Mr. Zeb Angel

Franklin, North Carolina

Re: Docket No. DMEA-3311 - Mica
J. M. Lyle Mine
Macon County, North Carolina

Dear Mr. Angel:

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

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

Careful study of all our information indicates to us that the probability of disclosing significant reserves of mica 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

WCAnderson:gad 6/18/54
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

June 17, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance and summary report.

By: Walter C. Anderson

1. DMEA Docket No. 3311 - Mica

Property: J. M. Lyle Mine
Macon County, North Carolina

Applicant: Zeb Angel
Franklin, North Carolina

Application: Form MF-103, date received April 14, 1954
Work proposed: Construction of buildings, bulldozing, 80 feet of shaft and 100 feet of drift.
Amount requested: $7,935.00.
No contract: Application denied.

2. Comments:

Geological premise: No pegmatite exposed. Field Team's opinion is that the deposit is largely worked out and that pegmatite may have bottomed.

Geological criteria:
1. No pegmatite exposed.
2. Size, character and attitude of pegmatite is not known.
3. Mica is small in size.

Future possibilities - Remote for additional production of mica.

Recommendations: The Nonmetallic Minerals Division concurs with the field team that the application should be denied. The Geological Survey and the Bureau of Mines concur.

WCAnderson:gad 6/17/54
Copy to: Admr. R. Files
Mr. Houk

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

June 15, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Acting Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3311 (mica)

Applicant: Zeb Angel

Name and Location of Property: J. M. Lyle (Doc Lyle) Mines
Macon County, North Carolina

Date of Field Team Report: May 24, 1954

Date Rec'd. by Ceramic & Fertilizer Mtls. Br.: June 3, 1954

Field Team Recommendation:

1. Denial.

Comments:

1. The field team made two examinations of the subject mine within a period of less than a month.

2. As a result of these examinations they concluded that exploration assistance was not warranted because of the doubtful size of the pegmatite and indications that the pegmatite may have bottomed. In addition, operating difficulties would be encountered because of heavy ground and water conditions.

Recommendation:

I concur in the field team's recommendation to deny exploration at the subject mine.

Signed

Donald R. Irving

IN REPLY REFER TO:

G-MD-CNH

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

May 28, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3311 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Zeb Angel, Franklin, North Carolina
Name of property: J. M. Lyle Mine.
Location of property: Macon County, North Carolina.
Date of field team report: May 24, 1954
Authorship of field team report: K. M. Teague, L. S. Shirley, and D. H. Amos.
Field team's recommendation: Denial.
Comments: None.
ACTION RECOMMENDED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jch
5/28/54

cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee G-230

May 24, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII

Subject: Field Examination Report, DMEA-[illegible] (mine) J. M. [illegible] Mine, Stone County, North Carolina

Enclosed are 4 copies of the subject examination report.

The Field Team agrees with the recommendation for denial of this application.

Robert A. Lawrence

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

RAL/Mb
Enl
Beck
Lynch
Files
Mbr. Copy

Reviewed by
DMEA OPERATING COMMITTEE
6-2-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT BY FIELD TEAM, REGION VII

ON

DMEA-3311, J.M. LYLE MINE (mica)
Macon County, N. C.

BY

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

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

Dewey H. Amos, Geologist
U. S. Geological Survey

May 24, 1954

Reviewed by
DMEA OPERATING COMMITTEE
6-2-54
(date)

Field Examination Report on
DMEA-3311, J. M. LYLE (Doc Lyle) Mine
(Mica)

Applicant: Zeb Angel, Franklin, North Carolina

No pegmatite is exposed at present on the property, nor are there any underground workings accessible that are in pegmatite. Mica on the dump is of strategic quality but small in size. As the size, character and attitude of the pegmatite is not known and the extent and location of the underground workings are indefinite, it is recommended that exploratory assistance be denied. In addition, heavy ground and much water would create major difficulties.

The J. M. Lyle Mine is located on the west side of U. S. Highway 23, 1.4 airline miles N. 45° E. of the center of Franklin, Macon County, North Carolina.

Mr. Zeb Angel accompanied the examiners on two inspections which required a total of two hours. Examinations were made on April 27 and May 17, 1954.

No pegmatite is presently exposed on the property and the only accessible old working is a shaft in country rock that is partially filled with water.

