600 JAN 5 1953

Mr. Jacob J. Miller
16 Boswell Road
Hartford, Connecticut

Subject: Docket No. [illegible]-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Miller:

Your application for exploration assistance at the Rocklein Quarry in Fairfield County, Connecticut, has been reviewed by the Defense Minerals Exploration Administration.

The use of Government funds in an exploration project is considered justified only if evidence is available to show that the project has a reasonably good chance of resulting in the discovery or development of strategic minerals in sufficient quantity to significantly improve the mineral supply for National Defense.

The evidence that you have submitted, and other available information, does not show that the probability of making a significant discovery of beryl or mica is sufficiently encouraging to justify Government participation in the proposed work; therefore, your application for assistance is denied.

Your interest in the Defense Minerals Exploration Administration's program to aid the mineral supply for National Defense is appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

:Feitler:gad 12/31/52
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region VIII
Mr. Dietrich, 3526
Mr. Horton, G-232 GSA Bldg.
Mr. Houk

600 JAN 5 1954

December 31, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Resume - Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Fairfield County, Connecticut

Recommendation: Denial

Conclusion: The small amount and poor quality of the mica, and the apparent lack of beryl make this quarry a poor risk for exploration.

Chronology:

10/30/52 Application received - Program and cost estimate to be prepared with Field Team.. Letter from Edward L. Troxell, Director, Connecticut Geological and National History Museum, recommending this Quarry.
11/3/52 USBM memo - recommends field referral.
11/4/52 Division memo recommending expedited field referral.
11/5/52 USGS memo recommending field referral.
11/6/52 Referred to Region VIII for report.
11/6/52 Letter to applicant re field referral.
11/29/52 Sent copies of memoranda from USGS and USBM to Region VIII.
12/2/52 Field report received - recommends denial. Only small amounts of poor quality mica visible. No beryl observed.
12/9/52 USGS memo - Follow Field Team's recommendation.
12/30/52 Denial letter written.
12/31/52 USBM memo received - concurs with Field Team's recommendation for denial.

SAF

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:gad
Copy to: Admr. R. File
Docket File
Mr. Houk

600

November 21, 1952

Memorandum

To: Chairman, Operating Committee

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

The request for a field examination of this property is being expedited at the request of the Acting Executive Officer of Region VIII to effect economy of travel and to avoid possible delay on account of winter conditions.

This pegmatite is about eight miles east by north of the Bedford pegmatites in Westchester County, New York. According to Edward L. Troxell, Director of the Connecticut Geological and National History Survey, beryl is known to occur at this locality.

Inasmuch as a field examination of the Rocklein Quarry will be necessary to complete the processing of this application, expedition of this field referral may save several months and allow work to start early in the Spring of 1953 if a contract is granted.

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:gad

Copy to: Docket File
Adm. R. File
Mr. Houk

600

NOV 6 1952

Mr. Jacob J. Miller
16 Boswell Road
Hartford, Connecticut

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Miller:

Your application is being referred to Mr. A. T. Miller, Acting Executive Officer, DMEA Field Team, Region VIII, Bureau of Mines, Eastern Experiment Station, College Park, Maryland, for further information.

Your interest in the exploration program is appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

SAFeitler:gad 11/4/52

Copy to: Adm. R. File
Docket File
Operating Committee (2)
Field Team, Region VIII (2)
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

600

NOV 6 1952

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

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Millar:

Reference is made to the subject application for exploration assistance at the Rocklein Quarry in Ridgefield, Fairfield County, Connecticut.

The application contains little information about the pegmatite except that it contains beryl. Mr. Edward J. Troxell, Director of the Connecticut Geological and Natural History Survey, is familiar with the locality and believes that it might be a source of beryl. It is apparent that the applicant does not feel qualified to suggest a definite program, although he is probably experienced in quarry work.

Please arrange for a field examination of the Rocklein Quarry to determine whether Government participation in a program of exploration for beryl or mica is justified. If exploration is recommended, the report should include a suitable program, estimate of costs, and a sketch map as well as pertinent information omitted from the application.

The Bureau of Mines and Geological Survey memoranda will be forwarded to the field upon their receipt in this office.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

SAFeitler:gad 11/4/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Mr. Kauffman, 1347
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

630

NOV 24 1952

Mr. [illegible] Miller
Acting Executive Officer, DMA
[illegible], Region III
Bureau of Mines
Eastern Experiment Station
College Park, Maryland

Subject: Docket No. [illegible]-4756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Miller:

Reference is made to the subject application for exploration assistance at the Rocklein Quarry in Ridgefield, Fairfield County, Connecticut.

The memoranda from the Geological Survey and the Bureau of Mines on the subject application are enclosed for your information in accordance with the last paragraph of our letter dated November 6, 1952.

Sincerely yours,

Signed

Lawrence J. Houk, Chief
Nonmetallic Minerals Division

Enclosures 2

SAFeitler:gad 11/24/52

Copy to: Admr. R. File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2755

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
COHES TO USGS & USBM

To:	CODE 600, Rm. 4637	Date	10-31-52
To:	Fertler	Date	10/31/52
To:	Op Comm	Date	11/5/52
To:	Open Comm.	Date	1-2-53
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DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME:

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

JAN 5 1953

Feitler
Houk
Hedges
Kuhnel
Hightman

Mr. Jacob J. Miller
16 Boswell Road
Hartford, Connecticut

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Miller:

Your application for exploration assistance at the Rocklein Quarry in Fairfield County, Connecticut, has been reviewed by the Defense Minerals Exploration Administration.

