 test pits into pegmatite for a depth of 20 feet, to locate best spot to run a tunnel which will be approx. 35 feet long, 6' x 6'. This work will require 35 days to complete.
PROJECT 2 - Decor-trenching, 75 feet long, 20 feet wide and 20 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.
PROJECT 3 - Decor-trenching, 50 feet long, 20 feet wide and 20 feet deep. Two (2) test pits, 10 feet deep, will be sunk into pegmatite.

4. See attached "Sect of Projects".
5. " "
6. " "
7. " "

COST OF PROJECTS:

PROJECT 1 - Control - Bulldozer, 20 hours @ ($10.00 per hour	$ 200.00
" Air Compressor, Jackhammer etc.	
1½ months @ ($50.00 per month	375.00
" Shop - 10 days @ $5.00 per day	100.00
Miscellaneous hand tools	100.00
Misc. expenses, payroll tax, office, supplies, etc.	105.00
Superintendent-Engineer, 25 days @ $20.00 per day	500.00
Working Foreman, 35 days @ ($15.00 per day	525.00
5 Laborers, 35 days each @ ($10.00 per day each	1750.00
TOTAL COST - PROJECT 1 -	$ 3,955.00

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PROJECT 2 - Control - Bulldozer, 10 hours @ ($10.00 per hour	100.00
Miscellaneous hand tools	65.00
Superintendent- Engineer, 10 days @ ($20.00 per day	200.00
Working Foreman, 15 days @ ($15.00 per day	225.00
2 Laborers, 15 days each @ ($10.00 per day each	300.00
Misc. expenses, payroll taxes, office, supplies etc.	65.00
TOTAL COST - PROJECT 2 -	$ 1,055.00

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PROJECT 3 - Control Bulldozer, 25 hours @ ($10.00 per hour	250.00
Misc. hand tools	65.00
Superintendent-Engineer, 4 days @ ($20.00 per day	80.00
Working Foreman, 12 days @ ($15.00 per day	180.00
2 Laborers, 12 days each @ ($10.00 per day each	240.00
Misc. expenses, payroll taxes, office, supplies, etc.	65.00
TOTAL COST - PROJECT 3 -	$ 880.00

ORGANIZATION OF ALL THREE PROJECTS AS ABOVE WILL TAKE THREE TIMES TOTAL COST.

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of _____, State of _____, described in a certain Exploration Project Contract dated _____, 195___, between _____, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated _____ _____, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this _____ day of _____, 195_____

_____

U. S. GOVERNMENT PRINTING OFFICE 940768

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. _____

Date received _____

[illegible]

[illegible]

Name and address of applicant

Date 11/7/52

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? [illegible]
   (*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. 7½ miles S.E. of Franklin, N.C.
   (*b*) Mining district. [illegible]
   (*c*) Township, Section, Range. [illegible]
   (*d*) County, State. [illegible] County, N. C.
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.

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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: 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.

THIS IS AN EXPLORATORY APPLICATION.

10. Production: NONE. PRODUCT ON FILE STAFF UPON COMPLETION OF SALE.

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.

(*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: NONE

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.

D. M. & DONALD HOLLAND
(Name of company)

By B M Holland
(Signature of authorized official)

11/7/51
(Date)

PARTNER
(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