DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3320

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Exploration Assistance

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Cys to USBM & USGS

Routing Slip

To:	600	Date	4/22/54
To:	Mr. Anderson	Date	4/27/54
To:	Open Corr	Date	5-17-54
To:	Open Corr	Date	7-9-54
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CONTROLLED DOCUMENT

DOCKET FILE
Surname:
Houk
Hedges
Stoell
Selfridge
Johnson

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

R.C.J.

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

Defense Minerals Administration
RECEIVED
JUL 7 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.

W. F. Dietrich

W. F. Dietrich

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

July 1, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Denial of exploration assistance.

Docket No. DMEA-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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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.

W. T. Millar

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

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

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.

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.

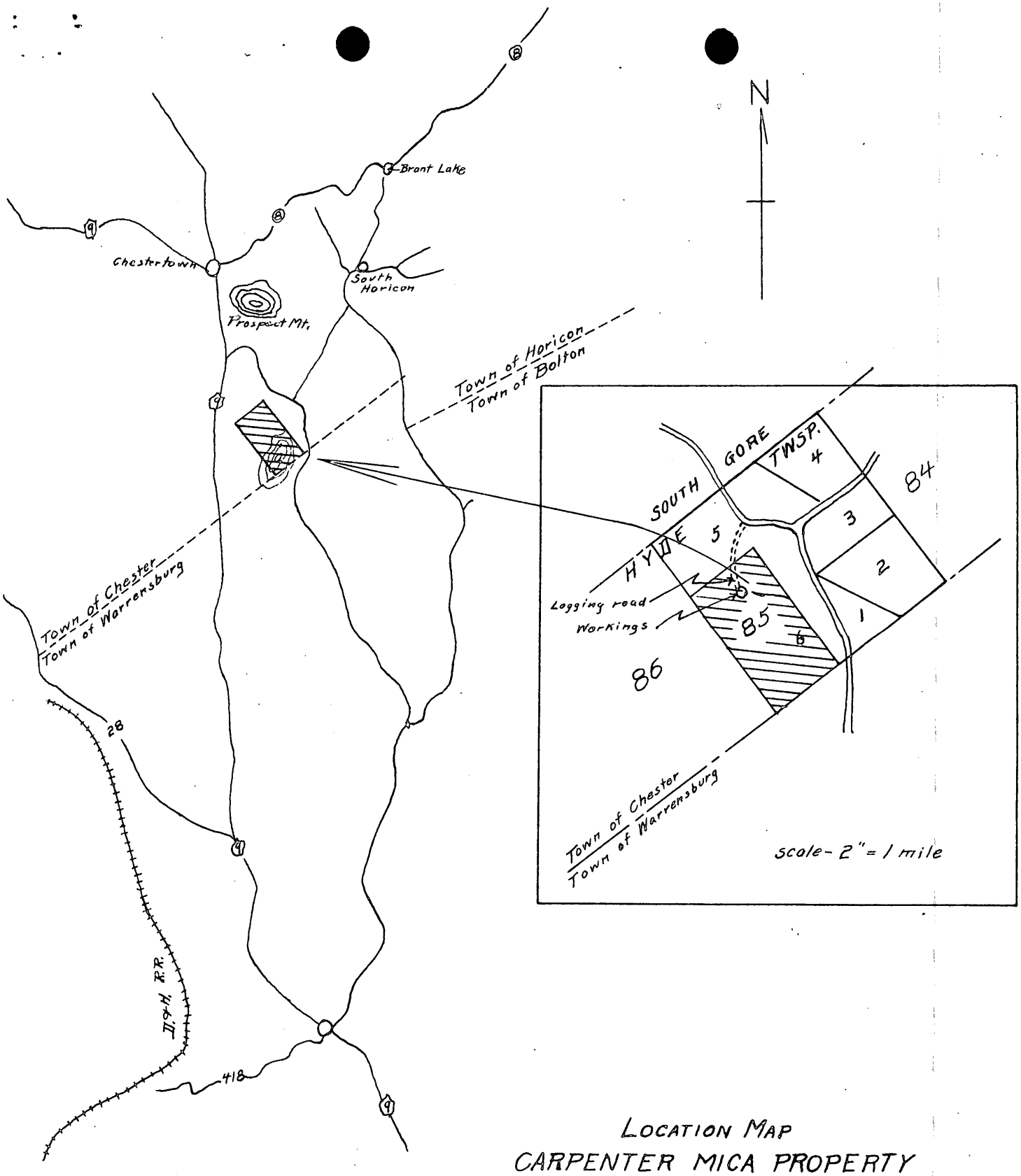
If this application had been recommended, a revision of costs would have been necessary.

