DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2946

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 ASSISTANCE

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

CYS TO USBM, USGS, AND REG. VII

To: Code 600 Rm 4637 Date 3/24/53.

To: Open Conn Date 5-27-53

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DO NOT DETACH

CONTROLLED DOCUMENT

[illegible]-2146
[illegible]
Roger M.T.

ANDREW W. [illegible], [illegible], NORTH CAROLINA. Lylo Knob Mine, [illegible] County, North Carolina. 5-22-53

Field Report regarding denial. The report was referred to the Commission, [illegible]. No. 219

[illegible]-2216
[illegible]
Roger M.T.

ANDREW W. [illegible], NORTH CAROLINA. Lylo Knob [illegible] County, North Carolina. 5-27-53

[illegible] to the applicant denying [illegible]. No. 221

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

June 1, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2946, Mica, Lyle Knob Mine
Macon County, North Carolina

I concur in the field team's recommendation to deny subject application on the basis that strategic mica is not likely to be found at this mine.

Signed

W. F. Dietrich

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

June 1, 1953

Memorandum

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BUREAU OF MINES
WASHINGTON 25, D. C.

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Macon County, North Carolina

I concur in the field team's recommendation to deny subject application on the basis that strategic mica is not likely to be found at this mine.

Signed

W. F. Dietrich

60

MAY 2 8 1953

Mr. Andrew W. Reid
P. O. Box 649
Asheville, North Carolina

Re: Docket No. [illegible]-3946 - Mica
Hyde Mine
[illegible] County, North Carolina

Dear Mr. Reid:

[illegible] application for aid for an exploration project and other data available to [illegible] Commission concerning your application have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in the judgment, [illegible] reflect [illegible] of producing deposits of acceptable grade in quantities that will significantly improve the mineral supply position for the national defense program.

Careful study of all our information, although noting a small amount of mica on your property, indicates to us that the probability of discovering minerals are reserved by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

Transmitted [illegible]

Copy to: [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

IN REPLY REFER TO:

G-MD-CNM

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

May 22, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2946 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Andrew W. Reid, Franklin, North Carolina.
Name of property: Lyle Knob mine.
Location of property: On the east and southeast side of Lyle Knob, 4.9 miles N. 12° E. of Franklin, North Carolina.
Date of field team report: May 12, 1953.
Authorship of field team report: Teague and Shirley.
Field team's recommendation: Denial.
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
G-5/22/53
cc:
Director's reading 4212
Branch " "
DMEA(3)✓

Larrabee G-230

IN REPLY REFER TO:

G-MD-CMM

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

May 22, 1953

Memorandum

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Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
G-5/22/53
cc:
Director's reading 4212
Branch " "
DMEA(3)

Larrabee G-230

IN REPLY REFER TO:

G-MD-CNM

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

May 22, 1953

Memorandum

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Larrabee:jeh
G-5/22/53
cc:
Director's reading 4212
Branch " "
DMEA(3)

Larrabee G-230

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13, POST OFFICE BLDG.
WASHINGTON 25, D. C.
KNOXVILLE 2, TENN.

Second copy

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 15 1953

May 13, 1953

Memorandum

To: Operating Committee, D M E A- Washington

From: Field Team, D M E A - Region 7

Subject: DMEA-29146, Lyle Knob Mine,(mica) Field Examination Report.

Transmitted herewith are 4 copies of the field examination report on the above subject.

The Field Team concurs in the denial of this application.

Robert A. Laurence

Robert A. Laurence
Executive Officer, DMEA
Region 7

Wm. A. Beck

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

Reviewed by
DMEA OPERATING COMMITTEE

5-22-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

(Mica)

DMEA-2946, LYLE KNOB MINE

By

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

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

May 12, 1953

Reviewed by
DMEA OPERATING COMMITTEE

5-22-53
(date)

Field Examination Report

on

Lyle Knob Mine - DMEA-2946, (mica) -

Applicant: Andrew W. Reid, P.O. Box 489, Franklin, N. C.

One large pegmatite hasbeen extensively mined on Lyle Knob and numerous smaller ones have been prospected to a considerable extent. Only the main Lyle Knob pegmatite has produced significant amounts of mica, and most of this production came from that side owned by T. D. Bryson, Jr. which has been the subject of two applications, DMA-1714X, and DMEA-2683, both of which were denied. The field examiners are of the opinion that the possibilities for discovery of a significant deposit at this place are poor, thus we recommend that the application be denied.

This deposit was examined on May 7, 1953. The applicant, Andrew W. Reid, accompanied the examiners on the inspection which required three hours.

