600

JUL 12 1954

Mr. Edgar Carpenter
P. O. Box 206
Warrensburg, New York

Re: Docket No. DMEA-3320 - Mica
Edgar Carpenter Property
Warren County, New York

Dear Mr. Carpenter:

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

LGHouk:gad 6/29/54
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region VIII
Mr. Dietrich, 3061
Mr. Larrabee, 5216
Mr. Houk

July 1, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Denial of exploration assistance.

Docket No. DMRA-3320 - Mica
Edgar Carpenter
Edgar Carpenter Property
Warren County, New York

The application was received April 21, 1954, requesting $17,100.00 to build an access road and bridge, cut a 110 foot trench along the lower contact of the pegmatite dike approximately 28 feet deep at top and about 80 feet at base, and drill and blast before bulldozing.

The Field Team recommends denial of the application because the low recovery and sporadic occurrence of the strategic mica are sufficient reasons to discourage further exploration either by private financing or with Government assistance. The Nonmetallic Minerals Division concurs with the Field Team that the application should be denied. The Bureau of Mines and the Geological Survey also concur.

LGHouk:gad 7/1/54
Copy to: Admr. R. File
Mr. Houk

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

Defense Minerals Administration
RECEIVED
JUL 8 - 1954

July 6, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3320 (mica)

Applicant: Edgar Carpenter

Name and Location of Property: Edgar Carpenter Property
Warren County, New York

Date of Field Team Report: June 23, 1954

Date Rec'd. by Ceramic & Fertilizer Mtls. Br.: July 1, 1954

Field Team Recommendation:

1. Denial of application.

Comments:

1. Although strategic mica totaling 17.89 pounds was sold to the GSA depot from subject property, the examiners are of the opinion that sizable quantities of strategic mica do not exist.

Recommendation:

I concur with the field team that the application be denied on the basis that a deposit containing sufficient exposures for investing Government funds on exploration does not exist.

Signed
W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR

COPY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
College Park, Maryland

June 23, 1954

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. DMEA-3320 - (Mica)
Edgar Carpenter Property
Warren County, New York

In reference to your letter of May 18, enclosed are the original and three copies of a Field Team Report of Examination for the subject property.

/s/ W. T. Millar

Enclosures - 4

Reviewed by
DMEA OPERATING COMMITTEE
6-30-54
(date)

Field Team Report on Examination of Property

by
H. L. Burmeister and Glenn W. Stewart

DMEA Docket No. 3320 - (Mica)
Edgar Carpenter, P. O. Box 206, Warrensburg, New York

Summary

Three prospect pits have been made during 1952-1953, and two small opencuts were made during an earlier operation. From an estimated 175 tons of pegmatite removed in 1952-1953, about 600 pounds or 0.2 percent of mine-run mica were recovered. Mr. Carpenter stated that recent prospecting had cost about $1200., exclusive of cost of equipment use, and that his receipts from the saleable mica were about $347. after payment for trimming.

Conclusions

Although the quality of the mica recovered by recent work at the Carpenter mica prospect is very high, the quantity appears to be too small for a self-supporting operation. Furthermore, it would be unlikely that additional exploration would reveal any marked increase in the quantity of strategic mica in this pegmatite.

Recommendations

The Field Team representatives believe that the low recovery and sporadic occurrence of the strategic mica in this pegmatite are sufficient reasons to discourage further exploration either by private financing or with Governmental assistance. For the above reasons it is recommended that this application be denied.

Reviewed by
DMEA OPERATING COMMITTEE
6-30-54
(date)

Time spent on Property

This property was examined June 10, 1954 by Glenn W. Stewart, Geological Survey and H. L. Burmeister, Bureau of Mines. The Field Team representatives were accompanied by Mr. Edgar Carpenter, the applicant and

owner of the mineral rights. Seven hours were spent on the property and one day in writing the report.

Name and Location of Property

The Carpenter mica prospect is located in the town of Chester, Warren County, New York. It may be reached from the Village of Chestertown by traveling south on U. S. Route 9 for about 1.3 miles. Turn left on improved gravel road and travel about 1.0 mile to logging road on left, which followed for about 0.5 mile leads directly to prospect. (Fig. 1). The logging road has long been used and is not in need of repair.

Applicant's Competency and Property Rights

The applicant is actively operating his own business as an earth moving contractor and is probably financially responsible. Mr. Carpenter states that he is the owner of the mineral rights on this property, described as in Lot 85, Hyde Township, Town of Chester, Warren County, New York, and appearing as assessed to Williams & Company on the 1924 assessment roll of the Town of Chester.