W. T. Millar

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

College Park, Md.
June 21, 1954

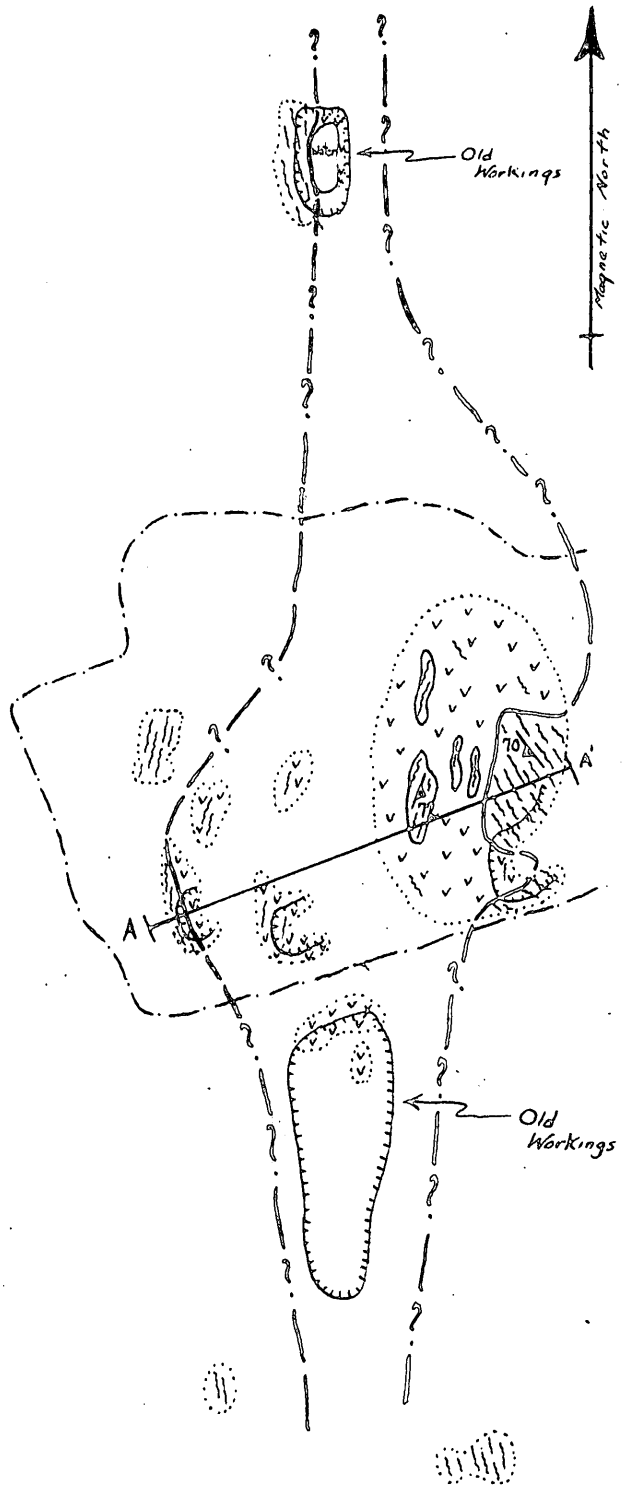
Quentin D. Singewald, U. S. Geological
Survey Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

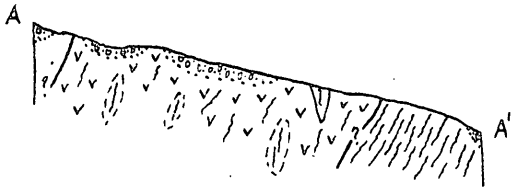


LOCATION MAP
CARPENTER MICA PROPERTY
WARREN COUNTY, N.Y.
DMEA DOCKET No. 3320

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

75 Strike and dip of foliation

FIG. 2

June 10, 1954
Glenn W. Stewart Lizab.