That portion of the Lyle Knob Mine, subject to this application is on the east and southeast side of Lyle Knob 4.9 miles N. 12° E. of Franklin, Macon County, North Carolina. Access is possible at all seasons by 4-wheel drive truck.

Two areas are involved in thisapplication. Area I - involves the eastern end of the main Lyle Knob pegmatite. This pegmatite has been worked by a large open cut on the outcrop, which was continued downward by an open stope. No mica-bearing pegmatite is presently exposed, and previous workers (Parker, Stoll, etc.) are of the opinion that little mica remains.

Area II - is located between 100 and 200 yards southeast of Area I . At this place numerous north-south cuts have been made across the outcrop of thin burr pegmatites over a distance of about 200 feet. Several pegmatites occur, and the cuts on some of them have been supplimented by short drifts and shallow pits. None of the pegmatites appear of sufficient extent or to contain adequate mica to justify assistance.

Therefore, it is the opinion of the field examiners that this application should be denied.

May 12, 1953

Kefton H. Teague, Geologist- USGS

Lawrence E. Shirley, Mining Eng. USBM

sm

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

April 2, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2946, Lyle Knob Mine,
Macon County, North Carolina

Bureau of Mines records indicate 72.37 pounds of full trimmed mica valued at $578.96 and 166 pounds of punch mica valued at $49.80 were sold to Colonial Mica from this mine in 1945 and an average monthly sale from May to September 1944 of $510.21. It is recommended the field team be requested to evaluate the proposed program to ascertain if an exploration program is justified.

W. F. Dietrich

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

April 2, 1953

Memorandum

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Signed

W. F. Dietrich

IN REPLY REFER TO:
G-MD-CNM

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

March 26, 1953

RECEIVED

Memorandum

REVIEW OF APPLICATION DMEA-2946 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: A. W. Reid.
Name of property: Lyle Knob.
Location of property: 5 miles N. 12 E. of Franklin, Macon County, North Carolina.
Estimated cost of project: Not stated.
Summary of applicant's proposal:
Project 1: Extend Adit No. 1.
Project 2: Bulldozer work in locality 1,000 feet away.
Sources of information on applicant's property:
1. DMEA 1714.
2. DMEA 2683.
Comments:
1. The two previous applications were denied because they were considered development by DMEA.
2. Reid's "Project2" may be in an area that the field examiners have not previously seen. Nevertheless, unless Reid can provide better evidence than he has, we are not justified in sending the field team to this property a third time.
3. The letter denying DMEA-2683 should have stated that the reason for denial was that the application was for development rather than exploration.
RECOMMENDATION:
Denial.

J. J. Norton

Norton:jeh
G-3/26/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Norton G-230

IN REPLY REFER TO:
G-MD-CNM

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

March 26, 1953

Memorandum

REVIEW OF APPLICATION DMEA-2946 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: A. W. Reid.
Name of property: Lyle Knob.
Location of property: 5 miles N. 12 E. of Franklin, Macon County, North Carolina.
Estimated cost of project: Not stated.
Summary of applicant's proposal:
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RECOMMENDATION:
Denial.

J. J. Norton

Norton:jeh
G-3/26/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Norton G-230

APR 6 1953

Mr. Andrew W. Reid
P. O. Box 439
Franklin, North Carolina

Re: Docket No. DMEA-2946 - Mica
Lyle Knob Mine
Macon County, North Carolina

Dear Mr. Reid:

Reference is made to the subject application for exploration assistance on the Lyle Knob Mine. This mine has been the subject of DMEA applications 1714X and 2643 both having been denied.

It is not possible to determine from your application that your approach to further exploring this pegmatite differs materially from the previous plan. Please submit additional information on your work plan.

Please note mineral form MF-103, copy of which is enclosed, article 6 requires the applicant to submit detailed cost estimates of the proposed work. Each sub-division (a) to (h) should be answered in as great detail as possible in order that this office may properly evaluate your application.

Please submit a metes and bounds description of the Lyle Knob Mine tract of land and the book and page of recording of the deed from which the description was obtained.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosure
LGHouk:gad 4/3/
Copy to: Admr. R. File
Docket File
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Field Team, Region VII
Mr. Houk

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

April 2, 1953

Memorandum

...MENT OF THE INTERIOR
...Minerals Administration
RECEIVED
APR 3 1953

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2946, Lyle Knob Mine,
Macon County, North Carolina

Bureau of Mines records indicate 72.37 pounds of full trimmed mica valued at $578.96 and 166 pounds of punch mica valued at $49.80 were sold to Colonial Mica from this mine in 1945 and an average monthly sale from May to September 1944 of $510.21. It is recommended the field team be requested to evaluate the proposed program to ascertain if an exploration program is justified.