Description of Property

Three prospect pits and two small opencuts are located on the northeast slope of a small, unnamed mountain. The workings extend over a distance of about 250 feet along a northerly direction. The largest pit is about 60 feet long, ranges from 10 to 20 feet wide, and has a maximum depth of about 15 feet. This pit and the most northerly workings are reported to have been made in, or prior to, 1921. Three prospect pits between the old workings were made in 1952-1953. (Fig. 2).

Geology, Production and Ore Reserves

The strategic mica at the Carpenter prospect occurs in an extremely irregular pegmatite which is enclosed in a mixture of coarse-grained gneiss and

schist (probably pre-Cambrian). The strike of the wall rock foliation is very irregular, ranging from N. 15°E. to N. 50°W. The foliation dips steeply southeast or southwest.

The pegmatite appears to pinch and swell irregularly, but has a general trend of N. 10°- 20°E. Inclusions of the wall rock are numerous and the largest one is as much as 20 feet long. The pegmatite is believed to dip steeply northwest, but only at the most northerly working could the dip be measured, between 80° and 90° NW. The pegmatite has a strike length of at least 245 feet and a maximum outcrop width of about 65 feet.

Most of the pegmatite is medium-grained, but the texture ranges from fine to coarse. The fine-grained parts are at, or close to, the contacts. Streaks of gneiss and schist are intimately related to the pegmatite, but are not shown separately on the accompanying map. The wall rock contacts are gradational in most places, but the contacts between the pegmatite and inclusins are relatively sharp.

It is estimated that about 92 percent of the pegmatite is composed of a mixture of microcline-perthite, quartz, and plagioclase. Biotite is estimated to be 6-8 percent, muscovite 1 percent or less. Tourmaline is a common accessory mineral, but is less than 1 percent. These minerals do not appear to be in any recognizable zones or visible concentrations. However, in places the white, microcline-perthite crystals are as much as 12 inches long and 10 inches wide. In general, masses of gray quartz are of comparable size. In places, coarse intergrowths of quartz and microcline-perthite exhibit a crude, graphic granite appearance. Biotite mica occurs most commonly in irregular shaped books that average 3"x 4", but in places, lath-shaped books are at least 18" long and 4" wide.

The muscovite mica books are generally small (2" x 3") but Mr. Carpenter reports that one book was about 10" x 12" x 2". Most of the muscovite is clear and hard, flat, relatively free from cracks, and has a rum color. The occurrence of the muscovite is sporadic or unevenly disseminated. No mica zone is visible, or were books sufficiently concentrated in the visible parts of the pegmatite to suggest locations for new prospect pits. The prospect pits which have been made are at, or close to, the walls of the pegmatite.

From the analysis of the mica taken from the prospect pits and purchased by the Materials Purchase Depot at Franklin, N. H., the quality of the mica can be noted.

	Pounds	Price per Pound	Amount
Good Stained and Better			
Grades No. 3 and larger	1.8750	$70.00	$131.25
" No. 4 and 5	3.8638	40.00	154.55
" No. 5½ and 6	10.4625	15.00	156.94
Stained			
Grades No. 4 and 5	.5268	$ 8.00	4.21
" No. 5½ and 6	1.1625	5.00	5.81
		(Average Price)	
Totals -	17.8906	$25.31	$452.76

	Pounds	Percent of Total Pounds
Good Stained	16.2013	90.5576 %
Stained	1.6893	9.4424 %
	17.8906	100. %

The amount of strategic mica that remains in the unmined parts of the pegmatite is believed to be small. The mica recovered from the three prospect pits represents a recovery of about 0.2 percent (600 pounds of mine-run mica from about 175 tons of pegmatite).

Supplies, Equipment, Wage Scale

Materials, supplies and equipment are readily available near the property. Surface labor and drillers can be employed at the hourly rates of $1.15 and $1.50, respectively. Underground workers are not available in this immediate area.

Discussion of Applicant's Proposal

Although assistance in exploration is not recommended, the applicant's submitted costs are reviewed below:

a) No expenditure for access road or bridge would be justified.

b) Excavation of 5,000 cu. yds. of material, mostly waste, could not be properly considered as exploration, and if the application were approved, should be replaced by trenching.

c) Services of a consulting engineer would be unnecessary and the cost of testing samples would not be justified.

d) Use cost of equipment has been calculated on a rental basis although the applicant owns all equipment.

e) The cost of dynamite as submitted is estimated to be about 50 percent of what the actual cost would be.

