DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2154-X

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

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an exploration

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

Routing Slip

To: P.E.D. Date 11/16/51

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DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2154

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip
Code 370

To:	Indus.Minls.Br.	Date	10/15/51
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To:	Coordinating Div.	Date	10-23
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FILE COPY
SURNAME:

Layer
Hedges
B. Johnson

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

JAN 29 1952

Mr. Beulon Holland
Cullasaja
North Carolina

Re: Docket No. DMEA - 2154 (Corundum)
Gregory Knob Corundum Mine

Dear Mr. Holland:

Reference is made to your letter of January 15, 1952 in which you request reconsideration of your application.

We have again carefully reviewed your application, together with the recent field examination report. It is our conclusion that the corundum mineral showings, exposed and indicated on the property, are inadequate to justify Government participation in the project. We, therefore, reaffirm the denial as stated in our letter of December 12, 1951.

Sincerely yours,

C. O. Mittendorf

1-29-52

Acting Administrator
Defense Minerals Exploration
Administration

FEJohnson/JTRobertson/meb/bih
1/25/52
cc to: Admr's. Reading File
Docket
Field Team, Region VII
Messrs. H.P.Chandler, USBM - Room 3520
J. J. Norton, USGS - Room G-228
Houk
Robertson

FILE COPY
SURNAME:

600

Robertson
Houk

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

Mr. Benlon Holland
Sullasaja
North Carolina

Re: Docket No. DMA - 2154 - Corundum
Gregory Knob Corundum Mine

Dear Mr. Holland:

Referring to your letter of January 15, 1952 in which you request reconsideration of your application.

The Non-Metallic Minerals Division, after very careful review, including that of a recent field examination report, came to the conclusion that the corundum mineral showings, exposed and indicated on the property, were inadequate to justify Government participation in the project. We, therefore, reaffirm the denial as stated in our letter of December 12, 1951.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

JTRobertson/meb
1-24-52
cc to: Adm.Reading File
Docket File Copy
Field Team,Reg.VII
Mr. H.P.Chandler,USBM,Rm.3520
Mr. J.J.Norton,USGS,Rm.G-228 GSA
Mr. Houk
Mr. Robertson

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. Frank E. Johnson
Acting Administrator
D. M. Exp. Administration
Washington 25, D. C.

Re: DMA 2154X
Gregory Knob Mine

Dear Mr. Johnson:

I have your letter of December 12, in which you explain the reasons for denial of my application covering the above mentioned mine.

At the time of your Field Team examination we covered the property quite thoroughly and it was my impression they favored a certain amount of exploratory work. It is my honest belief that the area has not yet been adequately explored in the past. The presence of corundum on the dumps of previous workings show good signs of commercial quantities which could be recovered. This property is on the same lead as that of the Corundum Hill mines which were very profitably operated prior to the marketing of carborundum.

I have prospected this property very thoroughly for more than two years and feel quite certain of the statements I have made. I trust you will reconsider my application and allow for a certain amount of exploratory work before considering the matter closed.

Sincerely yours,

Beulon Holland

BH:em

Beulon Holland

ADDRESS: Cullasaja, N. C.

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
JAN 21 10 19 PM '52

400

FILE COPY
SURNAME:

Norton
Houk
Chandler
Moore
Harper
Johnson

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

DEC 12 1951

Mr. Beulon Holland
Cullasaja, North Carolina

Re: DMA docket 2154X - Corundum
Gregory Knob Corundum Mine

Dear Mr. Holland:

Your application for aid for an exploration project on a corundum deposit located in Macon County, North Carolina, and docketed as DMA 2154, has been reviewed by this office.

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

A very careful study of your proposal reveals that the deposit has been adequately explored in the past, and no evidence has been produced to show that additional work is justified.

