MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 6/8/54

REFERRED TO:

1. ~~Operating Committee~~
2. ~~Miss Curtin, Rm. 4539~~
3. 600
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record
..... Comment	of .....
..... Conference	..... Referring
..... Consideration	to .....
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Field Report and Denial
~~For Agenda 6/7/54~~

Check (X) before the items needing attention.

George C. Selfridge

Initials of sender.

GPO 16—63815-1

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

COPY

224 New Customhouse
Denver 2, Colorado

May 26, 1954.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: DMEA Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3336 (Beryl, Mica, Uranium), John B. Grosso, Jr., Jefferson County, Colorado.

Enclosed are four copies of the Geological Report of Examination on the subject property. The Bureau of Mines did not participate in the examination.

Also enclosed is a copy of the letter of denial to the applicant and two copies of Form 3b.

/s/ W. H. King

/s/ E. N. Harshman for
A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
6-7-54
(date)

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

COPY

224 New Customhouse
Denver 2, Colorado

May 27, 1954.

Mr. John B. Grosso, Jr.
982 Tennyson Street
Denver, Colorado

Re: DMEA Docket 3336 (Beryl, Mica, Uranium), John B.Grosso, Jr., Jefferson County, Colorado.

Dear Mr. Grosso:

Reference is made to your application for Government assistance in the exploration of Section 18, Township 3, Range 70 West, located in Jefferson County, Colorado for Beryl, Mica, and Uranium.

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

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves of Beryl, Mica, or Uranium is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

/s/ W. H. King
Field Team, Region IV

/s/ E. N. Harshmann for
A. H. Koschmann
Field Team, Region IV

RDB:cwm
cc: Docket
Administrator, DMEA
WMTraver
AHKoschmann
CETowle
Chron.

Reviewed by
DMEA OPERATING COMMITTEE
6-7-54
(date)

IN REPLY REFER TO
Defense Minerals Administration
RECEIVED
JUN 4 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

May 19, 1954

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3336, John B. Grosso, Jr., Jefferson County, Colorado

Enclosed are 11 copies of the geological report by E. N. Harshman covering the above docket.

The applicant proposes to explore for beryl, mica, and uranium in two pegmatite dikes by excavating open cuts at an estimated cost of $23,193.00.

Harshman, after a field examination, concludes that exploration of the pegmatite dikes would not lead to the discovery of significant amounts of beryl, uranium, and mica. He, therefore, recommends that the application for an exploration loan be denied.

I concur with his recommendation.

E. N. Harshman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
6-7-54
(date)

JOHN B. GROSSO, JR.

JEFFERSON COUNTY, COLORADO

DMEA DOCKET 3336

Geologic Report

By E. N. Harshman
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
6-7-54
(date)

JOHN B. GROSSO, JR.
JEFFERSON COUNTY, COLORADO

INTRODUCTION

John B. Grosso, Jr., 982 Tennyson Street, Denver, Colorado, has applied for DMEA assistance to explore for beryl, mica, and uranium in two pegmatite dikes located in section 18, T. 3 S., R. 70 W., 6th P.M., Jefferson County, Colorado. The property consists of all of section 18 except one recorded mining claim, and is leased by the applicant from Lyman C. and Audrey E. Ladwig of Arvada, Colorado. It is reached over a poor dirt road that connects with the Crawford Gulch road at a point one mile north of State Highway 58 in Golden Gate Canyon.

The applicant proposes to spend $23,193 on two exploration projects as follows:

Project I ($8,348.00): excavate an open cut approximately 100 feet long, 20 feet wide, and a maximum of 75 feet deep to expose a pegmatite dike located on the first ridge south of Van Bibber Creek in the NE 1/4 of section 18 (figure 1);

Project II($14,845.00): excavate an open cut 200 feet long, 75 feet wide and 30 feet deep to expose a pegmatite dike located on a ridge between Halfmile and Crossman Gulches in the SE 1/4 of section 18 (figure 1).

The property was examined on May 13, 1954, in company with the applicant and John Adams of the U. S. Geological Survey.

It is concluded that the exploration requested by the applicant is actually a subsidy for mining, and secondly, that any program of exploration pursued in the area would not lead to the discovery of significant amounts of beryl, uranium, or strategic mica.

It is therefore recommended that the application for exploration assistance, DMEA Docket 3336, be denied.