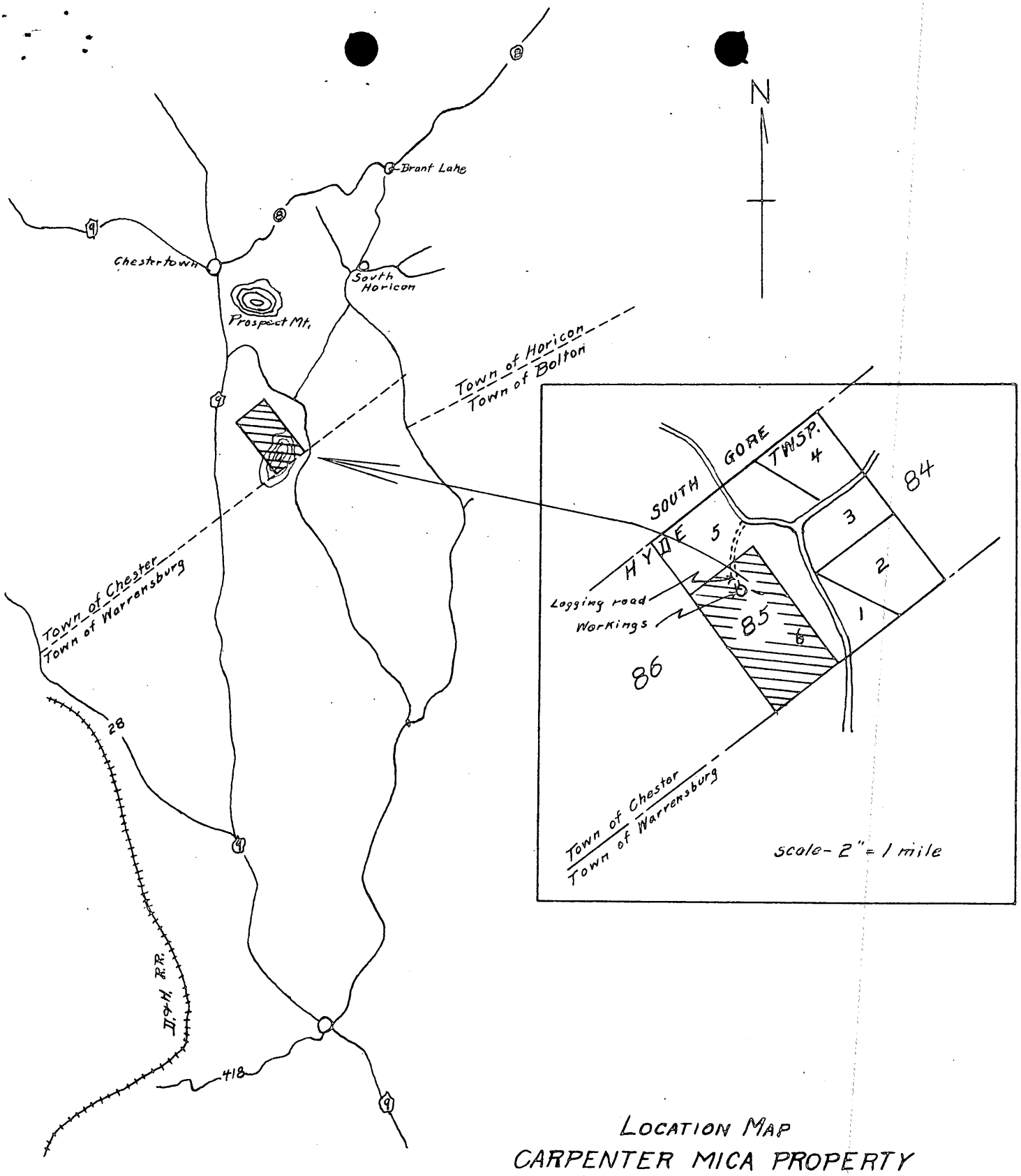
f) Labor cost for drilling and blasting under existing conditions is estimated to be about 25 percent low.

If this application had been recommended, a revision of costs would have been necessary.