SKETCH MAP OF CARPENTER MICA PROSPECT

CHESTER, N.Y.

IN REPLY REFER TO:
G-MD-CNM

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

June 29, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3320 (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: H. 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

D. M. Larrabee

EDGAR CARPENTER

GRADING and EXCAVATING

Defense Minerals Administration
RECEIVED
MAY 2 5 1954

Phone 3255 Box 206 Warrensburg, N. Y.

May 21,1954

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

Mr. C.O.Mittendorf,
U.S.Dept. of the Interior,
Defense Minerals,
Exploration Administration,
Washington 25, D.C.

Dear Sirs :

In reply to your letter of May 18.

I am agreeable to having my application processed under the new Government participation rate of 75 percent of the approved cost.

I would greatly appreciate it if this could be processed in the very near future as there is a man with considerable drilling experience who is now available, and I feel he would be a great help on the project.

Yours truly,

Edgar Carpenter

EC/k

Edgar Carpenter

U. S. GEOLOGICAL SURVEY
RECEIVED
MAY 24 1954
CORRESPONDENCE & RECORDS

DOCKET FILE
Surname:
Anderson
Hyde
Hedges
Shutt
Selfridge
K Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 630

MAY 18 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. [illegible] 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,

C. 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

R.G.

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

DOCKET FILE
COPY

Anderson
Houk
Selfridge
Hedges

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 (JHB)

Approved:

J. H. Hedges (JHB)
Member, Bureau of Mines

Philip W. Guild (JHB)
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

R.C.S.

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.

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.

April 23, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3320 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: Edgar Carpenter, P. O. 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 5,000 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 shoot.
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 shoots 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. M. Larrabee

D. M. Larrabee

Attachment

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

April 22, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region VIII

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region VIII.

DMEA - 3320 Edgar Carpenter

Robert E. Adams
Chief, Operation's Control
and Statistics Division

April 22, 1954
Subject: DMEA-3320
Re: Exploration Assistance

Mr. Edgar Carpenter
P. O. Box 206
Warrensburg, N. Y.

Dear Sir:

The receipt of your application dated April 15, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3320 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-3320 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

Defense Minerals Exploration Adm.
DEMA
APR 21 1954

April 21, 1954

Memorandum

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

From: Executive Officer, DMEA, Region VIII

Subject: Edgar Carpenter's application for DMEA assistance in exploring for mica - Warren County, New York

Transmitted herewith are three copies of an application for assistance in exploring for strategic mica, submitted by Edgar Carpenter, Warrensburg, New York.

The application is well prepared, documentated by a consulting geologist's report and the cost estimate appears reasonable. A field examination is necessary to determine the justification for some of the proposed work.

The Mica Purchasing Depot, Franklin, New Hampshire was contacted by this office and received a favorable report on the mica from the Carpenter deposit. Also, the deposit was examined by a representative from the Franklin Depot. A copy of the comments is attached.

The area described in the application is new and has no previous record of production.

W. T. Millar

W. T. Millar

Enclosures

From letter of March 3, 1954 to WTMillar from RobertHBowman, Purchasing Agent, Franklin Purchasing Depot:

We enclose copy of letter written by Mr. Smith to Mr. Carpenter on April 9, 1953, and the following is a copy of Mr. Smith's report on his visit to Mr. Carpenter's mine on June 22 and 23, 1953:

> "I visited the mine of Edgar Carpenter in Warrensburg on which some work has been done. I laid out some drilling to expose the geology. The blasting was completed, mica was picked up and some feldspar was produced with the same blast. Some of the mica is of excellent quality and some feldspar is available of very good quality.
>
> "It is still too early to determine whether there is enough of either material to make a profitable operation. However, due to the fact that the mine is in a new area and that there are several other prospects in the locality, it seems that some more work should be done with the idea of finding out some of the potential of this new area."