Under these circumstances, your application for exploration aid to the extent of 90 percent of $4,860.00 is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

Sincerely yours,

(signed) FRANK E. JOHNSON (for)

Acting Administrator
Defense Minerals Exploration
Administration

LHouk:lm
12/5/51

cc: Admn. Reading File
✓ Reports and Records
C. O. Mittendorf
Mr. Kupfer, USGS
H. P. Chandler, USBM
L. Houk
Field Team Reg. VII
Docket

DKI 2154
Gorman
Region VII

HUGH HOLLAND, CULLASAJA, NORTH CAROLINA. Gregory Knob Corundum
Inc. Macon County, North Carolina. 860 requested.
Application denied. Letter to Applicant.

DM - 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 11-17-51

REFERRED TO:

1. Non Metallics
2.
3.
4.

FOR:

_____ Action

_____ Approval

_____ Comment

_____ Recommendation

_____ Reply for signature of _____

_____ Your information

REMARKS:

Check (X) before the items needing attention.

Adams

Initials of sender.

Interior - Bureau of Mines, Pittsburgh, Pa.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Room 13, Post Office Building
Knoxville 2, Tennessee

November 6, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee

From: Field Team, Region VII

Subject: DMA-2154X, Beulon Holland

Transmitted herewith are four copies of field Examination report on the subject application. The Field Team concurs in the recommendation for denial.

The original application, review, and related memoranda are returned herewith.

Robert A. Laurence
Robert A. Laurence
U. S. Geological Survey

Wm. A. Beck
Wm. A. Beck for V. J. Lynch
U. S. Bureau of Mines

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
NOV 7 4 03 PM '51

Enclosures

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

NOV 7 4 03 PM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-2154X, Beulon Holland, Applicant
(Corundum)

By

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

A. L. Peyton, Mining Engineer
U.S. Bureau of Mines

October 30, 1951

Report of Field Examination on
Gregory Knob Corundum Mine - Macon County, North Carolina

DMA-2154K, Beulon Holland - Applicant,
(Corundum)

This deposit is located about 1 1/2-miles East of the Corundum Hill Mines, along the south side of a low gap. Gregory and Gray Knobs are the same one, thus the Gray Knob deposit of previous reports is the same as the one described in this application.

Prospecting at this place has been in the form of several shallow pits and trenches. One tunnel, now caved, was driven into the hill, (length of the tunnel is unknown). Old dumps and pits are much overgrown by brush and no exposures of rock in place or dump material are available. From the size of the overgrown dumps, it would appear that the depth of the pits did not exceed 20-feet.

Apparently the prospects have been made on interior veins, with very little success. A few corundum crystals were picked up from one of the dumps, but they are not abundant. The corundum is white or gray in color and the crystals are wrapped by awhite micaceous mineral.

It is extremely doubtful that a worthwhile deposit of corundum occurs at this place; therefore, the Field Team recommends that the loan requested be refused.

October 30, 1951

K. H. Teague, USGS

A. L. Peyton, USBM

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-2154X, Paulen Holland, Applicant
(Corundum)

By

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

A. L. Peyton, Mining Engineer
U.S . Bureau of Mines

October 30, 1951

Report of Field Examination on
Gregory Knob Corundum Mine - Macon County, North Carolina

DMA-215X, Beulah Holland - Applicant,
(Corundum)

This deposit is located about 1 1/2-miles East of the Corundum Hill Mines, along the south side of a low gap. Gregory and Gray Knobs are the same one, thus the Gray Knob deposit of previous reports is the same as the one described in this application.

Prospecting at this place has been in the form of several shallow pits and trenches. One tunnel, now caved, was driven into the hill, (length of the tunnel is unknown). Old dumps and pits are much overgrown by brush and no exposures of rock in place or dump material are available. From the size of the overgrown dumps, it would appear that the depth of the pits did not exceed 20-feet.

Apparently the prospects have been made on interior veins, with very little success. A few corundum crystals were picked up from one of the dumps, but they are not abundant. The corundum is white or gray in color and the crystals are wrapped by a white micaceous mineral.

It is extremely doubtful that a worthwhile deposit of corundum occurs at this place; therefore, the Field Team recommends that the loan requested be refused.