W. F. Dietrich

IN REPLY REFER TO:
G-MD-CNM

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

March 26, 1953

Memorandum

REVIEW OF APPLICATION DMEA-2946 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: A. A. Reid.
Name of property: Lyle Knob.
Location of property: 5 miles N. 12 E. of Franklin, Macon County, North Carolina.
Estimated cost of project: Not stated.
Summary of applicant's proposal:
Project 1: Extend Adit No. 1.
Project 2: Bulldozer work in locality 1,000 feet away.
Sources of information on applicant's property:
1. DMEA 1714.
2. DMEA 2683.

Comments:

1. The two previous applications were denied because they were considered development by DMEA.

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3. The letter denying DMEA-2683 should have stated that the reason for denial was that the application was for development rather than exploration.

RECOMMENDATION:
Denial.

J. J. Norton

Norton:jeh
G-3/26/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Norton G-230

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 24 1953

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

Not to be filled in by applicant

Docket No. dmea 2946
Metal or Mineral
Date Received 3-24-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

ANDREW W. REID
P. O. BOX 489
FRANKLIN, N. C.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract BEING the lands known as State Grant No. 3022, consisting of 233 acres, more or less, as deeded by the Macon County Commissioners to A. W. Reid, which deed is recorded in the office of the Register of Deeds for Macon County.

(*b*) State any mine name by which the property is known. LYLE KNOB MINE

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it NONE

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(State the mineral or minerals for which you to explore STRATEGIC RUBY MICA

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated MARCH 21st, 1953

(Applicant)

By Andrew W Reid

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

MF-103 ANDREW W. REID P.O.BOX 489 FRANKLIN, N.C. * MICA *
LYLE KNOB MINE
MACON COUNTY

4. The Lyle Knob Mine, as owned by applicant, lies on the southwest slope of Lyle Knob, 4.9 air miles northeast of Franklin.

First work was done about 1880 by A. S. Bryson who sank the Bryson shaft on the ridge , with highly successful results. Work continued intermittently ever since, by means of many shafts, tunnels and cuts. About 18 years ago, applicant recovered and sold $10,000.00 worht of mica, from tunnels and shafts, from the section east of the Bryson Shaft. Out of the area below the Bryson Shaft, reached through Tunnel No. 1 (see sketch attached), $28,000.00 worth of very high grade ruby mica was sold to Colonial Mica Corporation; sheets to 8" x 8".

The "Geological Survey Professional Paper 225" records testing of 273 pieces, during last war, "100% E-1"; no mineral stain and types - 2, 5, 6.

The area is underlain by gray biotite gneiss, and includes muscovite, feldspar, quartz and local pink garnets. General trend is northeast to east, with steep dips to the northwest and north. About 10 pegmatite dikes occur in the area. They range in thickness from one to 40 feet.

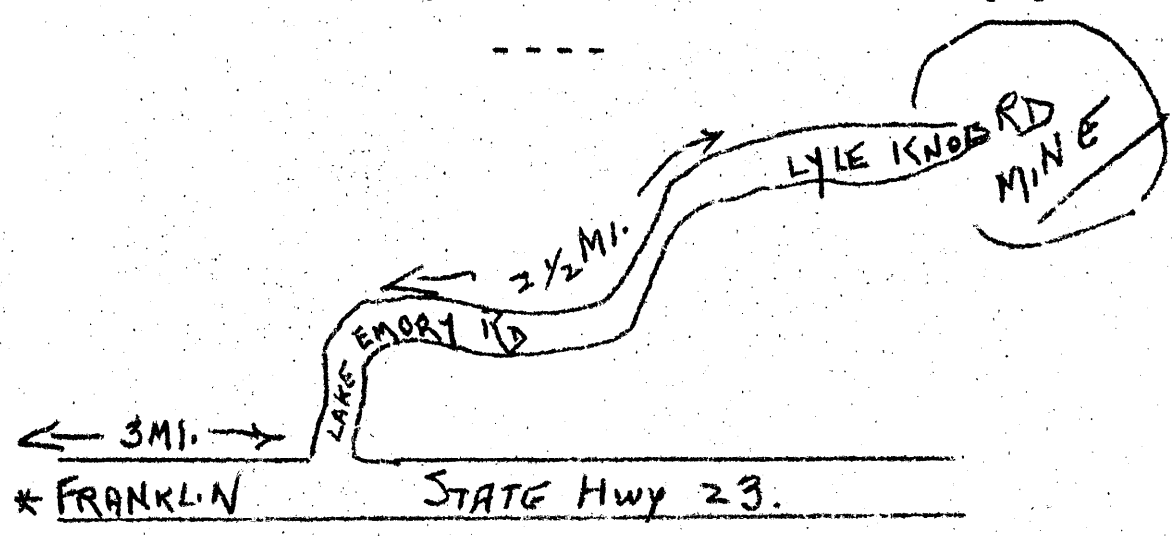
Most extensively worked has been Tunnel No. 1; 200 feet long, opening into a Y, under the Bryson Shaft.