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Defense Minerals Administration
RECEIVED
APR 21 1954

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. 3320
Metal or Mineral Mica
Date Received
Estimated Cost $17,100
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: Edgar Carpenter, P.O.Box 206, Warrensburg, N.Y.

(*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 The MINERAL RIGHTS on Lot 85, Hyde Township, in the town of Chester, County of Warren, N.Y., as appear assessed to Williams & Co. on assessment roll of town of Chester for the year 1924. Shown on attached map labeled exhibit "A".

(*b*) State any mine name by which the property is known. None

(*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 Moscovite block 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. As per attached map and attached narrative. Map "Exhibit B"

(*c*) The work will start within 30 days and be completed within 4 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 [x] 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 April 15, 1954

Edgar Carpenter
(Applicant)

By Owner.

Edgar Carpenter

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

Defense Minerals Administration
RECEIVED
APR 21 1954

Tahawus, N.Y.
May 21,1952

Mr. Edgar Carpenter
Warrensburg, N.Y.

Dear Mr. Carpenter:

The following is a summary of the information gathered after talking with you and visiting your property near Chestertown, N.Y.

Occurrence: The deposit is a typical coarse grained pegmatite intruded into a country rock composed of gneiss and schist. The exposures available for study consist of two old pits and an outdrop in a drainage run about 300 ft to the north. The larger of the two pits has had some recent blasting and bulldozing done it it.

The length of pegmatite exposed by the two pits is about 300 ft. Width is approximately 40 ft. Judging from the appearance of the walls of the smaller pit the contact between the pegmatite and the country rock is very steep.

The outcrop of pegmatite in the drainage run to the north showed books of mica up to 8 inches across. If this outcrop is an extension of the same body, and thereis a strong possibility that it is, the overall length of the pegmatite is in the order of 600 ft. It is impossible to determine what the depth might be - but a rule of thumb says that half the length is a reasonable assumption.

A small amount of stripping should determine the full extent of the pegmatite body.

Minerals: The following typical pegmatite minerals occur in the deposit.

White Microcline Feldspar	:	
Biotite Mica	:	
Muscovite Mica	:	Prevalent
Quartz	:	
Black Tourmaline		Common

The Microcline Feldspar is in large crystal masses that yield cleavage blocks up to a foot across with little contamination by other minerals except quartz, and that is probably not over 15%. Some areas of smaller crystallization show a skeletal growth of quartz crystals that give a graphic appearance where the quartz is abundant.

Both Muscovite and Biotite mica occur in books up to several inches across. Muscovite, the white mica of the trade, appears to be more prevalent on the western side of the deposit than through the center. Whether there is a similar increase of muscovite on the other side is not evident from the present pit exposure. The Muscovite books are solid, clean, and readily cleavable into sheets and blocks of hard, clean, elastic mica that are slightly smokey colored in 1/16 inch thicknesses. However, thin films appear practically colorless.

Black Tourmaline is common and is associated more closely with the quartz than with the feldspar. It is of no economic significance unless it contaminates the other minerals and decreases their value.

One crystal of apatite was found. It has no significance,

Economic Possibilities: As you know the government is buying white mica at the present time and will undoubtedly continue to do so for the next 3 or 4 years. Needless to say the price is very attractive. If the mica occurs throughout the pegmatite body in the same quantities as seen in the exposures, and there is no reason to doubt this, it could very easily support a small mining operation.

The amount and purity of the feldspar occurring in the pegmatite would indicate that a possible market for it should be looked into.

The location of the deposit would present no great difficulties in mining. It is up on a hill where one side of the open cut could be kept low, allowing for natural drainage. Only a small amount of road would be necessary for access.

In our opinion this deposit warrants further investigation.

Yours truly,

Walter M. Chapman Stanford O. Cross

Geological Engineers

Article

5 (a) Moscovite block mica.

(b) Description of proposed work :

To facilitate the transportation of equipment and men to the mine it will be necessary to construct approximately one half mile of access road from the town highway.(see exhibit "A" attached). We will have to construct a small bridge at one place on the access road to cross a creek.