The use of Government funds in an exploration project is considered justified only if evidence is available to show that the project has a reasonably good chance of resulting in the discovery or development of strategic minerals in sufficient quantity to significantly improve the mineral supply for National Defense.

The evidence that you have submitted, and other available information, does not show that the probability of making a significant discovery of beryl or mica is sufficiently encouraging to justify Government participation in the proposed work; therefore, your application for assistance is denied.

Your interest in the Defense Minerals Exploration Administration's program to aid the mineral supply for National Defense is appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

1/5/53
J. C.

SAFeitler:gad 12/31/52
Copy to: Admr. A. File
Docket File
Operating Committee
Field Team, Region VIII
Mr. Dietrich, 3526
Mr. Horton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

Feitler
Houk

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

December 31, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Resume - Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Fairfield County, Connecticut

Recommendation: Denial

Conclusion: The small amount and poor quality of the mica, and the apparent lack of beryl make this quarry a poor risk for exploration.

Chronology:

10/30/52 Application received - Program and cost estimate to be prepared with Field Team. Letter from Edward L. Troxell, Director, Connecticut Geological and National History Museum, recommending this Quarry.
11/3/52 USBM memo - recommends field referral.
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12/9/52 USGS memo - Follow Field Team's recommendation.
12/30/52 Denial letter written.
12/31/52 USBM memo received - concurs with Field Team's recommendation for denial.

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:gad
Copy to: Admr. R. File
Docket File
Mr. Houk

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

JAN 5 1953

December 31, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Resume - Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Fairfield County, Connecticut

Recommendation: Denial

Conclusion: The small amount and poor quality of the mica, and the apparent lack of beryl make this quarry a poor risk for exploration.

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12/9/52	USGS memo - Follow Field Team's recommendation.
12/30/52	Denial letter written.
12/31/52	USBM memo received - concurs with Field Team's recommendation for denial.

Stanley A. Feitler

Stanley A. Feitler
Nonmetallic Minerals Division

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

mr Farthe

December 30, 1952

Memorandum

To: L. G. Houk, Chief
Nonmetallics Division, DMEA

From: Robert F. Griffith
Rare and Precious Metals Branch

Re: Beryl-Mica

Subject: DMEA Docket 2756, Jacob J. Miller,
Rocklein Quarry, Fairfield County, Conn.

On the basis of the Field Team report, it is recommended that this application be denied.

Robert F. Griffith

Robert F. Griffith

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

December 30, 1952

Memorandum

To: L. G. Houk, Chief
Nonmetallics Division, DMEA

From: Robert F. Griffith
Rare and Precious Metals Branch

Re: Beryl-Mica

Subject: DMEA Docket 2756, Jacob J. Miller,
Rocklein Quarry, Fairfield County, Conn.

On the basis of the Field Team report, it is recommended that this application be denied.

Robert F. Griffith

ROBERT F GRIFFITH:kg

Copy to: Rare and Precious Metals
Minerals Division
R. F. Griffith
F I L E S

IN REPLY REFER TO:

G-MD-CNM

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

December 9, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 10 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2756 (Beryl-mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: J. J. Miller, 16 Boswell Road, W. Hartford, Connecticut.
Name of property: Rocklein.
Location of property: Ridgefield, Fairfield County, Connecticut.
Date of field team report: November 22, 1952.
Authorship of field team report: G. W. Stewart and H. L. Burmeister.
Field team's recommendation: Denial.
ACTION SUGGESTED: Follow field team's recommendation.

J. J. Norton

J. J. Norton

IN REPLY REFER TO:

G-MD-CNX

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

December 9, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 10 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2756 (Beryl-mica)

To: L. G. Houck, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: J. J. Miller, 16 Boswell Road, W. Hartford, Connecticut.
Name of property: Rocklein.
Location of property: Ridgefield, Fairfield County, Connecticut.
Date of field team report: November 22, 1952.
Authorship of field team report: G. A. Stewart and H. L. Burmeister.
Field team's recommendation: Denial.
ACTION SUGGESTED: Follow field team's recommendation.

J. J. Norton

Norton:jeh
G-12/9/52
cc: Director's reading file 4212
Branch reading 4212
DMEA
Norton G-230

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 1952

Mr. Fisher

December 2, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region VIII

Subject: Docket DMEA-2756 - (Beryl-Mica)
Rocklein Quarry, Ridgefield,
Fairfield County, Connecticut

In reference to your letter of November 6, attached in quadruplicate is a Field Team Report on examination of subject property.

W. T. Millar

W. T. Millar

Attachments - 4

Orig. only rec'd.
in Nonmetallic Minerals

Reviewed by
DMEA OPERATING COMMITTEE

12-8-52
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 1952

Field Team Report on Examination of Property

November 22, 1952
Docket No. DMEA-2756 - (Beryl-Mica)
Rocklein Quarry, Ridgefield, Fairfield County, Connecticut
(Applicant: J. J. Miller, 16 Boswell Rd., W. Hartford, Conn.)