October 30, 1951

K. H. Teague, USGS

A. L. Peyton, USBM

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

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
370
'51

Mr. Robert A. Lawrence, Executive Officer
DMA Field Team, Region VII
Room 13, Post Office Building
Knoxville, Tennessee

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant Boulon Holland

Docket No. DMA-2154X

Commodity Corundum

Amount $ 4,860

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review".

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2154

Commodity Corundum

Total Amount 4860

Govt. Participation 90%

1. Name and Address of Applicant Beulon Holland
Cullasaja, North Carolina

2. Location of Property 9 miles S.E. of Franklin, N.C.

3. Mineral or metal Corundum Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good — SEE

b) Poor MEMOS

c) None Attached —

d) Don't know—needs field examination

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes, owner
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future

productive period? —

*question numbers are those of MF-103

7. Are subordination agreements necessary? NO

a) MF-201? —

b) MF-202 —

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes, b)

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? NO

If not, are there sufficient data given so that you can describe the project? NO If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? NO

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Probably would qualify

If not, what part of it is?

Is this part a worthwhile exploration project? Field Team Decide

d) Are the cost estimates detailed? Fairly Well

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? NO If so, attach a draft.

e) Are the cost estimates reasonable? Appear SO

f) Should more information be requested from applicant? _____

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? NO

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? —

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? NO If so, attach a draft.

c) Are rents and charges reasonable? Appear SO

d) Is a field check needed? Yes Needs - who owns equipment -

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? Yes

d) Are the proposed wages and salaries reasonable? Yes - but too

e) Is a field check needed? Yes Much supervision -

Establish actual needs and costs

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? —

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check on how much work has been done here previously — If exploration is justified work out a minimum program and submit contract data & sketch map —

Reviewed by: J. P. Walsey

Note — Hadley may possibly have information on hand to kill this project without field trip — However we do not have enough data on hand in Washington to avoid referral —

Date 10/23/51

INT.-DUP. SEC., WASH., D.C. 99009

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

October 23, 1951

Memorandum

To: Mr. Robert Waskey, Defense Minerals Administration

From: Henry P. Chandler, Bureau of Mines

Subject: Corundum - Application (DMA-2154)

During 1943 and 1944 the Bureau of Mines, in connection with the Geological Survey, examined nearly all of the former corundum producing properties in North Carolina and Georgia, but found nothing that would justify further exploration.

In this case there seems to be some question whether or not the Gregory Knob mentioned in the application is the same as Gray Knob previously examined by the Bureau.

As corundum is considered a critical material, and the present supply in the United States very inadequate, it is suggested that the Defense Minerals Administration Field Team for that Region be asked to inspect the property and determine whether or not it was previously examined, and if the surface indications encourage further exploration.

Henry P. Chandler

Henry P. Chandler, Commodity Specialist
Construction and Chemical Materials Branch

Attachment

IN REPLY REFER TO:

G-MD-DHK

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

Memorandum October 19, 1951

To: Robert Waskey, Defense Minerals Administration

From: Donald H. Kupfer

Subject: Holland Beulon's application (DMA-2154) for aid in exploring the Gregory-Knob Corundum Mine, Macon County, North Carolina.

Mr. Beulon's application, DMA-2154, to explore the Gregory Knob Mine, 9 miles southeast of Franklin, Macon County, North Carolina, for corundum is vague as to location so that the application cannot be accurately evaluated.

During 1944-45 the Geological Survey and the Bureau of Mines visited, mapped, and partially explored the Corundum Hill Mine, the Mincey Mine, and the prospects in between. This would certainly include the Gregory Knob property.

Most likely the Gregory Knob deposit is the same as the "Gray Knob" dunite outcrop (Holland's deed is from Mae Gray) mentioned by the Bureau of Mines (U.S.B.M. R.I. 4042, p. 8, 1947) as 1½ miles northeast of Corundum Hill and "prospected to some extent by test pits and prospect tunnels, but mainly in interior veins." This knob is also mentioned by Pratt and Lewis (No. Car. Geol. Surv. vol. 1, p.248-9, 1905) and by Pratt (U.S.G.S. Bull. 269, p. 119, 1906) as belonging to John Gray. In the latter publication Pratt states "This, in my opinion, is one of the most promising prospects for corundum in Macon County." However, judging by the U.S.B.M. report, the property has been carefully prospected since the Pratt report.