The property is accessible over a road, constructed a few years ago, which leads directly to the mine workings.

Attached sketch locates the property in relation to Franklin; supply, shipping and residence points.

Sufficient manpower, supplies, etc., are available for all purposes.

- - - -



5. PROPOSED WORK - see sketch attached.

PROJECT 1:

It is proposed to rehabilitate 125 feet of Tunnel No. 1 and continue from that point, in an easterly direction for a distance of 100 feet, then to drift about 50 feet in a northerly direction and 50 feet in a southerly direction.

This will open up the area below the Bryson Shaft and past workings and permit large recoveries from that section.

PROJECT 2:

In this area, where applicant ~~because~~ BECAME familiar with the formation 18 years ago, it is proposed to dozer cut three (3) locations; each in approximately the same manner, i.e., 150 feet long, 25 feet wide, 12 feet at bottom; followed with two (2) test pits to 25 foot depths, with 50 feet of crosscutting and drifting from the test pits.

Project 1 is about 1000 feet distant from Project 2.

Work can start upon signing of contract and, if worked simultaneously, both projects can be completed within 50 to 60 working days. (2 shifts).

Applicant has more than 30 years experience in mica mining in the Franklin District and if familiar with every known method of mining, sheeting and processing. He will supervise the work.

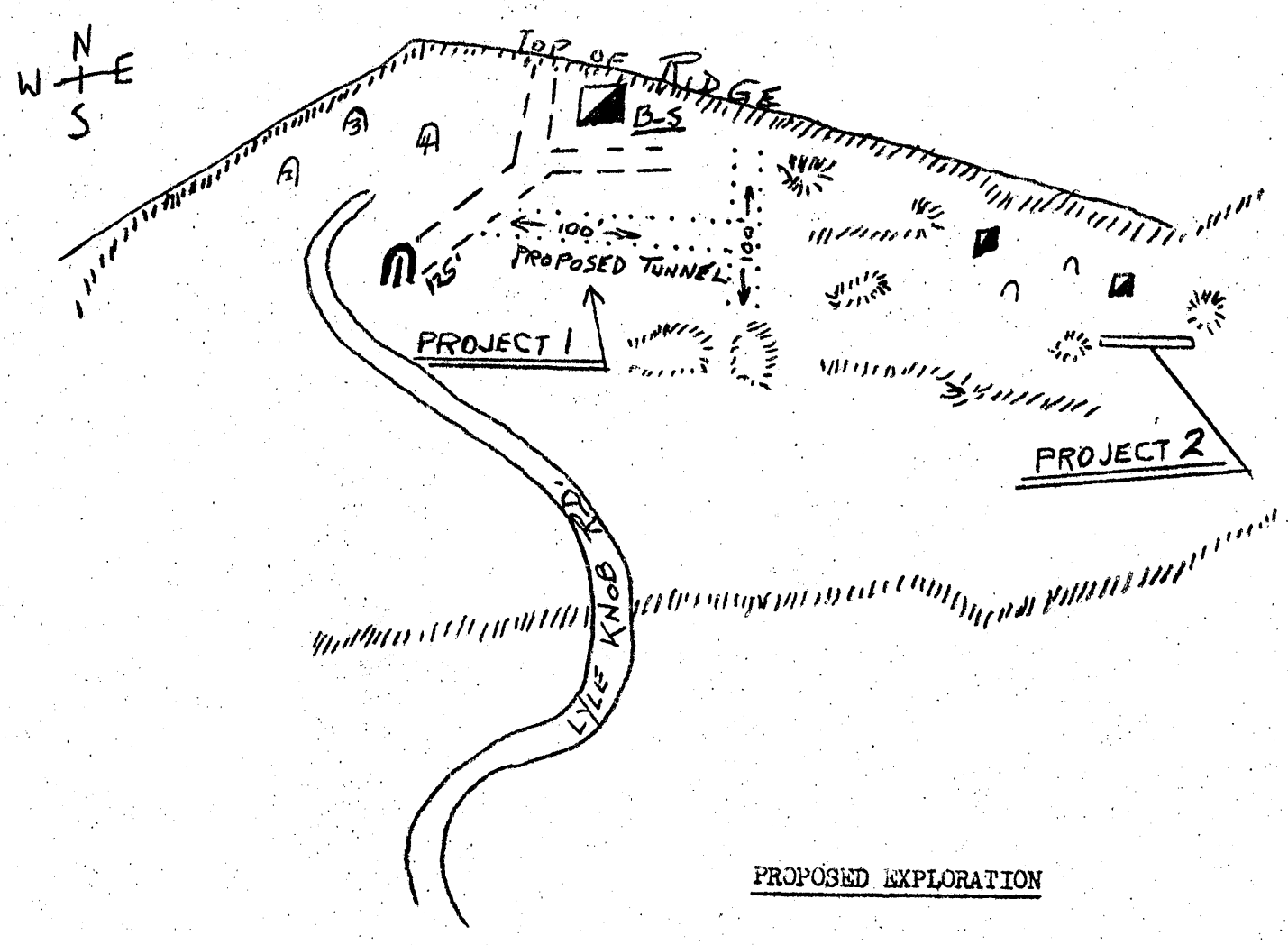
6. The proposed exploration will include one independent contract for bulldozing the cuts at Project 2. However, their location will have a large bearing on cost and applicant desires to consult with the Field Team regarding same.

