DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1869 X

DO NOT DETACH THIS SLIP

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This document has been recorded as

EXPLORATION LOAN

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

To:	Ind. Minerals	Date	7-24-51
To:	Reports Records	Date	9-25
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INT.-DUP. SEC., WASH., D.C. 98868

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

WASHINGTON 25, D. C.

December 13, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1869, Alice M. and Helen M. Beryl claims, Larimer County, Colorado - Applicant, H. C. Weber, Bellvue, Colorado

Enclosed herewith are the original and two copies of the report on the subject docket and a copy of the letter of denial to the applicant.

We concur with the conclusions and recommendations of the examining geologist that the exploration loan of $10,000.00 be denied.

for Paul Wallman
J. H. East, Jr.

A. H. Koschmann
A. H. Koschmann

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

224 New Customhouse
Denver 2, Colorado

December 13, 1951

Mr. H. C. Weber
Bellvue, Colorado

Dear Mr. Weber:

Your application for government assistance in exploration work on the Alice M. and Helen M. Beryl claims, at an estimated cost of $10,000 has been reviewed by the Defense Minerals Administration and a field examination completed.

A study of exposures and geologic data available does not indicate that additional beryl deposits, large enough to be of importance to the national defense, would be discovered. Therefore, your application for the exploration loan is denied.

We wish to thank you for bringing this property to the attention of the Government.

Very truly yours,

Paul T. Allsman for
J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV

cc: Executive Secretary, DMA Wash.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 1 1951

December 10, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1869, Alice M. and Helen M. Beryl Claims, Larimer County, Colorado

Attached are 8 copies of the geologic report by C. S. Robinson covering subject docket--Alice M. and Helen M. beryl claims, Larimer County, Colorado.

The beryl deposits on the Helen M. and Alice M. claims occur in pods in pre-Cambrian pegmatite dikes. A study of these dikes as well as a general study of the pegmatite dikes in this general area by members of the Geological Survey show that the beryl deposits are too small and sporadic to warrant exploration. There are no other minerals of commercial interest in these dikes. Robinson therefore recommends that the application for a loan be denied, with which I concur.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (8)

FILE COPY
SURNAME:

Waskey

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

370

September 24, 1951

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1869-X, Beryl
Henry C. Weber
Bellvue, Colorado
Amount - 93% of $10,000

Should not this be transferred to Mr. J. H. East, Jr., Field Team, Region IV, for action under delegated authority to process?

Attached:

1. Application Form MF-103 with supplemental information.

2. Memo from W. R. Griffitts, dated Sept. 20, 1951, in duplicate.

SIGNED BF 9-26

R. Waskey, Acting Chief

RWASKEY:mp
9-24-51
cc: DMA Docket File
Mr. Barr

3 copies MF-103 + att.
memo 9-20-51 to R. Waskey.
" 9-24-51 to R+R.
all to Region IV 10-4-51.

G-MD-WRG

September 20, 1951

Memorandum

To: Robert Waskey, Defense Minerals Administration

From: W. R. Griffitts, U. S. Geological Survey

Subject: Application DMA-1869 from Henry C. Weber for beryl exploration in Larimer County, Colorado.

The files of the Geological Survey contain no data on the Alice M or Helen M claims. It is not unlikely that the deposits claimed contain beryl, as the mineral is common in the nieghborhood. Only four deposits out of many hundreds that were examined in the Crystal Mountains district, a few miles to the south have been mineable, however.

The application should be referred to the field team to determine:

1. If zones are evident, the shape, position and size of the beryl-bearing zone, and the uniformity of beryl distribution.

2. The shape, dimensions and altitude of the pegmatite body.

3. The beryl content, size of crystals and percentage of the beryl recoverable by hand cobbing.

4. The composition and texture of the beryl-bearing rock.

5. Possible by-products that would permit profitable mining of the deposit.

6. The least costly means of exploring the deposit. How much of the $10,000 is to be spent on "construction of approach?" Is it necessary for exploration?

copy to: Defense Minerals Administration

W. R. Griffitts

FILE COPY
SURNAME:

Barr

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

July 27, 1951
Code 370

Mr. Henry C. Weber
Bellvue
Colorado

Dear Mr. Weber:

Subject: DMA-1869X, Beryl

Regarding your application for aid for an exploration project on beryl deposit at Mr. Ethyl, Colorado, docketed as DMA-1869X, it is necessary that additional information be supplied in order to enable processing.