W. T. Millar, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

Quentin D. Singewald, U. S. Geological
Survey Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

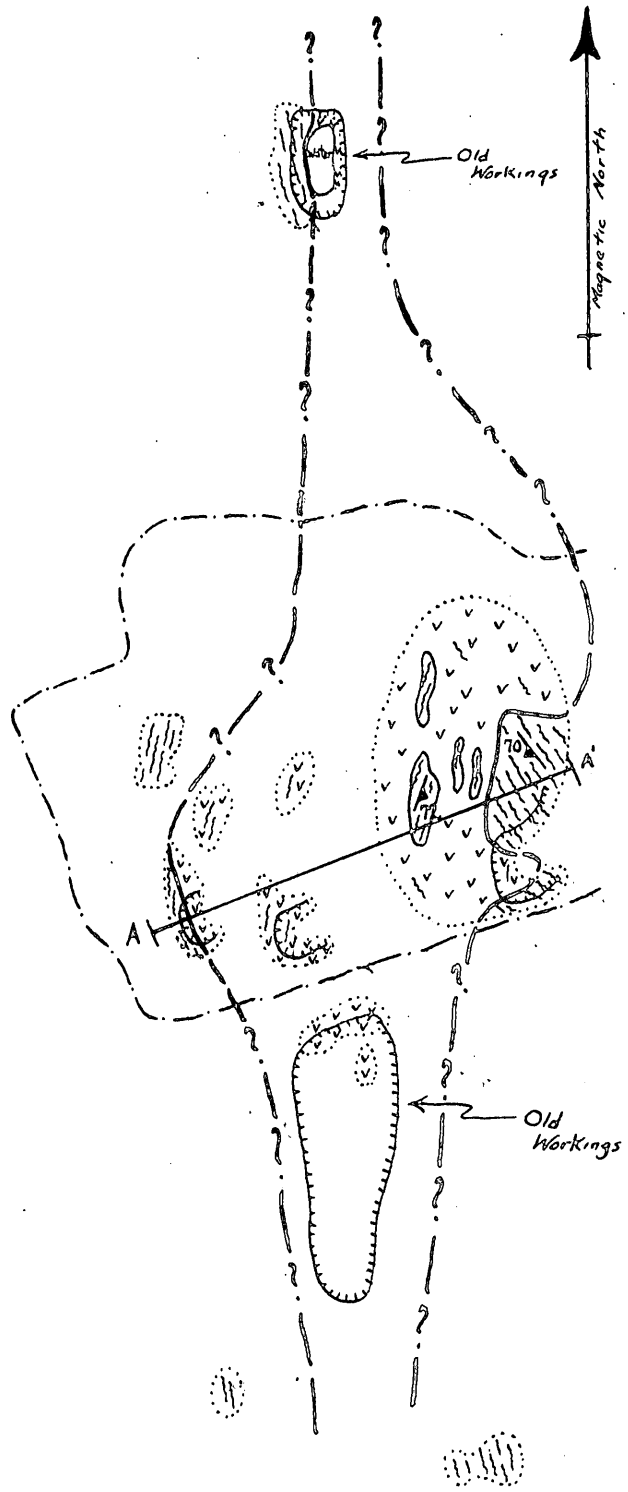
College Park, Md.
June 21, 1954

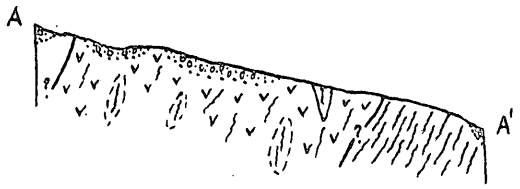


LOCATION MAP
CARPENTER MICA PROPERTY
WARREN COUNTY, N.Y.
DMEA DOCKET No. 3320

Scale- 1" = 2 miles

FIG. 1





Scale
1 inch = 40 feet

EXPLANATION

- Overburden
- Pegmatite – includes streaks of gneiss and schist
- Mixed gneiss and schist
- 70 — Contact showing dip; dashed where approximately located
- —?— Inferred contact
- —·—·— Outline of bulldozed area
- Edge of pit
- 70 Strike and dip of foliation

FIG. 2

June 10, 1954
Glenn W. Stewart USGS.

SKETCH MAP OF CARPENTER MICA PROSPECT

CHESTER, N.Y.

IN REPLY REFER TO:

G-MD-CRM

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

June 29, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMRA-3380 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Edgar Carpenter, Warrensburg, N. Y.
Name of property: Carpenter Mica Prospect.
Location of property: Near Chestertown, N. Y.
Date of Field Team Report: June 21, 1954.
Authorship of Field Team Report: E. L. Burmeister and G. W. Stewart.
Field Team's recommendation: Denial.
Comments: Mica of poor quality and erratic distribution, with little chance of success.
ACTION RECOMMENDED: Follow Field Team's recommendation.