Conclusions and Recommendations

Only small amounts of poor quality muscovite were visible in the exposed parts of the pegmatites in the two quarries. In the No. 1 Quarry muscovite is present in places in the hanging wall part of the wall zone, but it is too small and too low grade for commercial use. Muscovite books appear to be disseminated in the core of both pegmatites rather than confined to any particular part, or parts, of the cores. Beryl may be present in the pegmatites but no crystals were observed.

Some feldspar could be recovered as a byproduct if these quarries were explored for mica or beryl, however, the small amounts and poor quality of the muscovite, and the apparent lack of beryl, make these deposits unfavorable to exploration. It is recommended that the DMEA application for financial assistance be denied.

Reviewed by
DMEA OPERATING COMMITTEE
12-8-52
(date)

Location

The Rocklein quarries, northwest of the village of Ridgefield and approximately 1.6 miles by road, may be reached by turning westward at the traffic light opposite the Ridgefield Town Hall and travelling 0.25 mile to an intersection. Turn right and travel 0.25 mile to the second intersection, passing State Route 102 on left. At the second intersection turn sharp left and continue on macadam road for about 1.0 mile to gravel road on right. Turn right and travel 0.1 mile to end of gravel road. Follow woods road on foot for approximately 0.1 mile to abandoned road on left which leads to Quarry No. 1. Quarry No. 2 is approximately 300 feet northward.

General Geology

Quarry No. 1. The No. 1 Quarry, probably the most productive of the two abandoned feldspar quarries, is cut into the hillside along the strike of the pegmatite. It is about 75 feet long and 10 to 30 feet wide. At its northeast end the face is about 30 feet high. An estimated 10 to 15 feet of broken pegmatite covers the floor of the quarry.

The hanging wall contact of the pegmatite is exposed in several places along the eastern edge of the cut, and has an average dip of 50° SE. The pegmatite strikes approximately N. 15° E. In the quarry the thickness of the pegmatite is estimated to range from 20 to 35 feet.

Most of the pegmatite consists of a very coarse-grained core of perthite and quartz. The wall zone is much finer grained and is composed of perthite, quartz, plagioclase, and accessory muscovite which is too small and too low

grade for strategic use. One anhedral crystal of perthite is more than 6 feet long and as much as 3 feet wide. Many perthite crystals are 3 by 4 feet. Quartz segments are comparable in size to the perthite. One of the larger patches of "bull" mica on the footwall side of the core is 2 by 3 feet.

Books of muscovite, averaging 3 by 4 inches, are disseminated in the core. Some of these books are wedge-shaped and all are badly ruled and reeved. Poor quality muscovite is more abundant in the hanging wall part of the wall zone, but it occurs in small books which appear to be unevenly distributed in this zone.

The footwall part of the wall zone outcrops discontinuously along the hillside for about 150 feet southwestward beyond the limits of the quarry. In a few places thin remnants of the coarse-grained core are exposed. The footwall contact, exposed in the southernmost outcrop, dips 55° SE.

The wall rock is composed of a fine-to coarse-grained gneiss which has an average strike of N. 20° E and dips 40° SE.

Quarry No. 2. The quarry, about 300 feet northward from the No. 1 Quarry, is about 100 feet long and ranges from 10 feet in width near the floor to about 35 feet in width at the top. It has a maximum depth of about 25 feet near the center. The floor is covered by blocks of broken pegmatite.

The pegmatite strikes N. 10-20° E. and dips 50°-60° SE. It consists of a coarse-grained core of perthite and quartz and a medium-to fine-grained wall zone. The feldspar and quartz are very similar to those crystals in the No. 1 Quarry, but the average size is smaller. A few very poor quality muscovite books are visible in the core, but they do not appear to have any recognizable association to the quartz or feldspar. Neither do they occupy any definite position within the core.

Rosettes of cleavelandite (albite) appear to have replaced both the perthite and the quartz. The diameter of these rosettes ranges from 3 to 12 inches.

The wall rock is a gneiss and appears to have an average strike of N. 50°W. and dips 70°SW.

/s/ Glenn W. Stewart
Glenn W. Stewart
U. S. Geological Survey

/s/ H. L. Burmeister
H. L. Burmeister
U. S. Bureau of Mines

College Park, Md.
December 1, 1952

COPY

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region VIII

Subject: Docket DMEA-2756 - (Beryl-Mica)
Rocklein Quarry, Ridgefield,
Fairfield County, Connecticut

In reference to your letter of November 6, attached in quadruplicate is a Field Team Report on examination of subject property.

/s/ W. T. Millar

Attachments - 4

One copy only
rec'd in
Nonmetallic Min.
12-9-52

Reviewed by
DMEA OPERATING COMMITTEE
12-8-52
(date)

Reviewed by
DMEA OPERATING COMMITTEE
12-8-52
(Date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DEC 2 1952

Field Team Report on Examination of Property

November 22, 1952
Docket No. DMEA-2756 - (Beryl-Mica)
Rocklein Quarry, Ridgefield, Fairfield County, Connecticut
(Applicant: J. J. Miller, 16 Boswell Rd., W. Hartford, Conn.)