It is anticipated that the balance of the work will be approved under a short form or footage basis contract; at prices which can be agreed upon between the Field Team and applicant.

Should any other contingencies arise, applicant will bear the cost of same.

- - - -

MF-103 ANDREW W. REID P.O.BOX 489 FRANKLIN, N.C. - MICA ⊖
LYLE KNOB MINE
MACON COUNTY



PROPOSED EXPLORATION

PROJECT 1:

150' tunnel with drifts

PROJECT 2:

3 dozer cuts with test pits and drifts

PEGMATITE & OUTCROPS

OLD SHAFTS & TUNNELS

B-S OLD BRYSON SHAFT

TUNNEL NO. 1.

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

June 1, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2946, Mica, Lyle Knob Mine
Macon County, North Carolina

I concur in the field team's recommendation to deny subject application on the basis that strategic mica is not likely to be found at this mine.

W. F. Dietrich

W. F. Dietrich

Please file in Permits

FILE COPY
SURNAME:

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

MAY 2 8 1953

Mr. Andrew W. Reid
P. O. Box 489
Franklin, North Carolina

Re: Docket No. DMEA-2946 - Mica
Lyle Knob Mine
Macon County, North Carolina

Dear Mr. Reid:

Your application for aid for an exploration project and other data available to us in Washington concerning your application have been reviewed.

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

Careful study of all our information, although noting a small amount of mica on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

LGHouk:fls 5/21/53

Copy to: Admr. R. File
Docket File
Field Team, Reg. VII
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232, GSA Bldg.
Mr. Houk

pb

IN REPLY REFER TO:

G-MD-CNM

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

May 22, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2946 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Andrew W. Reid, Franklin, North Carolina.
Name of property: Lyle Knob mine.
Location of property: On the east and southeast side of Lyle Knob, 4.9 miles N. 12° E. of Franklin, North Carolina.
Date of field team report: May 12, 1953.
Authorship of field team report: Teague and Shirley.
Field team's recommendation: Denial.
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D M Larrabee

D. M. Larrabee

UNITED STATES
DEPARTMENT OF THE INTERIOR

[illegible] EXPLORATORY [illegible]

[illegible] OF [illegible] BY [illegible], [illegible]

ON THE

(Date)

[illegible], [illegible]

By

Hoffman M. Beeman, Geologist
U. S. Geological Survey

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

May 12, 1953

Reviewed by
DMEA OPERATING COMMITTEE

5-22-53
(date)

GCS 5/26/53

Field Examination Report

on

Lyle Knob Mine - DMEA-2946, (mica) -

Applicant: Andrew W. Reid, P.O. Box 489, Franklin, N. C.

One large pegmatite hasbeen extensively mined on Lyle Knob and numerous smaller ones have been prospected to a considerable extent. Only the main Lyle Knob pegmatite has produced significant amounts of mica, and most of this production came from that side owned by T. D. Bryson, Jr. which has been the subject of two applications, DMA-1714X, and DMEA-2683, both of which were denied. The field examiners are of the opinion that the possibilities for discovery of a significant deposit at this place are poor, thus we recommend that the application be denied.

This deposit was examined on May 7, 1953. The applicant, Andrew W. Reid, accompanied the examiners on the inspection which required three hours.

That portion of the Lyle Knob Mine, subject to this application is on the east and southeast side of Lyle Knob 4.9 miles N. 12° E. of Franklin, Macon County, North Carolina. Access is possible at all seasons by 4-wheel drive truck.