The pegmatite dike which we wish to explore is located on the side of a mountain and as far as I know it strikes along the horizontal contours of the mountain slope.

The exploratory work which we wish to do will consist of cutting a trench along the lower contact of the pegmatite dike. The cross-section of the cut would be triangular, startingfrom 0 at the bottom of the slope and will be approximately 28 feet deep at the top. The horizontal base of the cut would be about 80 feet and the length of thecut about 110 feet, making an approximate total of 5000 cubic yards of material to excavate. (See exhibit "B" attached.)

The dike will have to be drilled and blasted before it can be shoveled or bulldozed. We estimate it will take us about four (4) months to complete all the work, including access road.

We own all the equipment necessary to complete the above work and it will be available as soon as you approve our proposal. The following is a list of the equipment we will use on the project . (Listed as 6 (d))

Article

6 Estimate of Costs.

1. Construction of approximately ½ mile access road.	$1,000.00
2. Excavate 5000 cubic yards of material @ $3.00 per cu.yd.	15,000.00
3. Salary Consulting Geologist 3 months, 3 days per month at $100.00 per day.	900.00
4. Testing 20 samples for grade of muscovite or/and biotite at $10.00 each	200.00
Total estimated cost	$17,100.00

Note - Breakdown of items 1 and 2 above :

1. Access Road :

a. Labor : Cutting trees, brush, and building small bridge, 2 men at $12.00 each per day	$240.00
b. One bulldozer, TD-14 International, 64 hours at $10.00 per hour (includes supplies, repair and operator)	640.00
c. One truck (transportation of men and supplies) 10 days at $12.00 per day	120.00
Total estimated cost of access road	$1,000.00

2. [illegible]

2. Estimated cost of excavating ditch per cubic yard :

a. Drilling and blasting :

Labor. 2 men - 3 months @ $91.66 each mth	$ 0.35	
2 - 160 cubic ft. compressors (rental)	0.10	
Supplies, gasoline, oil	0.10	
2- Jack hammers with hose and drill steel (rental)	0.05	
Dynamite 2.6 at 4¢/lb.	0.06	
Electric caps and wire	0.03	0.67

b. Moving material and boulders, shovel, and dump truck (when necessary) :

Labor. 4 men - 3 months @$30.00 each mth	0.40	
Materials and supplies	0.60	
Rental of above equipment	0.40	2.00

c. Transportation, men and supplies	0.05	.05
d. Supervision, $300.00 mth- 3 months	0.10	.10

Estimated cost excavating one (1) cu. yd. material $ 0.80
6,000 cu.yds. @ $3.00 per yd. $18,000.00