Hadley, who did the work in this area for the Survey in 1945, has emphasized the difficulties involved in reopening mines in this area. White (North Carolina R. I., Corundum in North Carolina, Advance Report, p. 8, 1943) states:

> "Since most of the veins have large vermiculite phases, there is a constant tendency for large masses of rock to slip or fall from the back. The history of corundum mining shows many failures of attempted reopenings of old drifts . . "

In summary, the information at hand indicates that "Gregory Knob" is the same as "Gray Knob." Gray Knob has already been explored by underground workings, a much more complete exploration than the surface work proposed by the applicant. Pending more accurate information from the applicant, the application should be denied.

Donald H. Kupfer

Donald H. Kupfer

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 12 3 37 PM '51

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 2154

Date received 10-12-51

Participation

GREGORY KNOB CORUNDUM MINE

BEULON HOLLAND
CULLASAJA
NORTH CAROLINA

Name and address of applicant

Date 10/10/51

FILL IN THIS BLOCK

Date of application 10/10/51

Estimated cost $4,860.00

Mineral or metal CORUNDUM

Percentage of Government participation 10%

Location of mine 9 miles southeast of Franklin (Macon County) N. C.

Date of filing MF-100 9/26/51

DMA Docket Number, if available ~~2111~~ 2154

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. (a) Has mined for various minerals in Macon County, N.C., for over 15 years.

*5. Are you the owner or the lessee of the property? Owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? 10% - sufficient in accordance with MO-5

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*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.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

Berlon Holland
(Name of company)

By _____
(Signature of authorized official)

10/10/51
(Date)

_____
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

MF-103 BEULON HOLLAND GREGORY KNOB CORUNDUM MINE

10. (a) Description of real property (top & bottom):
"Being the lands conveyed by deed, 500 acres more or less, in fee simple, from Mae I. Gray, et al, to Beulon Holland, dated June 28, 1950, and recorded in Book Y-5, page 567, Register of Deeds, Macon County, North Carolina.

(b) Legal description of the exact area upon which the exploration is to be conducted is as follows: BEGINNING at Gap and Timber Roads, running northerly approximately 1 mile with Gap Road to Government Line, thence easterly with said line and R. L. Smith line to Timber Road, thence southerly approximately 3/4 mile along Timber Road to point of BEGINNING; containing 150 acres more or less.

11. NAME- GREGORY KNOB CORUNDUM MINE.

15. Ore will be shipped from Franklin, N. C. to purchasing mills.

16. Gregory Knob Mine is on the same lead and property as Croundum Hill Mines (about 1½ miles apart). The latter was worked extensively and highly profitably around the start of this century. About that time prospecting was done at Gregory Knob Mine through shaft and tunnel (see map attached). High grade croundum still remains on the dumps.

20. EXPLORATION WILL be conducted to locate extent and depth of existing corundum vein.

21. Proposed work will consist of bulldozing away overburden and existing dump for a distance of 200 feet long, about 40 feet wide and 35 feet deep. 3 or 4 test pits will be sunk into vein, about 6 to 8 feet square and 15 to 25 feet deep. This will expose vein and aid in establishing extent of reserves. Work will require 45 days.