Two areas are involved in thisapplication. Area I - involves the eastern end of the main Lyle Knob pegmatite. This pegmatite has been worked by a large open cut on the outcrop, which was continued downward by an open stope. No mica-bearing pegmatite is presently exposed, and previous workers (Parker, Stoll, etc.) are of the opinion that little mica remains.

Area II - is located between 100 and 200 yards southeast of Area I. At this place numerous north-south cuts have been made across the outcrop of thin burr pegmatites over a distance of about 200 feet. Several pegmatites occur, and the cuts on some of them have been supplimented by short drifts and shallow pits. None of the pegmatites appear of sufficient extent or to contain adequate mica to justify assistance.

Therefore, it is the opinion of the field examiners that this application should be denied.

May 12, 1953

Kefton H. Teague, Geologist- USGS

Lawrence E. Shirley, Mining Eng. USBM

zm

FILE COPY
SURNAME:

Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 602

APR 6 1953

Mr. Andrew W. Reid
P. O. Box 489
Franklin, North Carolina

Re: Docket No. DMEA-2946 - Mica
Lyle Knob Mine
Macon County, North Carolina

Dear Mr. Reid:

Reference is made to the subject application for exploration assistance on the Lyle Knob Mine. This mine has been the subject of DMEA applications 1714X and 2683 both having been denied.

It is not possible to determine from your application that your approach to further exploring this pegmatite differs materially from the previous plan. Please submit additional information on your work plan.

Please note mineral form MF-103, copy of which is enclosed, Article 6 requires the applicant to submit detailed cost estimates of the proposed work. Each sub-division (a) to (h) should be answered in as great detail as possible in order that this office may properly evaluate your application.

Please submit a metes and bounds description of the Lyle Knob Mine tract of land and the book and page of recording of the deed from which the description was obtained.

Sincerely yours,

SIGNED

4/6/53

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosure
LGHouk:gad 4/3/
Copy to: Admr. R. File
Docket File
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Field Team, Region VII
Mr. Houk

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

April 2, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 3 1953

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2946, Lyle Knob Mine,
Macon County, North Carolina

Bureau of Mines records indicate 72.37 pounds of full trimmed mica valued at $578.96 and 166 pounds of punch mica valued at $49.80 were sold to Colonial Mica from this mine in 1945 and an average monthly sale from May to September 1944 of $510.21. It is recommended the field team be requested to evaluate the proposed program to ascertain if an exploration program is justified.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

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

March 26, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 2 1953

Memorandum

REVIEW OF APPLICATION DMEA-2946 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: A. W. Reid.
Name of property: Lyle Knob.
Location of property: 5 miles N. 12 E. of Franklin, Macon County, North Carolina.
Estimated cost of project: Not stated.
Summary of applicant's proposal:
Project 1: Extend Adit No. 1.
Project 2: Bulldozer work in locality 1,000 feet away.
Sources of information on applicant's property:
1. DMEA 1714.
2. DMEA 2683.
Comments:
1. The two previous applications were denied because they were considered development by DMEA.
2. Reid's "Project2" may be in an area that the field examiners have not previously seen. Nevertheless, unless Reid can provide better evidence than he has, we are not justified in sending the field team to this property a third time.
3. The letter denying DMEA-2683 should have stated that the reason for denial was that the application was for development rather than exploration.

RECOMMENDATION:
Denial.

J. J. Norton

Book & page of record.

DMEA 2683 Denial

March 24, 1953

Mr. Andrew W. Reid
P. O. Box 489
Franklin, N. C.

Subject: DMEA-2946
Re: Exploration Assistance
Lyle Knob Mine

My dear Mr. Reid:

The receipt of your application dated March 21, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2946 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-2946 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 24 1953

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

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

Not to be filled in by applicant

Docket No. Amer 2946
Metal or Mineral
Date Received 3-24-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

ANDREW W. REID
P. O. BOX 489
FRANKLIN, N. C.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract BEING the lands known as State Grant No. 3022, consisting of 233 acres, more or less, as deeded by the Macon County Commissioners to A. W. Reid, which deed is recorded in the office of the Register of Deeds for Macon County.

(*b*) State any mine name by which the property is known. LYLE KNOB MINE

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it NONE

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore STRATEGIC RUBY MICA

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated MARCH 21st, 1953

(Applicant)

By Andrew W Reid

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

MF-103 ANDREW W. REID P.O.BOX 489 FRANKLIN, N.C.