Article 6

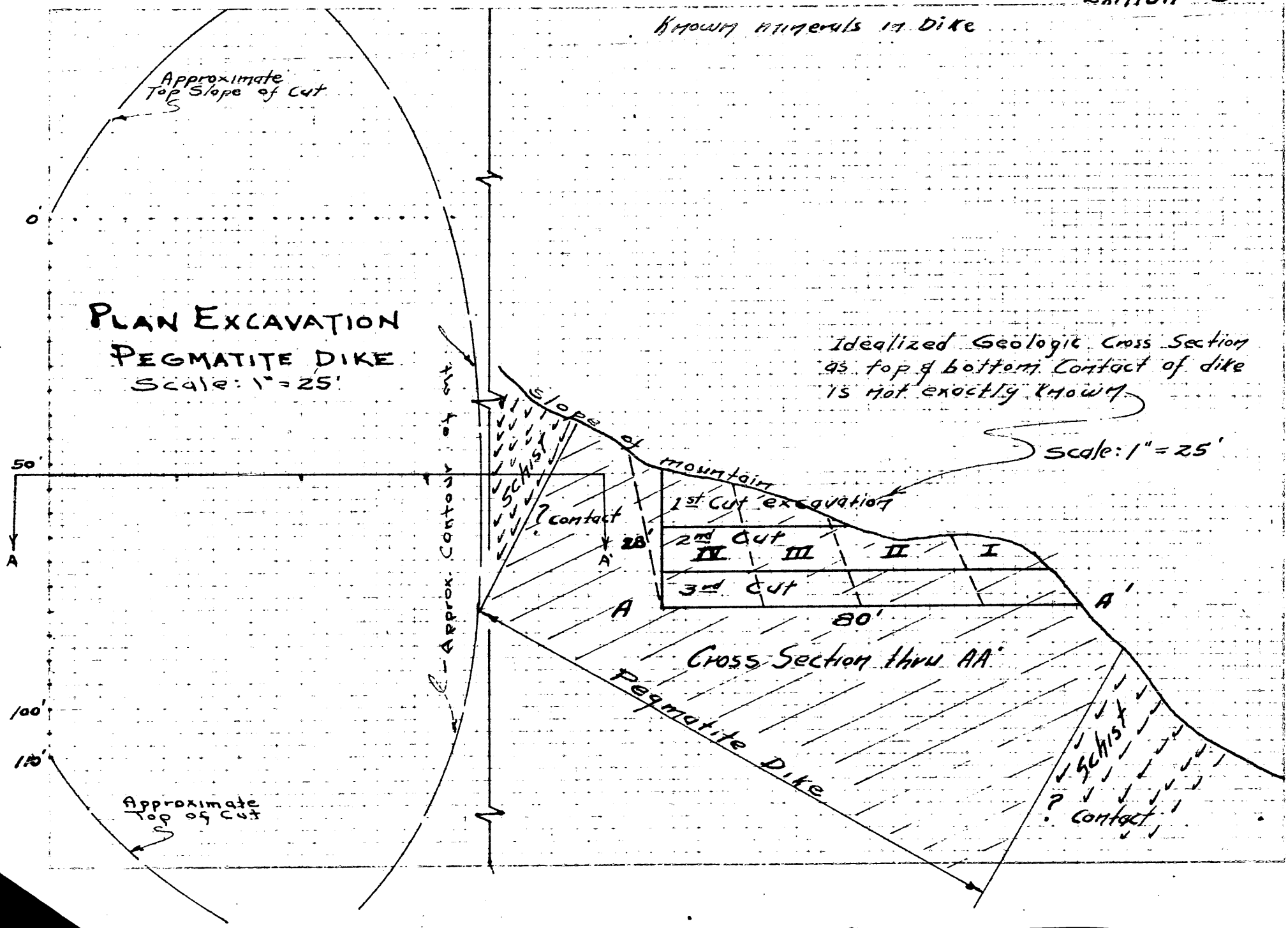
Our list of equipment we will use on the project.

2 - 200 Compressors complete with hose, jackhammers & steel .
3 - 6 inch pumps.
1 - Chain saw.
1 - 3/8 yd. shovel.
1 - ½ yd. shovel.
2 - Bulldozers.
7 - Dump trucks, from 6yd. to 10 yd. capacity.

Any or all of the above machines are available for the project. All are owned by Mayer Carpenter.

We would prefer to have a fixed cost contract similar to the one enclosed above.

Exhibit "B"


Known minerals in Dike
Approximate Top Slope of Cut
0'
PLAN EXCAVATION
PEGMATITE DIKE
Scale: 1" = 25'
50'
A
100'
110'
Approximate Top of Cut
Approx. Contour of the top
Idealized Geologic Cross Section as top & bottom Contact of dike is not exactly known
Scale: 1" = 25'
Slope of mountain
Schist
? contact
1st Cut excavation
2nd Cut
3rd Cut
IV
III
II
I
B
A'
A
80'
Cross Section thru AA'
Pegmatite Dike
Schist
? Contact