Conclusions and Recommendations

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Some feldspar could be recovered as a byproduct if these quarries were explored for mica or beryl, however, the small amounts and poor quality of the muscovite, and the apparent lack of beryl, make these deposits unfavorable to exploration. It is recommended that the DMEA application for financial assistance be denied.

Location

The Rocklein quarries, northwest of the village of Ridgefield and approximately 1.6 miles by road, may be reached by turning westward at the traffic light opposite the Ridgefield Town Hall and travelling 0.25 mile to an intersection. Turn right and travel 0.25 mile to the second intersection, passing State Route 102 on left. At the second intersection turn sharp left and continue on macadem road for about 1.0 mile to gravel road on right. Turn right and travel 0.1 mile to end of gravel road. Follow woods road on foot for approximately 0.1 mile to abandoned road on left which leads to Quarry No. 1. Quarry No. 2 is approximately 300 feet northward.

General Geology

Quarry No. 1. The No. 1 Quarry, probably the most productive of the two abandoned feldspar quarries, is cut into the hillside along the strike of the pegmatite. It is about 75 feet long and 10 to 30 feet wide. At its northeast end the face is about 30 feet high. An estimated 10 to 15 feet of broken pegmatite covers the floor of the quarry.

The hanging wall contact of the pegmatite is exposed in several places along the eastern edge of the cut, and has an average dip of 50° SE. The pegmatite strikes approximately N. 15° E. In the quarry the thickness of the pegmatite is estimated to range from 20 to 35 feet.

Most of the pegmatite consists of a very coarse-grained core of perthite and quartz. The wall zone is much finer grained and is composed of perthite, quartz, plagioclase, and accessory muscovite which is too small and too low

grade for strategic use. One anhedral crystal of perthite is more than 6 feet long and as much as 3 feet wide. Many perthite crystals are 3 by 4 feet. Quartz segments are comparable in size to the perthite. One of the larger patches of "bull" mica on the footwall side of the core is 2 by 3 feet.

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The wall rock is composed of a fine-to coarse-grained gneiss which has an average strike of N. 20° E and dips 40° SE.

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The wall rock is a gneiss and appears to have an average strike of N. 50° W. and dips 70° SW.

/s/ Glenn W. Stewart
Glenn W. Stewart
U. S. Geological Survey

/s/ H. L. Burmeister
H. L. Burmeister
U. S. Bureau of Mines

College Park, Md.
December 1, 1952

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

600

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

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Millar:

Reference is made to the subject application for exploration assistance at the Rocklein Quarry in Ridgefield, Fairfield County, Connecticut.

The memoranda from the Geological Survey and the Bureau of Mines on the subject application are enclosed for your information in accordance with the last paragraph of our letter dated November 6, 1952.

Sincerely yours,

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosures 2

SAFeitler:gad 11/24/52

Copy to: Admr. R. File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

600

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

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Millar:

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Sincerely yours,

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosures 2

SAFeitler:gad 11/24/52

Copy to: Admr. R. File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

Feitler
Houk
Attendorf

NOV 24 1952

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

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Millar:

Reference is made to the subject application for exploration assistance at the Rocklein Quarry in Ridgefield, Fairfield County, Connecticut.

The memoranda from the Geological Survey and the Bureau of Mines on the subject application are enclosed for your information in accordance with the last paragraph of our letter dated November 6, 1952.

Sincerely yours,

Signed

S.N.
11-24-52

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosures 2

SAFeitler:gad 11/24/52

Copy to: Admr. R. File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

SAFeitler
Houk
Van Dettine
Embree

NOV 6 1952

Mr. Jacob J. Miller
16 Boswell Road
Hartford, Connecticut

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Miller:

Your application is being referred to Mr. W. I. Millar, Acting Executive Officer, DMEA Field Team, Region VIII, Bureau of Mines, Eastern Experiment Station, College Park, Maryland, for further information.

Your interest in the exploration program is appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

S.H.
11-6-52

SAFeitler:gad 11/4/52

Copy to: Adm. A. File
Docket File
Operating Committee (2)
Field Team, Region VIII (2)
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

NOV 6 1952

SAFeitler
Houk
Kauffman
Paul Aldine

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

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

Dear Mr. Millar:

Reference is made to the subject application for exploration assistance at the Rocklein Quarry in Ridgefield, Fairfield County, Connecticut.

The application contains little information about the pegmatite except that it contains beryl. Mr. Edward L. Troxell, Director of the Connecticut Geological and National History Survey, is familiar with the locality and believes that it might be a source of beryl. It is apparent that the applicant does not feel qualified to suggest a definite program, although he is probably experienced in quarry work.

Please arrange for a field examination of the Rocklein Quarry to determine whether Government participation in a program of exploration for beryl or mica is justified. If exploration is recommended, the report should include a suitable program, estimate of costs, and a sketch map as well as pertinent information omitted from the application.

The Bureau of Mines and Geological Survey memoranda will be forwarded to the field upon their receipt in this office.