* MICA *
LYLE KNOB MINE
MACON COUNTY

4. The Lyle Knob Mine, as owned by applicant, lies on the southwest slope of Lyle Knob, 4.9 air miles northeast of Franklin.

First work was done about 1880 by A. S. Bryson who sank the Bryson shaft on the ridge , with highly successful results. Work continued intermittently ever since, by means of many shafts, tunnels and cuts. About 18 years ago, applicant recovered and sold $10,000.00 worht of mica, from tunnels and shafts, from the section east of the Bryson Shaft. Out of the area below the Bryson Shaft, reached through Tunnel No. 1 (see sketch attached), $28,000.00 worth of very high grade ruby mica was sold to Colonial Mica Corporation; sheets to 8" x 8".

The "Geological Survey Professional Paper 225" records testing of 273 pieces, during last war, "100% E-1"; no mineral stain and types - 2, 5, 6.

The area is underlain by gray biotite gneiss, and includes muscovite, feldspar, quartz and local pink garnets. General trend is northeast to east, with steep dips to the northwest and north. About 10 pegmatite dikes occur in the area. They range in thickness from one to 40 feet.

Most extensively worked has been Tunnel No. 1; 200 feet long, opening into a Y, under the Bryson Shaft.

The property is accessible over a road, constructed a few years ago, which leads directly to the mine workings.

Attached sketch locates the property in relation to Franklin; supply, shipping and residence points.

Sufficient manpower, supplies, etc., are available for all purposes.

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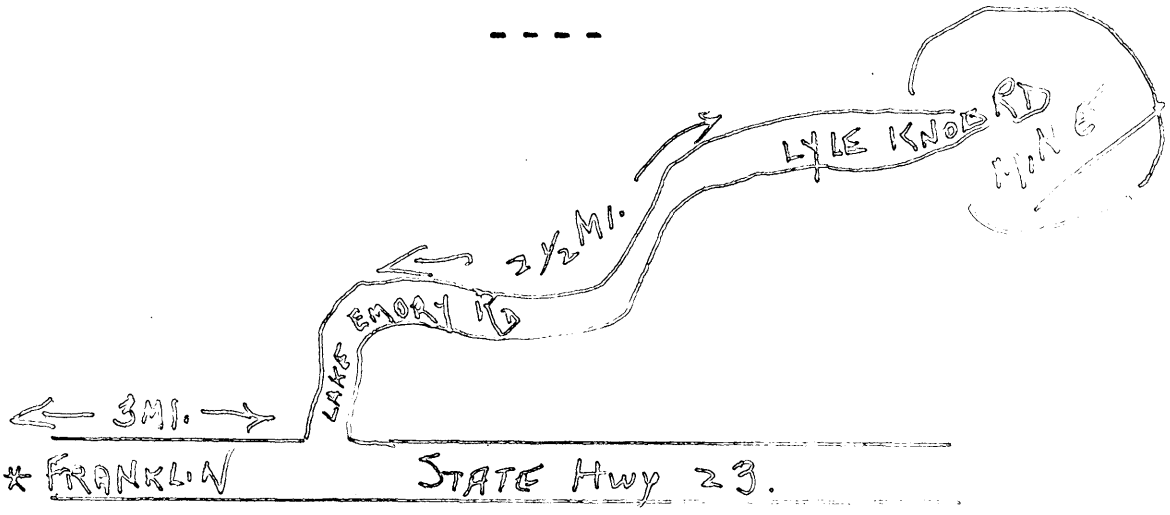

5. PROPOSED WORK - see sketch attached.

PROJECT 1:

It is proposed to rehabilitate 125 feet of Tunnel No. 1 and continue from that point, in an easterly direction for a distance of 100 feet, then to drift about 50 feet in a northerly direction and 50 feet in a southerly direction.

This will open up the area below the Bryson Shaft and past workings and permit large recoveries from that section.

PROJECT 2:

In this area, where applicant ~~because~~ BECAME familiar with the formation 18 years ago, it is proposed to dozer cut three (3) locations; each in approximately the same manner, i.e., 150 feet long, 25 feet wide, 12 feet at bottom; followed with two (2) test pits to 25 foot depths, with 50 feet of crosscutting and drifting from the test pits.

Project 1 is about 1000 feet distant from Project 2.

Work can start upon signing of contract and, if worked simultaneously, both projects can be completed within 50 to 60 working days. (2 shifts).

Applicant has more than 30 years experience in mica mining in the Franklin District and if familiar with every known method of mining, sheeting and processing. He will supervise the work.

6. The proposed exploration will include one independent contract for bulldozing the cuts at Project 2. However, their location will have a large bearing on cost and applicant desires to consult with the Field Team regarding same.