Referring to Form MF-103, please furnish answers to question numbers 4 to 7, inclusive, 12 to 14, inclusive, 21, 22, and 24. Please amplify answer to questions 10 (a) and 10 (b), to enable a precise identification of the property. If available, a map should be supplied.

If possible, please submit samples of your beryl ore.

Further consideration of your proposal may or may not include examination by DMA Field Team.

Sincerely yours,

James Barr
M.P.

James A. Barr, Sr., Chief
Industrial Minerals Branch

RWASKEY:mp
cc: Reports and Records
Mr. Barr
DMA Files

ALICE M. AND HELEN M.

BERYL CLAIMS

LARIMER COUNTY, COLORADO

DMA DOCKET 1869

By C. S. Robinson
U. S. Geological Survey

ALICE M. AND HELEN M. BERYL CLAIMS
LARIMER COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By C. S. Robinson

The Helen M. and Alice M. claims, owned by H. C. Weber, are in secs. 21 and 28, T. 8 N., R. 71 W., Larimer County, Colorado. The beryl on these claims occurs in pods in pre-Cambrian pegmatite dikes. It is estimated that the properties contain only 3 tons of inferred beryl, the only mineral of commercial importance. The $10,000 for exploring these claims as estimated by H. C. Weber is too low. A study of these dikes as well as a general study of pegmatite dikes in this area by members of the Geological Survey show that the beryl deposits are too small and sporadic to warrant exploration. It is recommended that this DMA loan be denied.

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* * *

ALICE M. AND HELEN M. BERYL CLAIMS
LARIMER COUNTY, COLORADO

INTRODUCTION

The Alice M. and Helen M. beryl claims in Larimer County, Colorado, were visited on November 14, 1951, in company with Albert Trites of the U. S. Geological Survey, and H. C. Weber, owner of the claims.

The Helen M. claim is in the SE$\frac{1}{4}$ sec. 21, T. 8 N., R. 71 W., at an altitude of about 7,700 feet. There is no road or trail to this property, but a logging road which joins the Rist Canyon road at the Stratton Park school, about 8 miles west of Bellvue, Colorado, ends within about a quarter of a mile of the claim. The Alice M. claim is in the SW$\frac{1}{4}$ sec. 28, T. 8 N., R. 71 W., at an altitude of about 7,900 feet. There is no road or trail to this property, but the Stove Prairie county road is about half a mile to the west of the claim.

There is no geologic report on this area. The area is included on the topographic map of the Livemore quadrangle, Colorado.

Mr. Weber has requested a DMA exploration loan of $10,000 to buy or rent equipment, to improve the roads to the properties, and for labor to open exposed beryl deposits.

GEOLOGY

The beryl in the area of the Helen M. and Alice M. claims occurs in pre-Cambrian pegmatite dikes in a wide belt of pre-Cambrian rocks on the east slope of the Front Range of Colorado. The country rock primarily

consists of quartz-hornblende schist, hornblende schist, quartzites, and granite gneisses, which are intruded by pegmatite dikes that are conformable to and also crosscut the foliation of the schists and gneisses. The beryl is restricted to certain zones within the pegmatite dikes.

The pegmatite dike on the Helen M. claim, in which the beryl occurs, is about 300 feet long and averages about 20 feet wide. It strikes about N. 50° E. and is vertical, which is also the attitude of the foliation of the enclosing schist. The beryl occurs in a pod exposed at the northeast end of the pegmatite. The pod averages about 3 feet wide, 10 feet high, and is about 10 feet long. The average grain size is about 3 inches. From a mineral count Albert Trites calculated the following composition for the pod: Plagioclase, 30 percent; quartz, 25 percent; perthite, 25 percent; beryl, 10 percent; muscovite, 10 percent. The beryl crystals range from 1 inch to 1 foot in diameter, averaging about 3 inches in diameter. The muscovite averages 1.5 inches in diameter. In the wall zone surrounding the pod, the average grain size is 2 inches. This zone consists of plagioclase, quartz, muscovite (average grain size, three-fourth of an inch), perthite, and accessory garnet and tourmaline. Other than in the pod described, no beryl was found in the pegmatite dike.