23. COST OF PROJECT:

Tractor-dozing trenching	
175 hours @ $10.00 per hour	$1,750.00
Timber for Test Pits	225.00
Jeep rental, $6.00 per day 45 days	270.00
Miscellaneous hand tools	145.00
Engineer-Superintendent	
25 days @ $20.00 per day	500.00
Working Foreman, 40 days @ $15.00 per day	600.00
3 Laborers, 40 days @ $10.00 each	1,200.00
Miscessaneous expenses, payroll taxes, office, sampling, etc.	170.00
TOTAL COST OF PROJECT	$4,860.00

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Room 13, Post Office Building
Knoxville 2, Tennessee

October 29, 1951

OFFICIAL FILE COPY

To	Init.	Date
320	A. EC	10-31
210		

Mr. Tom Lyon
Chairman, Coordinating Committee
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Subject: DMA-2154X - Corundum
Gregory Knob Corundum Mine
Beulon Holland

Dear Mr. Lyon:

This will acknowledge receipt, on this date, of subject-application. Field examination will be made this week.

Sincerely,

Wm. A. Beck

Wm. A. Beck for R. A. Laurence
Executive Officer, DMA Field Team
Region VII

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
OCT 31 8 50 AM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
ROOM 13 POST OFFICE BLDG.
KNOXVILLE 01, TENN.
OFFICIAL BUSINESS

KNOXVILLE
OCT 29
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PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

Mr. Tom Lyon
Chairman, Coordinating Committee
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

FILE COPY
SURNAME:

Barr

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

OCT 26 1951

A.E.C.

Mr. Leslie Holland
Gulledge
North Carolina

Subject: [illegible]
Uranium mob Corundum [illegible]

Dear Mr. Holland:

Your application is being referred to Mr. Albert M. Lawrence, Executive Officer, [illegible], Region VII, Room 13, Post Office Building, Knoxville, Tennessee, for further information.

Sincerely yours,

SIGNED

Tom Lyon, Director
Supply Division

MAS:LT:mp
10-23-51
cc: Field Team, Region VII (2)
Administrator's reading File
DMA Docket File
Mr. Barr

Mr. Beulon Holland
Cullasaja
North Carolina

Subject: DMA-2154X - Corundum
Gregory Knob Corundum Mine

Dear Mr. Holland:

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

Sincerely yours,

Tom Lyon, Director
Supply Division

RWASKEY:mp
10-23-51
cc: Field Team, Region VII (2)
Administrator's reading File
DMA Docket File
Mr. Barr

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

Beulon Holland

DMA-2154X

Corundum

4,860

RWASKEY:mp
10-23-51

-103
951)

U. DEPARTMENT OF THE INTE

DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2154

Date received 10-12-51

Participation

BEULAH HOLLAND
CULLASAJA
NORTH CAROLINA

GREGORY KNOB CORUNDUM MINE

Name and address of applicant

Date 10/10/51

FILL IN THIS BLOCK

Date of application 10/10/51

Estimated cost $4,860.00

Mineral or metal CORUNDUM

Percentage of Government participation 10 %

Location of mine 9 miles southeast of Franklin (Macon County) N. C.

Date of filing MF-100 9/25/51

DMA Docket Number, if available ~~2111~~ 2154

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. Has mines for various minerals in Macon County, NC, for over 15 yrs.

*5. Are you the owner or the lessee of the property? Owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? 10% - sufficient in accordance with MO-5

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any exi mine or operating property.

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings fro any commercial discovery made in the area specified in (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

Beulon Holland
(Name of company)

By _____
(Signature of authorized official)

10/10/57
(Date)

_____
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

MF-103 BEULON HOLLAND GREGORY KNOB CORUNDUM MINE

10. (a) Description of real property (top & bottom):
"Being the lands conveyed by deed, 500 acres more or less, in fee simple, from Mae I. Gray, et al, to Beulon Holland, dated June 28, 1950, and recorded in Book Y-5, page 567, Register of Deeds, Macon County, North Carolina.

(b) Legal description of the exact area upon which the exploration is to be conducted is as follows:
BEGINNING at Gap and Timber Roads, running northerly approximately 1 mile with Gap Road to Government Line, thence easterly with said line and R. L. Smith line to Timber Road, thence southerly approximately 3/4 mile along Timber Road to point of BEGINNING; containing 150 acres more or less.