Sincerely yours,

(signed) FRANK E. JOHNSON (JB)
Chairman, Operating Committee

F.H. 11-6-52

Approved:

Wm. H. Hedges (JB)
Member, Bureau of Mines

A.R. Tinkel Jr. (JB)
Member, Geological Survey

SAFeitler:gad 11/4/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Mr. Kauffman, 1347
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

IN REPLY REFER TO:
G-MD-CNM

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

November 5, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 5 1952

Memorandum

REVIEW OF APPLICATION DMEA-2756 (Beryl, mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: Jacob J. Miller, 16 Boswell Rd., West Hartford, Conn.
Name of property: Rocklein Quarry.
Location of property:
One mile NW. of the Ridgefield Post Office.
Estimated cost of project: None given.
Summary of applicant's proposal:
None made, other than to explore pegmatite in this quarry.
Sources of information on applicant's property:
None, other than letter (Oct. 28, 1952) from E. L. Troxell, Director, Connecticut Geological and Natural History Survey, to Mr. Millar, Bureau of Mines, College Park office.
Comments:
Applicant provides very meager data. Information in Troxell's letter, referred to above, justifies recommending field team referral.
RECOMMENDATION:
Refer to field team.

R. E. Van Alstine
R. E. Van Alstine

MF-103
(Revised April 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 30 1952

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget 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. Dmea - 2756
Metal or Mineral
Date Received 10-30-52
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: Jacob J. Miller
16 Boswell Rd.
West Hartford, Conn.

(*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 Rocklein Quarry 13.3 acres own by purchase

(*b*) State any mine name by which the property is known. Rocklein Quarry

(*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 $1500.00 payable $500.00per year for three years

(*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 wish to explore BERYL 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 immediately 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 [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 28 October, 1952

James J. Miller (Applicant)

By Owner

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

J. J. MILLER, PRES.

P. T. MILLER, SECY.-TREAS.

BULLDOZERS
DRAGLINES
SHOVELS
TRUCK CRANES

THE J. J. MILLER CONSTRUCTION CO.
GENERAL CONTRACTORS
60 WELLINGTON STREET HARTFORD 6, CONN.
TELEPHONE 6-3609

RUBBER TIRED
AND CRAWLER
TRACTORS
SCRAPERS

FORM MF103

4. (a) Date of Previous excavation unknown-nothing being done at present-frequently been explored by geologists of State Survey and educational institutions- Accessible by Jeep
(b) Unknown
(c) Pegmatite Dike - Iwish to explore for the strategica minerals beryl and mica for patriotic and commercial purposes- The Rocklein Quarry is located in Ridgefield,Conn. ~~in~~ marked on enclosed 7½ min. topographic map. Letter will follow from Prof. E.L.Troxell(Trinity College) Director State Geologic Survey expressing his opinions. ?
(d) Minerals can be trucked to Ridgefield 1 mile form quarry
(e) Manpower and necessary equipment available- brook on property
5. (b) Your field team can suggest to me upon inspection
~~(c)~~ (d) I have been in heavy excavation for years- anticipate employing a competent pegmatite mining engineer to supervise operations
6. (a) thru (g) At the present time we have not worked up an estimate as we have not determined the extent of this operation. In Mr.Mosier's letter, I was informed that I would be assisted by (quote) your enginners from College Park.

We are most anxious to have a field team arrange an inspection of this quarry. Please expedite this application.

J. J. Miller
owner

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

November 11, 1952

Memorandum

To: Chairman, Operating Committee

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

The request for a field examination of this property is being expedited at the request of the Acting Executive Officer of Region VIII to effect economy of travel and to avoid possible delay on account of winter conditions.

This pegmatite is about eight miles east by north of the Bedford pegmatites in Westchester County, New York. According to Edward L. Troxell, Director of the Connecticut Geological and National History Survey, beryl is known to occur at this locality.

Inasmuch as a field examination of the Rocklein Quarry will be necessary to complete the processing of this application, expedition of this field referral may save several months and allow work to start early in the Spring of 1953 if a contract is granted.

Stanley A. Feitler
Nonmetallic Minerals Division

FILE COPY
SURNAME:

SAFeitler
Hoch
Kauffman
Van Cleve

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

November 17, 1952

Memorandum

To: Chairman, Operating Committee

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2756 - Beryl-Mica
Rocklein Quarry
Ridgefield
Fairfield County, Connecticut

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Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:gad

Copy to: Docket File
Adm. R. File
Mr. Houk

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

November 3, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 4 1952

Memorandum

To: L. G. Houk, Chief
Nonmetallics Division, DMEA

From: A. J. Kauffman, Jr.
Rare and Precious Metals

Subject: DMEA 2756, Jacob J. Miller, West Hartford, Conn.

In spite of the lack of a work plan, this property is recommended for Field Team investigation because it is located in a beryl - producing area.

A. J. Kauffman, Jr.

Attachment

October 31, 1952

Mr. Jacob J. Miller
16 Bosewell Road
West Hartford, Connecticut

Subject: DMEA-2756
Re: Exploration Assistance
Rocklein Quarry

My dear Mr. Miller:

The receipt of your application dated October 28, 1952 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2756 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-2756 in any future correspondence relating to your application.

Sincerely yours,

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

25451

October 31, 1952

Memorandum

To: Executive Officer, DMEA Field Team, Region VIII

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There are listed below the assigned Docket Numbers to applications recently received from Region VIII.

~~DMEA-2755 - Bickford, Charles R.~~

DMEA-2756 - Miller, Jacob J.