The pegmatite dike on the Alice M. claim is irregular in shape and about 1,500 feet long and 1,200 feet wide. The long dimension trends northeasterly. At the northeast end of the pegmatite exposed in a small pit is a quartz pod containing beryl. The pod is about 10 feet long and 6 feet wide and is composed of about 25 percent quartz, 10 percent perthite, 5 percent plagioclase, and less than 1 percent beryl and muscovite. Only one crystal of beryl, about 4 inches in diameter, was

exposed, but Mr. Weber reports that he shipped 1,000 pounds of beryl from this pit. The pit hardly seems large enough to have supplied this amount of beryl. The average grain size of the quartz and feldspar is about 2 feet. The muscovite crystals are about one-eighth of an inch in diameter. The crystals of the wall zone averaged about 3 to 5 inches in diameter, and the zone is composed of plagioclase, quartz, perthite, and muscovite (grain size half an inch in diameter). At two other places in the pegmatite, a very few small crystals of beryl of less than 1 inch in diameter were seen. These occurred in pods composed of plagioclase, perthite, muscovite, and quartz. The beryl content was considerably less than 1 percent.

ORE RESERVES

No measured or indicated ore reserves could be calculated for these deposits. On the basis of the geology, the following inferred ore reserves are calculated:

Helen M.:

Pod: 10 x 10 x 3 feet = 300 cubic feet

300 cu. ft. (@ 12 cu. ft. of rock/ton) = 25 tons

25 tons containing 10% beryl = 2.5 tons of beryl

Alice M.:

Pod: 10 x 10 x 6 feet = 600 cubic feet

600 cu. ft. (@ 12 cu. ft. of rock/ton) = 50 tons

50 tons containing 1% beryl = 0.5 tons of beryl

Total inferred ore reserves of beryl on Helen M. and Alice M. claims equals 3 tons.

No other minerals were of a grade or quality to be mineable.

CONCLUSIONS AND RECOMMENDATIONS

The beryl deposits on the Helen M. and Alice M. claims contain 3 tons of inferred beryl reserves. There are no other minerals of commercial interest in these dikes. A study of these dikes as well as a general study of pegmatite dikes in this area by members of the Geological Survey suggest that the pods carrying beryl are relatively small and sporadic in occurrence and that these dikes do not merit further exploration. It is recommended that this loan be denied.

It should also be pointed out that $10,000 would hardly be sufficient to cover the cost of the exploration. Mr. Weber has underestimated the amount of road work and the cost of labor and equipment that would be required to explore these properties.

July 25, 1951

Mr. Henry C. Weber
Bellvue
Colorado

Subject: DMA-1869
Re: Exploration Loan -
Helen M.

My dear Mr. Weber:

Receipt is acknowledged of your application and attachments for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1869 and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on July 24, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1869.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
Barr
Lyon

Form MF-23
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1869

Date received 7-23-51

Participation

Name and address of applicant

Henry C. Weber
Bellvue Colo.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 23 1951
LAWSON F. STROBEL
Executive Secretary

Date

FILL IN THIS BLOCK

Date of application July 12, 1951

Estimated cost 10,000

Mineral or metal Beryl

Percentage of Government participation 90%

Location of mine Mt. Ethyl

Date of filing MF-100

DMA Docket Number, if available 1869

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner ~~or the lessee~~ of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
1000 9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. Section 21 Twp. 8 N. R. 71 West Larimar Co, Colo.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any. Helen M.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Nichols at Evergreen Colo.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. none

*17. Production:

(*a*) If mine is in production, furnish the following information: not in production

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) unknown

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Beryl

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

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(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By Henry C. Weber (Signature of authorized official)
(Date)	(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

200 man days $10 pr. day	$2000
Supervisor 200 days $12	2400
One building tool and shop	200
Road repair	200
Drill steal and sharper	300
Powder and caps	300
Mine timber	250
Gas, oil, and greas	500
Rental equipment	1500
	7650
Miscellous (Insurance)	2350
total	10000

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1869

Date received 7-23-51

Participation

Name and address of applicant

Henry C. Weber
Bellvue Colo.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 23 1951
LINDON P. STROBEL
Executive Secretary

Date July 12, 1951

FILL IN THIS BLOCK

Date of application July 12 1951

Estimated cost 10,000

Mineral or metal Beryl

Percentage of Government participation 90%

Location of mine Mt. Ethyl

Date of filing MF-100

DMA Docket Number, if available 1869

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NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

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*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

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State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Nichols at Evergreen Colo.

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CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By Henry C. Weber (Signature of authorized official)
(Date)	(Title)

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*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

200 man days $10 pr. day	$2000
Supervisor 200 days $12	2400
One building tool and shop	200
Road repair	200
Drill steal and sharper	300
Powder and caps	300
Mine timber	250
Gas, oil, and greas	500
Rental equipment	1500
	7650
Miscellous (Insurance)	2350
total	10000