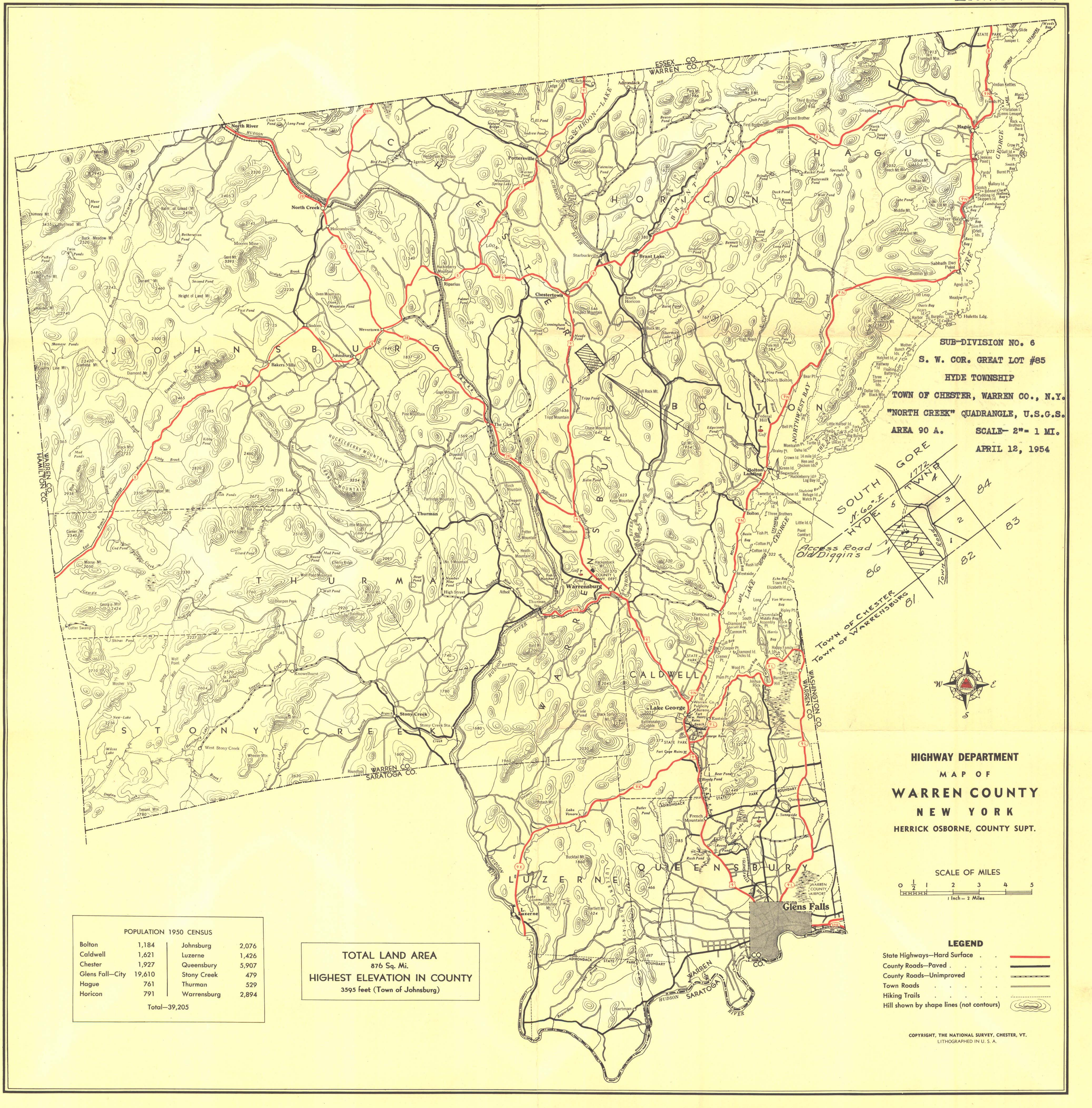
870 Market Street
San Francisco 2, Calif.

FIRST CLASS

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

EXHIBIT-"A"



POPULATION 1950 CENSUS

Bolton	1,184	Johnsburg	2,076
Caldwell	1,621	Luzerne	1,426
Chester	1,927	Queensbury	5,907
Glens Fall—City	19,610	Stony Creek	479
Hague	761	Thurman	529
Horicon	791	Warrensburg	2,894

Total—39,205

TOTAL LAND AREA
876 Sq. Mi.
HIGHEST ELEVATION IN COUNTY
3595 feet (Town of Johnsburg)