May 16, 1955

Memorandum

To: The Files

From: Walter C. Anderson, Nonmetallic Minerals Division

Subject: Evaluation of application and field examination report

Docket No. DMEA-3736 - Mica
Lawrence S. Fenland and Richard C. Angel
Fenland Mine
Macon County, North Carolina

Denial of this application is recommended.

Mica - Mineral stained, poor quality, 90% non-strategic.

Pegmatite - Unzoned, emplaced in a fault zone, 2 feet thick by 30 feet long.

Old workings - Stripped 2 areas, one on the pegmatite 10 feet deep and 20 feet long.

Method of exploring - The applicants proposed a 60-foot shaft and 80 feet of drifting.

Economics - Very little previous production, about 4 0 pounds of block mica. 90% of mica is non-strategic quality and the pegmatite appears quite small. The DMEA and the commodity members from the Geological Survey and the Bureau of Mines concur in the Field Team's recommendation to deny the application

Walter C. Anderson
Nonmetallic Minerals Division

WCAnderson:pk 8/8/55
Copy to: Admr. R. Efle
Mr. Houk
Mr. Anderson

MAY 24 1955

Penland & Angel
Box 91
Franklin, North Carolina

Re: Docket No. DMEA-3736 - Mica
Penland & Angel
Penland Mine
Macon County, North Carolina

Gentlemen:

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. C. Mitterhof

Administrator

WCAnderson:gad 5/10/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Operating Committee
Mr. Dietrich, 3061
Mr. Killagaard, 5222
Mr. Hook

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

May 19, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3736 (mica)

Applicant: Lawrence S. Penland and Richard C. Angel

Name and Location of Property: Penland Mine
Macon County, North Carolina

Date of Field Team Report: 4-18-55

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 5-18-55

Field Team Recommendation:

1. Denial of application.

Comments:

1. Trenching exposed a short, narrow pegmatite containing mostly nonstrategic mica.

Recommendation:

I concur with the field team recommendation of denial.

Signed

W. F. Dietrich

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
MAY 12 1955

May 10, 1955

Re: DMEA-3736
Penland & Angel
Penland Mine
Macon Co., N. C.
Mica

Memorandum

To: L. G. Rook, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the Field Team's recommendation of denial. The exposed mica is mostly of non-strategic quality, and the pegmatite appears to be rather small.

R. D. Trace

RDTrace:hlm
G-5/10/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061 Interior

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT, REGION V

On

DMEA-3736, PENLAND MINE
(mica)
Macon County, N. C.

BY

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

and

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

April 18, 1955

FIELD EXAMINATION REPORT
On
DMEA3736 (mica) PENLAND MINE

Applicants: Lawrence S. Penland and Richard C. Angel, Box 91, Franklin, N. C.

A thin pegmatite has been explored on this property. Although considerable mica has been recovered from the limited opening, all is mineral-stained and generally of poor quality. The Examiners recommend this application be denied, because most of the mica is of non-strategic quality.

The deposit was examined April 18, 1955. Messrs. Lawrence S. Penland and Richard C. Angel accompanied the examiners on the inspection which required three hours.

The Penland Mine is southwest of Nickajack Gap, 5 airline miles S. 30° E. of Franklin, Macon County, N. C. Access is possible at all times by jeep.

The applicants have stripped two areas at this place, one of which exposed pegmatite. They have made a cut 10 feet deep and 20 feet long on this pegmatite.

The pegmatite is exposed on strike for 30 feet. It probably is not much longer. Maximum thickness exposed is two feet. It strikes N. 10° E., dips vertically, and plunges 10-20° N. It is emplaced in a fault zone and has been displaced at numerous points by post-pegmatite movement, although the mica is not especially ruled. The pegmatite is composed of quartz, potash feldspar, soda feldspar, and mica. There is no apparent zoning. Mica appears to be scattered rather uniformally throughout the entire pegmatite.

The applicants have recovered approximately 1000 lbs. of mica from the openings. Sizes up to 10 inches across occur. The mica is hard and generally flat. It is dark green in color, some books are tied, and all are badly spotted. A small amount of strategic mica could be recovered from the deposit; however, it is estimated that 90 percent is non-strategic. Furthermore the pegmatite appears to be of limited extent.

From the above it is apparent that this deposit offers little promise of the discovery of a worthwhile deposit. Therefore, the examiners recommend that the application be denied.

Inspected: April 18, 1955.

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

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

APR 11 1955

Penland & Angel
Box 91
Franklin, North Carolina

Re: Docket No. DMEA-3736 - Mica
Penland & Angel
Penland Mine
Macon County, North Carolina

Gentlemen:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Lawrence, Executive Officer, DMEA Field Team, Region V, Room 13, Post Office Building, Knoxville 2, Tennessee, 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. Bittenbert

Administrator

WGAnderson:gad 4/7/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

APR 11 1955

600

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

Subject: Docket No. DMEA-3736 - Mica
Penland & Angel
Penland Mine
Mason County, North Carolina

Dear Mr. Laurence:

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

Copies of memoranda from W. F. Dietrich of the Bureau of Mines, dated April 4, 1955, and from E. L. Newcomb of the Geological Survey, dated April 4, 1955, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures 4

WCAnderson:gad 4/6/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
APR - 5 1955

April 4, 1955

Re: DMEA-3736
L. S. Penland and
R. C. Angel
(Penland Mine)
Mason Co., N. C.
$6,085 - Mica

Memorandum

To: L. G. Rank, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant has proposed to explore a new pegmatite occurrence by sinking 60 feet of shaft and drifting 80 feet.