11. NAME- GREGORY KNOB CORUNDUM MINE.

15. Ore will be shipped from Franklin, N. C. to purchasing mills.

16. Gregory Knob Mine is on the same lead and property as Croundum Hill Mines (about 1½ miles apart). The latter was worked extensively and highly profitably around the start of this century. About that time prospecting was done at Gregory Knob Mine through shaft and tunnel (see map attached). High grade croundum still remains on the dumps.

20. EXPLORATION will be conducted to locate extent and depth of existing corundum vein.

21. Proposed work will consist of bulldozing away overburden and existing dump for a distance of 200 feet long, about 40 feet wide and 35 feet deep. 3 or 4 test pits will be sunk into vein, about 6 to 8 feet square and 15 to 25 feet deep. This will expose vein and aid in establishing extent of reserves. Work will require 45 days.

23. COST OF PROJECT:

Tractor-dozing trenching 175 hours @ $10.00 per hour	$1,750.00
Timber for Test Pits	225.00
Jeep rental, $6.00 per day 45 days	270.00
Miscellaneous hand tools	145.00
Engineer-Superintendent 25 days @ $20.00 per day	500.00
Working Foreman, 40 days @ $15.00 per day	600.00
3 Laborers, 40 days @ 10.00 each	1,200.00
Miscellaneous expenses, payroll taxes, office, sampling, etc.	170.00
TOTAL COST OF PROJECT	$4,860.00

IN REPLY REFER TO:

G-MD-DHK

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

Memorandum October 19, 1951

To: Robert Waskey, Defense Minerals Administration

From: Donald H. Kupfer

Subject: Holland Beulon's application (DMA-2154) for aid in exploring the Gregory-Knob Corundum Mine, Macon County, North Carolina.

Mr. Beulon's application, DMA-2154, to explore the Gregory Knob Mine, 9 miles southeast of Franklin, Macon County, North Carolina, for corundum is vague as to location so that the application cannot be accurately evaluated.

During 1944-45 the Geological Survey and the Bureau of Mines visited, mapped, and partially explored the Corundum Hill Mine, the Mincey Mine, and the prospects in between. This would certainly include the Gregory Knob property.

Most likely the Gregory Knob deposit is the same as the "Gray Knob" dunite outcrop (Holland's deed is from Mae Gray) mentioned by the Bureau of Mines (U.S.B.M. R.I. 4042, p. 8, 1947), as 1½ miles northeast of Corundum Hill and "prospected to some extent by test pits and prospect tunnels, but mainly in interior veins." This knob is also mentioned by Pratt and Lewis (No. Car. Geol. Surv. vol. 1, p.248-9, 1905) and by Pratt (U.S.G.S. Bull. 269, p. 119, 1906) as belonging to John Gray. In the latter publication Pratt states "This, in my opinion, is one of the most promising prospects for corundum in Macon County." However, judging by the U.S.B.M. report, the property has been carefully prospected since the Pratt report.

Hadley, who did the work in this area for the Survey in 1945, has emphasized the difficulties involved in reopening mines in this area. White (North Carolina R. I., Corundum in North Carolina, Advance Report, p. 8, 1943), states:

> "Since most of the veins have large vermiculite phases, there is a constant tendency for large masses of rock to slip or fall from the back. The history of corundum mining shows many failures of attempted reopenings of old drifts . . "

In summary, the information at hand indicates that "Gregory Knob" is the same as "Gray Knob." Gray Knob has already been explored by underground workings, a much more complete exploration than the surface work proposed by the applicant. Pending more accurate information from the applicant, the application should be denied.

Donald H. Kupfer

copy to: DMA files

October 15, 1951

Beulon Holland
Cullasaja, North Carolina

Subject: DMA-2154
Re: Exploration

My dear Mr. Holland:

This will acknowledge receipt of your application dated October 10, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA- 2154 and referred to the Industrial Minerals Branch.