R E ADAMS

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 30 1952

October 29, 1952

Memorandum

DMEA - 2756

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: W. T. Millar, Acting Executive Officer, DMEA Field Team, Region VIII

Subject: DMEA applications from Charles R. Bickford and J. J. Miller

Enclosed are three copies of each application from ~~Charles R. Bickford, Center Sandwich~~, New Hampshire and J. J. Miller of Hartford, Connecticut.

These applications are incomplete and it is apparent that the applicants need assistance. It is planned for an engineer to leave College Park on November 5 on a field inspection trip and while the engineer is in New England it seems advisable to examine these deposits. The Geological Survey has been contacted but a definite reply has not yet been received.

W. T. Millar

Enclosures

WTM:rwa

copies for FEJohnson
DMEA Files 2

CONNECTICUT
GEOLOGICAL AND NATIONAL HISTORY
SURVEY
Office of the Director

October 28, 1952

Bureau of Mines
Defense Minerals Exploration Administration
College Park, Maryland

Attention: Mr. Wilton T. Millar

Dear Mr. Millar:

We understand that you have been in communication with

Mr. J. J. Miller
60 Wellington Street
Hartford, Connecticut

who is planning to promote the development of mineral prospects in the western part of the state.

The land goes under the name of the Rocklein Quarry and lies one mile northwest of the Ridgefield Post Office.

For many years I have known of the existence of beryl in a very ancient quarry here. It has been examined by mineralogists at Yale and others and it gives every reason to believe that it will produce a good supply of beryl. The excavations have been made in one of our characteristic pegmatite dikes; it lies on high ground and is easily accessible, although the road will have to be improved for the transportation of the product.

Let me say again that it is my considered opinion that this deposit should be exploited. I have known Mr. J. J. Miller for some time and feel that he is qualified to take responsibility in the quarrying procedure. I hope your men can examine the formation on very promptly.

Yours sincerely,

/s/ Edward L. Troxell
Edward L. Troxell
Director

ELT:H

Copies made in Nonmetallic Minerals Divn.DMEA
11/3/52
Sent to: Mr.VanAlstine
Mr. Dietrich

CONNECTICUT
GEOLOGICAL AND NATIONAL HISTORY
SURVEY
Office of the Director

October 28, 1952

Bureau of Mines
Defense Minerals Exploration Administration
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/s/ Edward L. Troxell
Edward L. Troxell
Director

ELT:H

Copies made in Nonmetallic Minerals Divn.DMEA
11/3/52
Sent to: Mr.VanAlstine
Mr. Dietrich

CONNECTICUT
GEOLOGICAL AND NATIONAL HISTORY
SURVEY
Office of the Director

October 28, 1952

Bureau of Mines
Defense Minerals Exploration Administration
College Park, Maryland

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Yours sincerely,

/s/ Edward L. Troxell
Edward L. Troxell
Director

ELT:H

Copies made in Nonmetallic Minerals Divn.DMEA
11/3/52
Sent to: Mr.VanAlstine
Mr. Dietrich

C
O
P
Y

Ames - 2756

CONNECTICUT
GEOLOGICAL AND NATIONAL HISTORY
SURVEY
Office of the Director

October 28, 1952

Bureau of Mines
Defense Minerals Exploration Administration
College Park, Maryland

Attention: Mr. Wilton T. Millar

Dear Mr. Millar:

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60 Wellington Street
Hartford, Connecticut

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Yours sincerely,

/s/ Edward L. Troxell
Edward L. Troxell
Director

ELT:H

8 mi S of N from Bedford, Westch. Co., N.Y.

xxxxxxxxxxxxxxxxx

College Park, Maryland Dmea-2756

October 10, 1952

Mr. J. J. Miller, President
The J. J. Miller Construction Co.
60 Wellington Street
Hartford 6, Connecticut

Dear Mr. Miller:

In answer to your letter of inquiry, dated October 3rd, we are glad to hear that you have a good beryl prospect. Enclosed are one copy each of DMEA Order-1 and the pamphlet on the Defense Minerals Exploration program. Also enclosed are five copies of each of the forms MF-103, Application for Aid and MF-203, Owner's consent to Lien. Please fill out these forms as completely as possible according to instructions, giving all possible details including maps, any geological data available and other information. The Government's participation in beryl is 90 percent.

Should one of our engineers from College Park be in your locality in the near future he will call on you and assist you in making your application.

Very truly yours,

McHenry Mosier, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

Enclosures

McHM:GLNeumann:rwa

copy for DMEA Files 2
~~MENelson, USGS~~

MF-102
(Revised Aug. 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 30 1952

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget 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. Dmea-2756
Metal or Mineral
Date Received 10-30-52
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: Jacob J. Miller
16 Boswell rd.
Hartford, Conn.

(*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 Rocklein Quarry 13.3 Acres own by purchase

(*b*) State any mine name by which the property is known. Rocklein Quarry

(*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 $1500.00 payable $500.00 per year

(*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 will to explore

~~BERYL MICA~~ BERYL & 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 immediately 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 [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 28 October, 1952

Jack J. Miller
(Applicant)

By owner

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

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FORM MF103

4. (a) Date of Previous excavation unknown-nothing being done at present-frequently been explored by geologists of State Survey and educational institutions- Accessible by Jeep

(b) Unknown

(c) Pegmatite Dike - Iwish to explore for the strategica minerals beryl and mica for patriotic and commercial purposes- The Rocklein Quarry is located in Ridgefield,Conn. marked on enclosed 7½ min. topographic map. Letter will follow from Prof. E.L.Troxell(Trinity College) Director State Geologic Survey expressing his opinions.