An unpublished U.S.G.S. report by E. Wm. Heinrich, dated December 1944 gives the following information of the mine:

"The workings lie 25 to 50 feet west of U. S. Highway 23, and the main old dumps lie east of the road. The mine is owned by Mrs. Bessie Johnson of Franklin. It was operated first in 1909 by Dr. Lyle and later by Hardy Lyle and Zeb Angel, all of Franklin. A. W. Reid reopened it in 1928, then it remained idle until December 22, 1943, when M. A. Pearce (Rt.4 Franklin) cleaned out and began deepending the North Shaft. This operation ended August 10, 1944.

The workings trend N. 40° E. The northernmost is a slump pit, perhaps an old shaft, 25 feet long, 15 feet wide, and 15 feet deep. The North Shaft, which Mr. Pearce deepened from 42 to 65 feet, is 30 feet southwest of the pit. A crosscut from its bottom intersected the main pegmatite body, but as large quantities of water probably from old workings were encountered there, the mine was abandoned. The waste rock from the north shaft was dumped into the Central Shaft, 20 feet to the south, filling it completely. It was at least 30 feet deep. The south shaft, 50 feet south of the North Shaft, is filled with water to a point 45 feet beneath the collar."

" The deposit was worked to a depth of at least 65 feet. The shafts were sunk in gneiss, and crosscuts were driven southeast to the pegmatite body. The old workings were reported to be extensive. They are probably now caved.

The country rock is a weathered biotite gneiss whose foliation strikes N. 75° E. and dips 45° NW. The pegmatite body is reported to strike NE.-SW., but the dip is not known. It is probably crosscutting. The dumps indicate that the body contains blocky microcline probably in the core and a medium-grained intergrowth of greenish plagioclase, quartz, and a little biotite and muscovite probably in the wall zone. A few pieces of mica up to 2 inches in diameter were found on the dumps. The mineral is light brown in color, cracked and ruled, but generally hard and free splitting.

The deposit may be largely worked out. A large amount of money was spent in deepending the North Shaft and in driving the crosscut without adequate knowledge of the positions of old workings. Heavy ground and much water caused operational difficulties to the greatest depth yet reached. Reopening of the mine is not recommended."

No additional work has been done since the report was written. All openings described in this report are now caved except the North Shaft. It was taped to a 62-foot depth with water at about 50 feet.

In the opinion of the Field Examiners, exploratory assistance on the mine is not warranted because of the doubtful size and attitude of the pegmatite, the unknown extent and locations of underground workings, and the possibility that the pegmatite may have bottomed. Also, heavy ground and water conditions would be major operational hazards.

May 17, 1954.

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

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

APR 2 0 1954

Mr. Robert A. Lawrence
Executive Officer, RMMA
Field Team, Region VII
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Subject: Docket No. DMMA-3311 - Mica
Sub Angel
J. M. Lyle Mine
Mason County, North Carolina

Dear Mr. Lawrence:

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

The property to be explored is described as lying within 250 feet of the main mine shaft indicating a circular area about 4.3 acres. This office requires rectilinear descriptions tied to a known point in the legal description. Please advise the applicant of way requirements. Please ascertain whether the acreage is sufficient to sustain an exploration project.

Copies of memoranda from the Geological Survey, dated April 15, 1954, and from the Bureau of Mines, dated April 21, 1954, are enclosed for your information.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

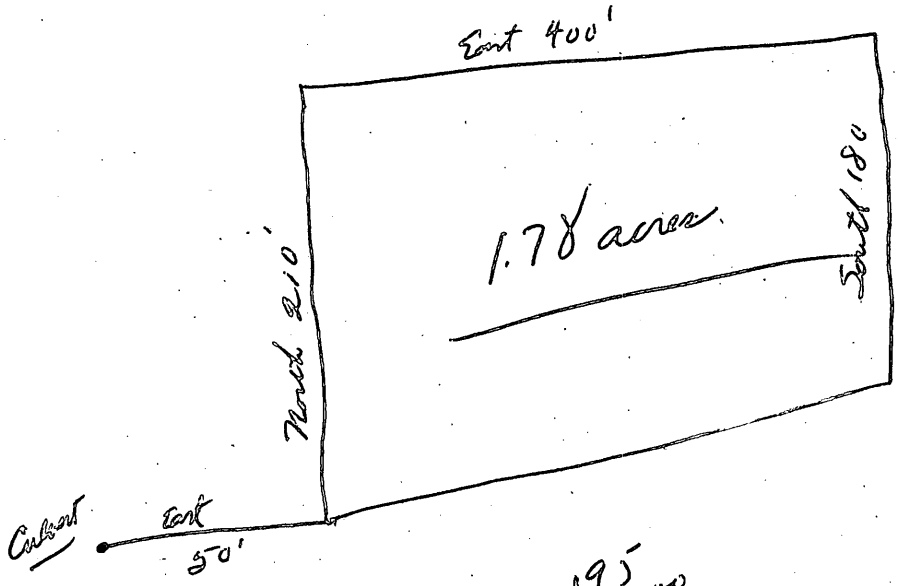
Approved:

J. H. Hedges
Director, Bureau of Mines

D. M. Larrabee
Director, Geological Survey

Enclosures 4

WGAnderson:gmd 4/27/54
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk



195
400
78000
4356
34440
30492
39480

4356

1.78

APR 2 9 1954

Mr. Bob Angel

Franklin, North Carolina

Re: Docket No. DMA-3311 - Mica
J. M. Iglo Mine
Macon County, North Carolina

Dear Mr. Angel:

Reference is made to the subject application for exploration assistance.

Please note in Article 3 (a) of MP-103, a blank copy of which is enclosed, that the legal description of your land is required. This legal description should state the bounding bearings and distances enclosing the area, and the total acreage all tied to a known point in the legal description. A map, if available, of your property or surroundings would be helpful.

On March 19, 1954, DMA Order-1, Amended, became effective and continues the limiting of Government participation in the cost of mica to 75 percent of the approved costs. This limitation became effective on November 3, 1953, by Amendment No. 3 to DMA Order-1. A copy of the March 23, 1954, press release is enclosed for your information. Inasmuch as your application was received after November 3, 1953, please advise this office in writing if you desire to have your application processed under the new Government participation rate.

Kindly furnish this office with the above requested information as soon as practicable. Meanwhile, your application has been referred to the field for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures 2

WEmberson:gad 4/27/54
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Operating Committee

Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Hook

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

April 21, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3311

Applicant: Zeb Angel

Name and Location of Property: J. M. Lyle Mine
Macon County, North Carolina

Date Application Rec'd. by Ceramic & Fert. Mats. Br.: April 14, 1954

Comments:

1. No data available in this office on subject mine.

2. Proposed exploration is by sinking 80-foot shaft and drifting 100 feet and is consistent with local engineering practices.

3. Applicant is well known to the field team and has operated other mines under the DMEA program.

4. Estimated costs - $7,935.

Recommendation:

It is suggested the field team examine this mine to ascertain if an exploration program is justified.

Signed
W. F. Dietrich

Notes on DMEA-3311

1. Inadequate land description
2. 75% Govt participation ?
3. No shaft in pegmatite.
4. Survey says mine worked out

IN REPLY REFER TO:
G-MD-GMM

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

Memorandum

April 15, 1954

REVIEW OF APPLICATION DMEA-3311 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: Zeb Angel, Franklin, N. C.
Name of property: J. M. Lyle mine (Old Dee Lyle (Honeycutt)).
Location of property: Macon County, N. C.
Summary of applicant's proposal: 80' shaft
100' drift
$7,935

Sources of information on applicant's property:
U.S.G.S. ms. report, E. Wm. Heinrich, Dec. 1944
"Old workings extensive—to depth of at least 65'"
"All shafts collared in gneiss, with crosscuts SE to the pegmatite."
"Strike NE but dip unknown; workings inaccessible."
"The mine appears to have been worked out."
"A large amount of money was expended in deepening the north shaft, and in — crosscutting without adequate knowledge of the positions of old workings."
"Heavy ground and much water are other operational difficulties.
" The reopening of this mine is not recommended."

Comments:
1. No sketch of proposed exploration.
2. Is the work to be in pegmatite or just looking for it?
3. The fact that Zeb Angel himself worked this hole in 1914 raises the question of "why did he give up?"
4. In consideration of the above excerpts, I take a very dim view of this application, and will vote to deny it unless something startlingly new is found by the Field Examiners, and excellent evidence is presented in favor of the deposit.

RECOMMENDATION:
Refer to Field Team for examination if necessary, and attach copy of this memorandum.

D. M. Larrabee

Larrabee:jeh
4/15/54
cc: DMEA 3 ✓
Director's reading 4212
~~Branch 4211~~
Branch reading 4212
Field Team
Larrabee G-230