It is anticipated that the balance of the work will be approved under a short form or footage basis contract; at prices which can be agreed upon between the Field Team and applicant.

Should any other contingencies arise, applicant will bear the cost of same.

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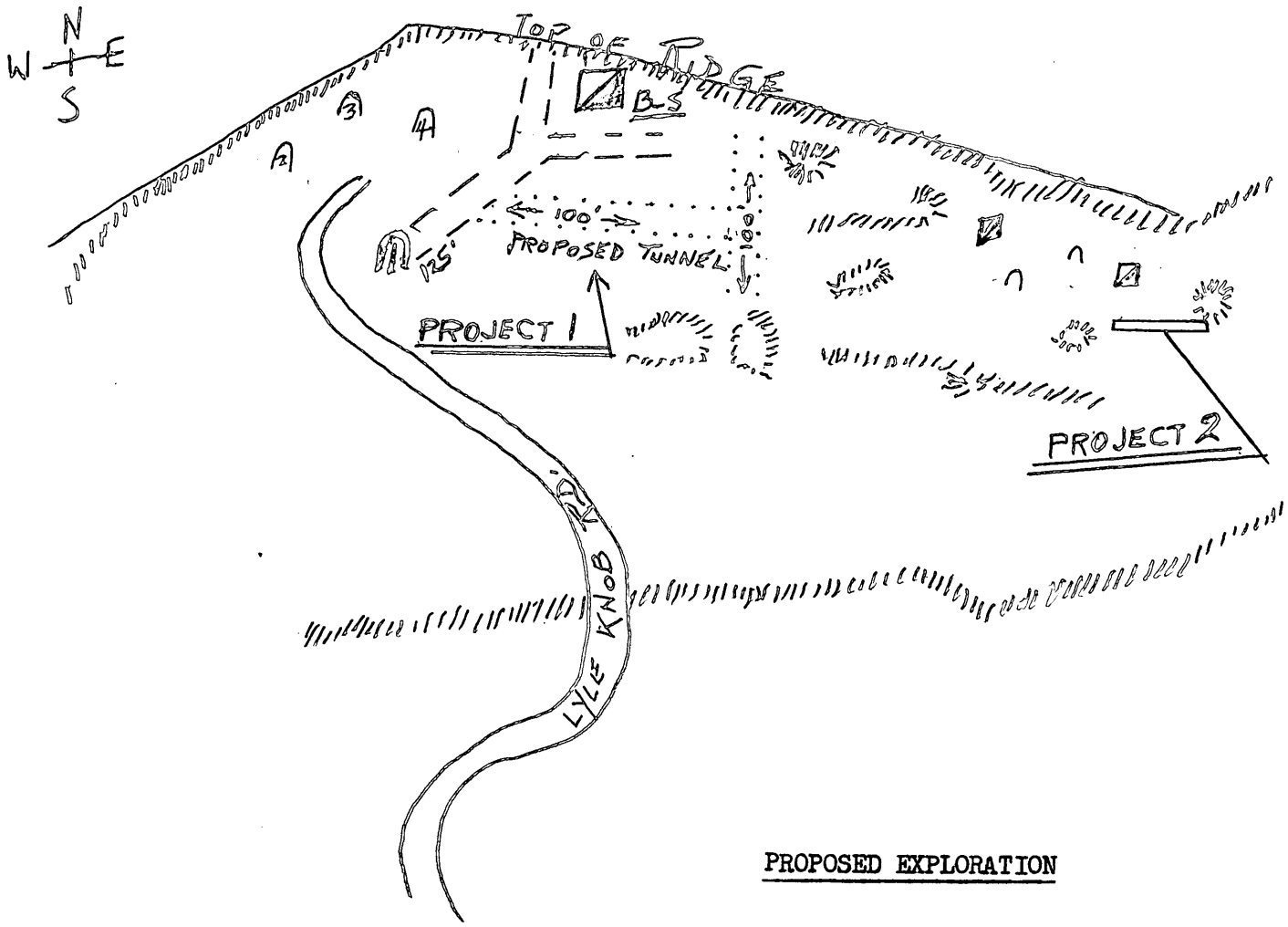
MF-103 ANDREW W. REID P.O.BOX 489 FRANKLIN, N.C. - MICA ⊖
LYLE KNOB MINE
MACON COUNTY



PROPOSED EXPLORATION

PROJECT 1:

150' tunnel with drifts

PROJECT 2:

3 dozer cuts with test pits and drifts

PEGMATITE & OUTCROPS

OLD SHAFTS & TUNNELS

OLD BRYSON SHAFT

TUNNEL NO. 1.