GEOLOGY

The pegmatite dikes proposed for exploration are in an area underlain by metamorphic rocks of the pre-Cambrian Idaho Springs formation. In the vicinity of Project No. 1 (mouth of Van Bibber Creek), a sill-like pegmatite dike has been emplaced in schists, gneisses, and phyllites. The lineation of the wall rocks and the pegmatite dike strike N. 68° E. and dip 50 to 55° S. The contacts of the dike and the wall rocks are sharply defined.

The pegmatite is exposed for a strike length of about 100 feet. It is unzoned, 20 to 30 inches wide, and composed of quartz, perthite, and muscovite in crystals 1 to 4 inches in diameter.

The outcrop has been mined, to a limited extent, for scrap mica and books up to 6 inches in diameter have been produced. Beryl, in crystals 1/2 to 2 inches in diameter, is present in the deposit in amounts estimated at not more than 10 pounds per ton (1/2%). A few hundred pounds of beryl crystals from this deposit have been sold at 20 cents per pound delivered in Denver.

Project No. 2 (between Cressman and Halfmile Gulches) in in an area of gneisses and schists striking N. 75° W. and dipping 70° to 80o S. The metamorphic wall rocks have been cut by a series of pegmatite dikes striking about N. 40° W. and apparently dipping steeply northeast.

The dikes are poorly exposed but judging from quartz float in the over burden they appear to be 10 to 30 feet wide and 100 to 200 feet long. At least 2 zones are present in the larger bodies, a core of coarse grained

quartz, and an outer zone of perthite, quartz, and muscovite.

Exploration in this area consists of several very shallow (1 to 2 feet deep) bulldozer cuts. This work has not been systematically planned and has added little or nothing to the knowledge of the deposit.

The presence of beryl in the pegmatite dikes of the area was not confirmed by this examination although the applicant states that a few small beryl crystals were recovered from one of the shallow cuts.

No radioactivity was detected during a scintillator survey of the dikes proposed for exploration in Projects I and II.

CONCLUSIONS AND RECOMMENDATIONS

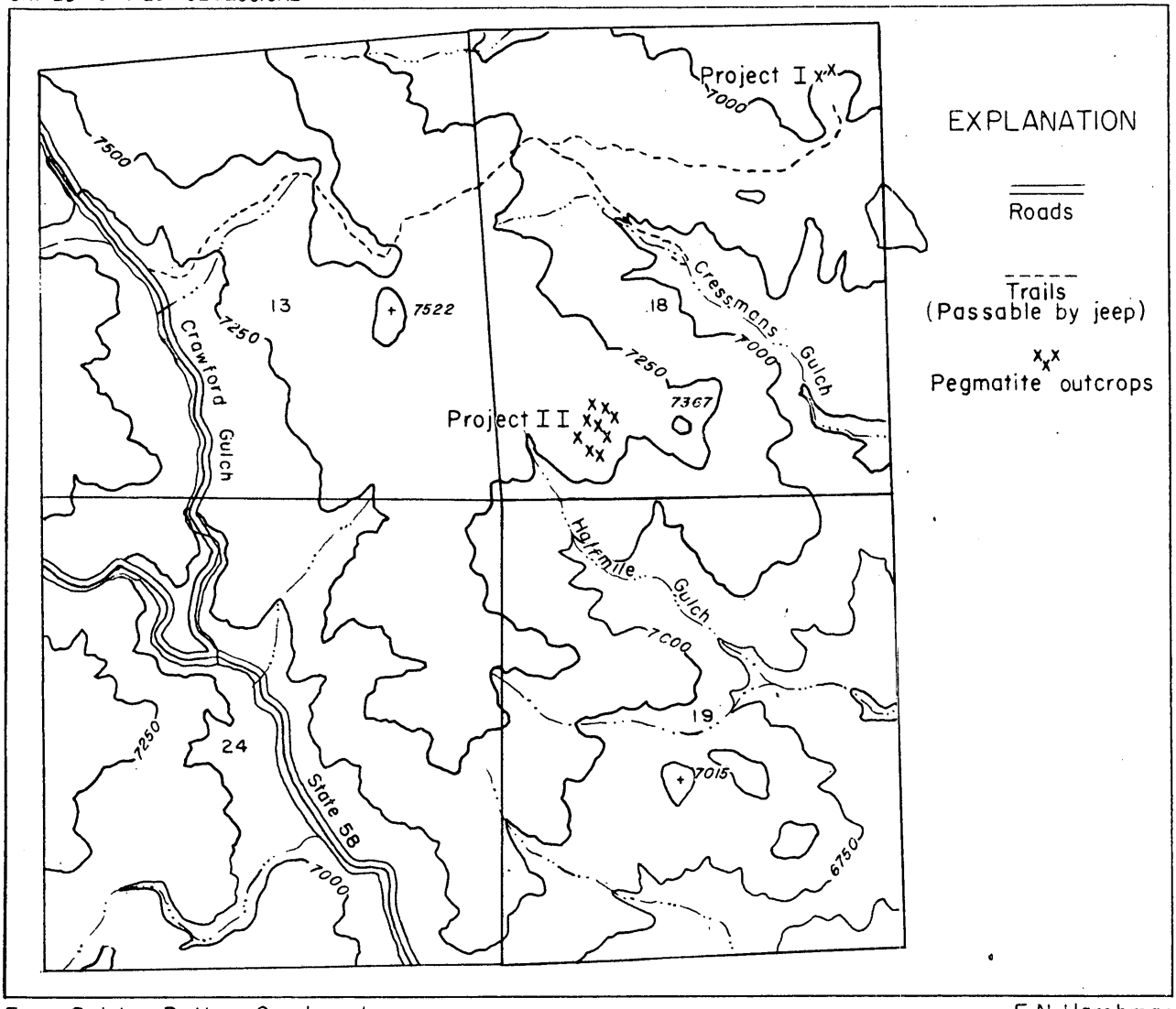
Project No. 1. An uneconomical operation with an insignificant beryl production is indicated by 1) a narrow pegmatite body requiring underground mining methods, 2) a very low grade ore, probably less than 10 pounds of beryl per ton of pegmatite, and 3) difficult hand sorting of 1 to 2-inch (average diameter) beryl crystals. There is no geologic data to indicate that the width of the pegmatite body, the size of the beryl crystals, or the beryl content of the pegmatite dike will increase along the strike of the deposit or at greater depths. Uranium minerals and strategic mica are not present in this pegmatite body.