(d) Minerals can be trucked to Ridgefield 1 mile form quarry

(e) Manpower and necessary equipment available- brook on property

5. (b) Your field team can suggest to me upon inspection

(d) I have been in heavy excavation for years- anticipate employing a competent pegmatite mining engineer to supervise operations

6. (a) thru (g) At the present time we have not worked up an estimate as we have not determined the extent of this operation. In Mr.Mosier's letter, I was informed that I would be assisted by (quote) your enginners from College Park.

We are most anxious to have a field team arrange an inspection of this quarry. Please expedite this application.

J. J. Miller
Owner

~~UNITED STATES~~
~~DEPARTMENT OF THE INTERIOR~~
~~BUREAU OF MINES~~
~~24 New Ch.~~
~~Denver 2, Colo.~~

~~OFFICIAL BUSINESS~~

PAYMENT OF POSTAGE $300
(PMGC)

~~Code 600 7676~~
~~D. E. MOULDS~~
~~DEFENSE MINERALS EXPLORATION ADMINISTRATION~~
~~INTERIOR BUILDING~~
~~WASHINGTON 25, D. C.~~

Enclosed by map
Area - 2756

Dnea-2756

Connecticut Geological Survey
TRINITY COLLEGE
HARTFORD 6 CONNECTICUT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WAR DEPARTMENT
CORPS OF ENGINEERS, U. S. ARMY

NEW YORK-CONNECTICUT
PEACH LAKE QUADRANGLE
7½-MINUTE SERIES

Ridgefield, Conn.

Mapped by the Geological Survey
1943

Scale $\frac{1}{31680}$

Contour interval 10 feet
Datum is mean sea level

APPROXIMATE MEAN DECLINATION, 1948

Polyconic projection. 1927 North American datum
5000 yard grid based on U. S. zone system, A
10000 foot grids based on Connecticut and New York (East) rectangular coordinate systems

ROAD CLASSIFICATION
1945

Dependable hard-surface
heavy-duty road
Secondary hard-surface
all weather road
Dry weather roads
Loose-surface graded
Unsurfaced, graded
Dirt road
More than two lanes indicated along road with tick at point of change 3 LANE 4 LANE

U. S. Route 15
State Route 26

PEACH LAKE, N. Y.-CONN.
Edition of 1946

N4115—W7330/7.5

THE TOPOGRAPHIC MAPS OF THE UNITED STATES

The United States Geological Survey is making a series of standard topographic maps to cover the United States. This work has been in progress since 1882, and the published maps cover more than 47 percent of the country, exclusive of outlying possessions.

The maps are published on sheets that measure about 16½ by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, the areas that they represent are of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, miles, and kilometers. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale $\frac{1}{62,500}$ means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 62,500 of the same units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys and the resulting maps have for many years been of three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{31,680}$ (1 inch = one-half mile) or $\frac{1}{24,000}$ (1 inch = 2,000 feet), with a contour interval of 1 to 100 feet, according to the relief of the particular area mapped.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile), with a contour interval of 10 to 100 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, and the high mountain area of the northwest, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{125,000}$ (1 inch = nearly 2 miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles), with a contour interval of 20 to 250 feet.

The aerial camera is now being used in mapping. From the information recorded on the photographs, planimetric maps, which show only drainage and culture, have been made for some areas in the United States. By the use of stereoscopic plotting apparatus, aerial photographs are utilized also in the making of the regular topographic maps, which show relief as well as drainage and culture.

A topographic survey of Alaska has been in progress since 1898, and nearly 44 percent of its area has now been mapped. About 15 percent of the Territory has been covered by maps on a scale of $\frac{1}{500,000}$ (1 inch = nearly 8 miles). For most of the remainder of the area surveyed the maps published are on a scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). For some areas of particular economic importance, covering about 4,300 square miles, the maps published are on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile) or larger. In addition to the area covered by topographic maps, about 11,300 square miles of southeastern Alaska has been covered by planimetric maps on scales of $\frac{1}{125,000}$ and $\frac{1}{250,000}$.

The Hawaiian Islands have been surveyed, and the resulting maps are published on a scale of $\frac{1}{62,500}$.

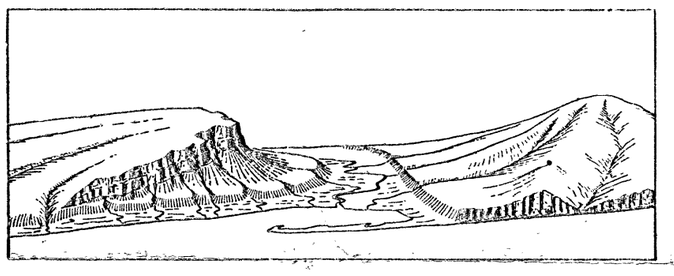
A survey of Puerto Rico is now in progress. The scale of the published maps is $\frac{1}{30,000}$.