We do not have any information on this prospect in our files.

Although the application material does not fully justify the proposed work, it does indicate that this new prospect should be examined by the Field Team. It is possible that additional trenching will be needed before a shaft site can be properly located.

I recommend this application be referred to the Field Team for their review and an examination if they consider it is warranted.

E. L. Newcomb

ELNewcomb:hlm
G-4/4/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061 Interior

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 5 1955

April 4, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3736 (mica)

Applicant: Penland and Angel

Name and Location of Property: Penland Mine
Macon County, North Carolina

Date Application Rec'd. by Br. of Ceramic & Fert. Mtls.: 3/28/55

Comments:

1. A four foot pegmatite vein is exposed.
2. Inspection of the exposures should determine the possibility of an exploration project.
3. Itemized costs are in line with other DMEA projects.

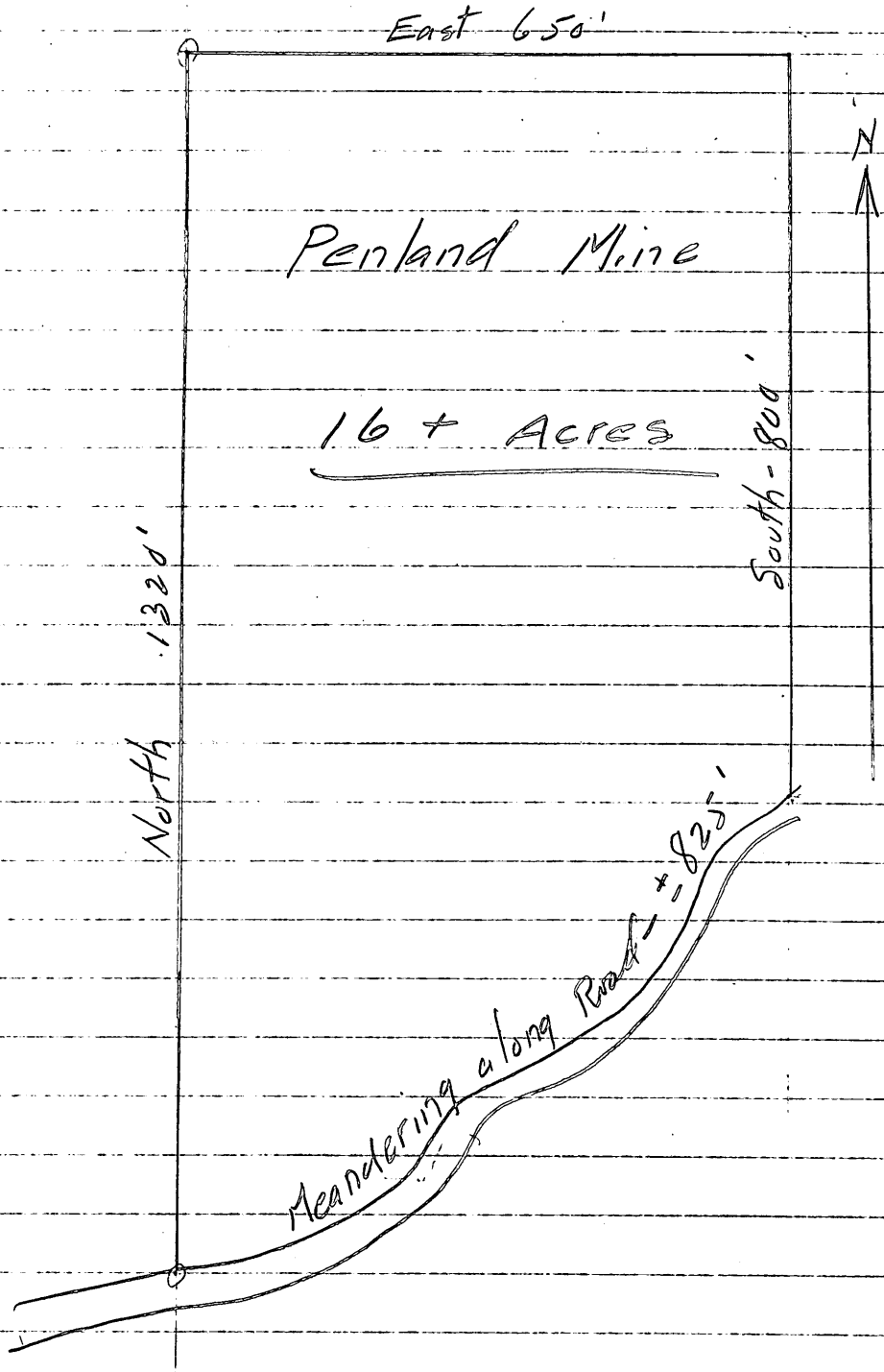
Recommendation:

It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

Signed

W. F. Dietrich

Scale - 1" = 200'.



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