Kindly refer to DMA- 2154 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
(April 1951)

U. DEPARTMENT OF THE INTERI
DEFENSE MINERALS ADMINISTRATION

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

OCT 12 3 37 PM '51

DO NOT FILL IN THIS BLOCK

Docket No. dma 2154

Date received 10-12-51

Participation

BEULON HOLLAND
CULLASAJA
NORTH CAROLINA

GREGORY KNOB CORUNDUM MINE

Name and address of applicant

Date 10/10/51

FILL IN THIS BLOCK

Date of application 10/10/51

Estimated cost $4,860.00

Mineral or metal CORUNDUM

Percentage of Government participation 10 %

Location of mine 9 miles southeast of Franklin (Macon County) N. C.

Date of filing MF-100 9/26/51

DMA Docket Number, if available ~~2111~~ 2154

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

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*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

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16—64067-1

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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.

Beulon Holland
(Name of company)

By _____
(Signature of authorized official)

10/10/51
(Date)

_____
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

MF-103 BEULON HOLLAND GREGORY KNOB CORUNDUM MINE

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Form MF-103
(April 1951)

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
OCT 12 3 37 PM '51

U. DEPARTMENT OF THE INTERI

DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 2154

Date received 10-12-51

Participation

BEULON HOLLAND
CULLASAJA
NORTH CAROLINA

GREGORY KNOB CORUNDUM MINE

Name and address of applicant

Date 10/10/51

FILL IN THIS BLOCK

Date of application 10/10/51

Estimated cost $4,860.00

Mineral or metal CORUNDUM

Percentage of Government participation 10 %

Location of mine 9 miles southeast of Franklin (Macon County) N. C.

Date of filing MF-100 9/26/51

DMA Docket Number, if available ~~2111~~ 2154

INSTRUCTIONS

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16—64067-1

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(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

Beulon Holland
(Name of company)

By _____
(Signature of authorized official)

10/10/51
(Date)

_____
(Title)

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

*Same as footnote on page 1.

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MF-103 BEULON HOLLAND GREGORY KNOB CORUNDUM MINE

10. (a) Description of real property (top & bottom):
"Being the lands conveyed by deed, 500 acres more or less, in fee simple, from Mae I. Gray, et al, to Beulon Holland, dated June 28, 1950, and recorded in Book Y-5, page 567, Register of Deeds, Macon County, North Carolina.

(b) Legal description of the exact area upon which the exploration is to be conducted is as follows: BEGINNING at Gap and Timber Roads, running northerly approximately 1 mile with Gap Road to Government Line, thence easterly with said line and R. L. Smith line to Timber Road, thence southerly approximately 3/4 mile along Timber Road to point of BEGINNING; containing 150 acres more or less.

11. NAME- GREGORY KNOB CORUNDUM MINE.

15. Ore will be shipped from Franklin, N. C. to purchasing mills.

16. Gregory Knob Mine is on the same lead and property as Croundum Hill Mines (about 1½ miles apart). The latter was worked extensively and highly profitably around the start of this century. About that time prospecting was done at Gregory Knob Mine through shaft and tunnel (see map attached). High grade croundum still remains on the dumps.

20. EXPLORATION WILL be conducted to locate extent and depth of existing corundum vein.

21. Proposed work will consist of bulldozing away overburden and existing dump for a distance of 200 feet long, about 40 feet wide and 35 feet deep. 3 or 4 test pits will be sunk into vein, about 6 to 8 feet square and 15 to 25 feet deep. This will expose vein and aid in establishing extent of reserves. Work will require 45 days.

23. COST OF PROJECT:

Tractor-dozing trenching	
175 hours @ $10.00 per hour	$1,750.00
Timber for Test Pits	225.00
Jeep rental, $6.00 per day 45 days	270.00
Miscellaneous hand tools	145.00
Engineer-Superintendent	
25 days @ $20.00 per day	500.00
Working Foreman, 40 days @ $15.00 per day	600.00
3 laborers, 40 days @ $10.00 each	1,200.00
Miscellaneous expenses, payroll taxes, office, sampling, etc.	170.00
TOTAL COST OF PROJECT	$4,860.00