D. M. Larrabee

Larrabee:jeh
6-6/29/54
cc: Director's reading 4212
Branch reading 4212
DMRA 3
Larrabee 5218 Interior

600

MAY 18 1954

Mr. W. T. Millar
Executive Officer, DMEA
Field Team, Region VIII
Bureau of Mines
Eastern Experiment Station
College Park, Maryland

Subject: Docket No. DMEA-3320 - Mica
Edgar Carpenter Property
Warren County, New York

Dear Mr. Millar:

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

Copies of memoranda from the Geological Survey, dated April 23, 1954, and from the Bureau of Mines, dated May 7, 1954, are enclosed for your information.

We are in agreement with the comments in these memoranda that the exploration proposed by the applicant appears to be mining rather than exploration, and that the costs are high. We concur in the Geological Survey's suggestion that exploration of the pegmatite at or close to both contacts would be better than in the center. This could probably be done by bulldozing and test pitting.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

Philip W. Guild
Member, Geological Survey

Enclosures 4

WCAnderson:gad 5/14/54

Copy to: Admr. R. File
Operating Committee
Mr. Houk
Docket File
Mr. Larrabee, G-232 GSA Bldg.
Mr. Dietrich, 3061

600

MAY 1 8 1954

Mr. Edgar Carpenter
P. O. Box 206
Warrensburg, New York

Re: Docket No. DMEA-3320 - Mica
Edgar Carpenter Property
Warren County, New York

Dear Mr. Carpenter:

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. W. T. Millar, Executive Officer, DMEA Field Team, Region VIII, Bureau of Mines, Eastern Experiment Station, College Park, Maryland, for further consideration and possibly a field examination.

Please advise this office in writing if you desire to have your application processed under the new Government participation rate which is 75 percent of the approved cost.

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.

There is enclosed a Selected Bibliography on Mica compiled by the Geological Survey. Some of the publications listed may be of interest to you and are available at the Crandall Library in Glens Falls.

Sincerely yours,

H. O. Mittendorf

Administrator

Enclosure
Copy to: Admr. R. File
Docket File
Field Team, Region VIII
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk
Operating Committee

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

Defense Minerals Administration
RECEIVED
MAY 7 1954

May 7, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3320

Applicant: Edgar Carpenter

Name and Location of Property: Edgar Carpenter Prospect
Warren County, New York

Date Rec'd. by Ceramic & Fert. Materials Br.: April 22, 1954

Comments:

1. No data in this office on this property.

2. Mica obtained on this property was judged by GSA Purchasing Agent to be good quality mica.

3. Total costs of $17,100 appear to be excessive.

4. Applicant's proposal outlines a plan for mining the deposit, not one for exploration.

Recommendation:

It is suggested that the field team visit this property and determine if an exploration program is justified. If so, the applicant and field team should agree on a definite and proper exploration plan, with expenditures calculated on a unit-cost basis.

Signed

W. F. Dietrich

IN REPLY REFER TO:

(-[illegible]-CKK

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

April 23, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3320 (mica)

To: I. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: Edgar Carpenter, [illegible] Box 206, Warrensburg, New York.
Name of property: None.
Location of property: Hyde Township, Warren County, New York, about 3/4 mile south of Chestertown.
Summary of applicant's proposal:

1. 1/2 mile access road and small bridge.
2. Trench [illegible] cu. ft. of rock.

Sources of information on applicant's property:

If this mine was formerly known as the Chestertown or Wilson Brown, we have brief reports in our files (1943). They are very sketchy.

Comments:

1. Proposal appears to be mining rather than exploration.

2. The applicant has already done considerable work at his own expense, which certainly stands in his favor.

3. The region, although prospected many times for feldspar and mica, has yielded very little.

4. However, the pegmatites in the area have never been studied in great detail, and it is possible that proper exploration might locate a commercial sheet.

5. It is suggested that the applicant might both explore the pegmatite at and close to both contacts rather than in the center.

6. Mica sheets are more commonly associated with plagioclase feldspar than microcline. Plagioclase is usually more common near the margins.

7. Applicant is obviously unfamiliar with the geologic occurrence of mica in pegmatites, zoning of pegmatites, etc. A bibliography is attached, to be forwarded to him for his use. Some of them are available at the Crandall Library in Glens Falls, he should be advised.

8. A different plan of exploration is desirable.

9. Obviously this contractor (?) is set up for open pit mining, if anything should turn up.

10. Our help might be justified in this case—certainly more so than in a lot of others I can think of!

RECOMMENDATION:

Refer to Field Team for examination. Whether or not a project is approved, the applicant should be given some on-the-spot advice about mica occurrence, to help him in the future.

D. K. Larrabee

Attachment

cc: DMEA 3