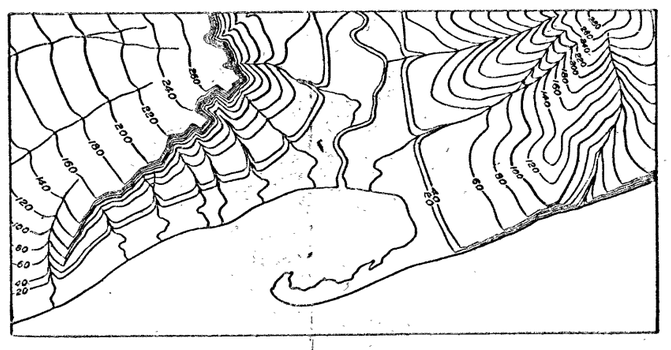
The features shown on topographic maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and boundaries. The symbols used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams by double lines. The larger streams, lakes, and the sea are accentuated by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on a few maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The datum or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet above mean sea level. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope, lines that are close together indicate a steep slope, and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.





The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined tableland that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. In order that the contours may be read more easily certain contour lines, every fourth or fifth, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road intersections, summits, surfaces of lakes, and benchmarks—are also given on the map in figures, which show altitudes to the nearest foot only. More precise figures for the altitudes of benchmarks are given in the Geological Survey's bulletins on spirit leveling. The geodetic coordinates of triangulation and transit-traverse stations are also published in bulletins.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Public roads suitable for motor travel the greater part of the year are shown by solid double lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

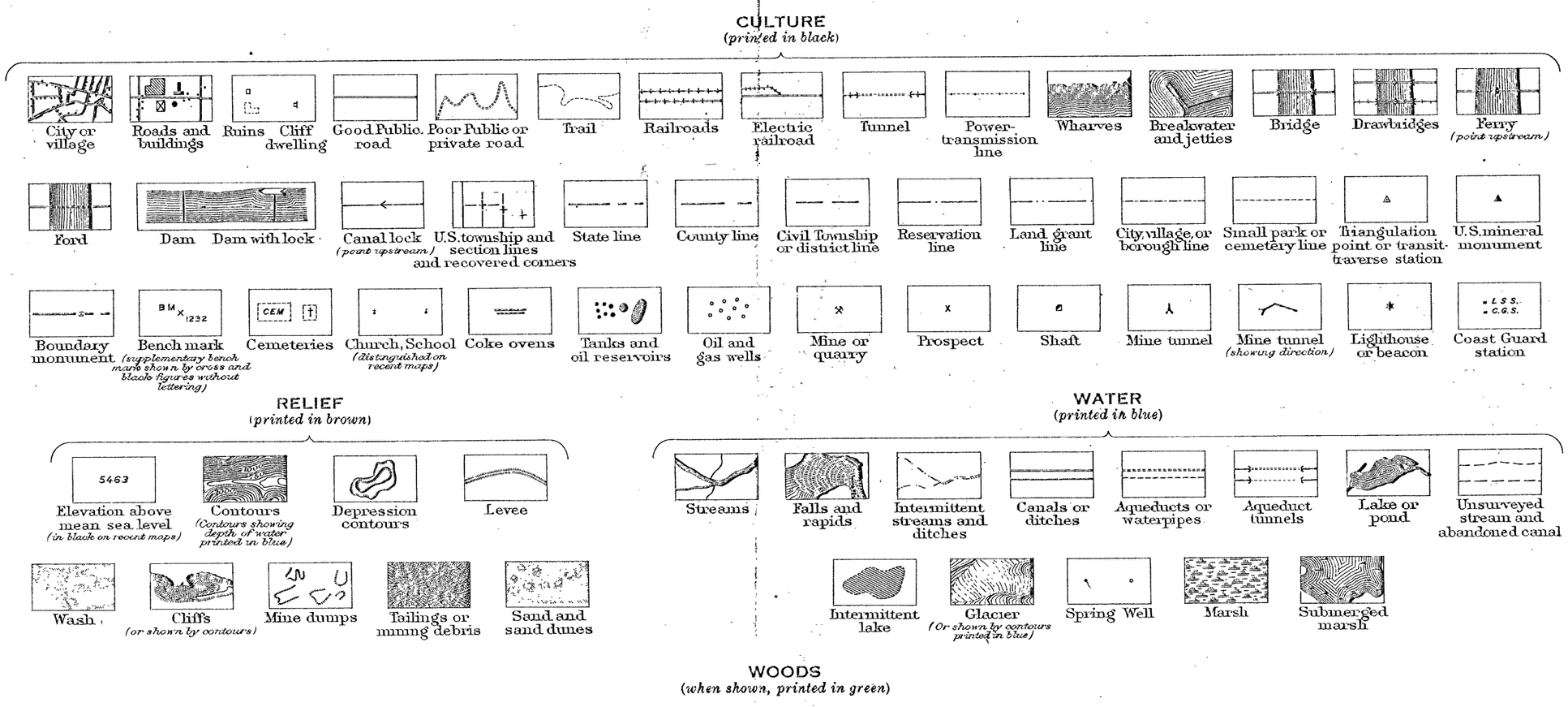
Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

STANDARD SYMBOLS