Project No. 2. The presence of beryl, uranium minerals or strategic mica in the dikes proposed for exploration under this project was not confirmed by this examination and it is improbable that significant amounts of these minerals would be found by additional work in this area.

For the reasons outlined above, it is recommended that the application for exploration assistance, DMEA Docket 3336, be denied.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

DMEA
DOCKET 3336



From Ralston Buttes Quadrangle,
Colorado. Edition of 1948

E.N. Harshman
May 1954

FIGURE I-LOCATION MAP

Scale 1:24000

1000 0 2000 4000 6000 FEET

Contour interval 250 feet

Datum is mean sea level

June 14, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Denial - Docket No. DMEA-3336 - Beryl, Mica, Uranium, John B. Grosso, Jr., Jefferson County, Colorado

The Nonmetallic Minerals Division concurs with the recommendation of the Field Team in that geologic probability of making a significant discovery is remote.

LGHouk:gad 6/14/54
Copy to: Admr. R. File
Mr. Houk

IN REPLY REFER TO:

G-MD-CMM

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

Defense Minerals Adm.
RECEIVED
JUN 8 1954

June 7, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3336 (beryl, uranium, mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: John B. Grosso, Jr., Jefferson County, Colo.
Name of property: None
Location of property: S. 18, T. 3 S., R. 70 W., 6th P.M., Jefferson Co., Colo.
Date of Field Team Report: May 19, 1954.
Authorship of Field Team Report: E. N. Harshmann
Field Team's recommendation: Denial
Comments: 1 - More mining than exploration.
2 - Very slight chance of significant discovery.

ACTION RECOMMENDED:

Follow Field Team's recommendation.

D. M. Larrabee

Copy to: DMEA (3)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 10 1954

June 9, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination - DMEA Docket 3336, John B. Grosso, Jr., Jefferson County, Colorado.

I have reviewed the subject report and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the recommendation of the Field Team that the application involved under the subject docket be denied.

The report has been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

H. D. Keiser

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

Defense Minerals Administration
RECEIVED
JUN 10 1954

June 9, 1954

Memorandum

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Uranium Commodity Committee, Room 4640

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Uranium Commodity Committee

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H. D. Keiser