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

July 30, 1951

Code 370

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1533X, Harold C. Duncan
Commodity: Mica
Amount of loan: $31,125

Denial recommended because:

1. A sound geologic basis to justify exploration is not established.

2. Field examination did not indicate presence of strategic minerals sufficient to justify proposed exploration.

Attached:

Form MP-103 in duplicate with attachments.

Field Report from Region V.

James Barr
M. P.

James A. Barr, Sr.

Approved:
Tom Lyon

Director, Supply Division

RWASKEY:mp
cc: Mr. Lyon
Mr. Barr
Field Team, Region V (2)
DMA Files

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

370

July 30, 1951

Mr. Harold C. Duncan
622 Gaspin Street
Lead, South Dakota

Subject: DMA-1533-T

Dear Mr. Duncan:

Your application for aid for an exploration project on Mica and Beryl deposit located on Diamond Dick Property and designated as DMA-1533-T, has been reviewed by this office.

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

A very careful study of your proposal revealed the following:

1. A sound geologic basis to justify additional exploration on the deposit has not been established.

2. A field examination failed to establish the presence of strategic minerals in sufficient quantities to justify the proposed work.

Under these circumstances, your application for exploration aid to the extent of 50 per cent of $31,125 is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

JWaskey:awj

cc:Adm. Redding File
File
Reports & Records Unit
Mr. Lyon
Mr. Barr

Field Team

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2908 Colfax Avenue South
Minneapolis 8, Minnesota

July 6, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration, Interior Building, Washington 25, D. C.

From: Executive Officer - DMA Field Team, Region V

Subject: DMA Dockets 1533-X, 1558-X and 1682-X

Returned are the subject dockets, together with the Field Team report in quadruplicate, one each of the a above-mentioned proposals.

You will note that DMA 1682-X and 1533-X were not approved because of geologic reasons.

DMA Docket 1558-X was considered a development project and recommendations for change inproposal were made with the consent of the owner. The new proposal by the Field Team consists of core drilling to indicate continuity and composition of the deposit before further work would be undertaken by the applicant.

Enclosures:

A. B. Needham

ABNEedham:mlc

xx: Reg.Dir-Reg.V
Mining Div-Reg.V
df
Files

C O P Y

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines
Rapid City Field Office-
School of Mines Campus
Rapid City, South Dakota

July 3, 1951

Memorandum:

To: A. B. Needham, Executive Officer, DMA Field Team, Reg. V

From: Supervising Engineer, Rapid City Field Office

Subject: Exploration Projects: 1558X, 1682X, and 1533X

Enclosed are the subject applications, together with five copies each of the respective reports by examining engineers.

I presume that some day copies of these applications, together with the supporting papers, will be available for our files. I am retaining one copy of each report.

If we are to obtain subordinating agreements from owners and others, we will need a supply of Form MF-201.

/s/ D. H. Mullen
D. H. Mullen

cc: Reg. Director, Reg.V
files

xxxxxxxxxxxxxx
2908 Colfax Avenue South
Minneapolis 8, Minnesota

June 25, 1951

Memorandum

To: D. H. Mullen, Supervising Engineer - U. S. Bureau of Mines - School of Mines Campus - Rapid City, South Dakota

From: Executive Officer - DMA Field Team - Region V

Subject: DMA Docket No. 1533-X - Harold C. Duncan

Enclosed is the subject exploration application which requires a field investigation for certain phases of the project. Please make it and try to get the report in as soon as possible.

Apparently we will not be able to meet a June 30th deadline as to signing any contracts even if the field team approves the undertaking.

Enclosures:
ABNeedham:alc
cc: Reg.Dir-Reg.V
Mining Div-Reg.V
df
Files

A. B. Needham

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

File

JUN 20 1951

Mr. A. B. Needham
2908 Colfax Ave. South
Minneapolis, Minnesota

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1533X

Commodity Beryl, Mica, Feldspar

Applicant Harold C. Duncan, South Dakota, Custer County

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

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

June 20, 1951

Mr. Harold C. Duncan
622 Canyon Street
Lead, South Dakota

Dear Mr. Duncan:

Subject: DMA-1533X

Your application is being referred to the Defense Minerals Administration Field Team, Region V, for further information.

Sincerely yours,

Tom Igoe, Director
Supply Division

mp

cc: Mr. Strobel
Mr. Barr
Administrator's Reading File
Field Team, Region V (2)
DMA Files

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

June 20, 1951

Mr. Harold C. Duncan
622 Canyon Street
Lead, South Dakota

Dear Mr. Duncan:

Subject: DMA-1533X

Your application is being referred to the Defense Minerals Administration Field Team, Region V, for further information.

Sincerely yours,

Tom Igoe, Director
Supply Division

mp

cc: Mr. Strobel
Mr. Barr
Administrator's Reading File
Field Team, Region V (2)
DMA Files

2908 Colfax Avenue South
Minneapolis 8, Minnesota

May 31, 1951

Mr. Landon F. Strobel
Executive Secretary to the Administrator
of the D.M.A.
Room 4623
Interior Building
Washington 25, D. C.

Dear Mr. Strobel:

Enclosed are four copies of an application for exploratory aid from Harold C. Duncan, 622 Canyon Street, Lead, South Dakota, to search for beryl and mica eight miles south of Custer, South Dakota.

The estimated cost of the project is $31,125, and based on a 90-10 participation, the Government's share would be $28,012.

This application came in after the teletype from Mr. Lyon requesting the number of applications on hand at that time.

Two applications, which were sent to this office, were returned to the applicant because they were incorrectly made out.

Very truly yours,

A. B. Needham
Executive Officer - DMA Field Team,
Region V

Enclosures:
ABNeedham:mls
cc: Reg.Dir-Reg.V
Mining Div-Reg.V
DM
Files ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

DMA-1XXXX

Diamond Dick Pegmatite, Custer District

Custer County, South Dakota

Glen Walker, Mining Engineer
U. S. Bureau of Mines

M. H. Staatz, Geologist
U. S. Geological Survey

July 5, 1951

DEFENSE MINERALS ADMINISTRATION
Report of Field Examination

by

Glen Walker, Mining Engineer
U. S. Bureau of Mines

M. H. Staatz, Geologist
U. S. Geological Survey

Project No.: DMA 1[illegible]
Property: Diamond Black
Applicant: Harold G. [illegible]
Commodity: Beryl

Conclusions and Recommendations

The applicant's proposal on this property is not feasible because of the small size of the deposit and apparent absence of strategic minerals.

Exhibit A

The Diamond Black claim covers two small pegmatites on the same ridge. The location notice is on the southernmost pegmatite, which is exposed over a length of 57 feet and a maximum width of 46 feet. This pegmatite in cross-section is mutilated with the quartz at the crest of the mutilation as exposed in the open pit. This open pit is L-shaped cutting across the center of the pegmatite, and is 30 feet long and up to 20 feet wide. The pegmatite is flat-lying and both upper and lower contacts are exposed. A small fault cuts across the north end of the deposit, showing a 3-foot horizontal offset.

The pegmatite consists of a wall zone and core. The wall zone is about 5 feet thick and has an average grain size of 6 inches. It is estimated to consist of perthite (56 percent), quartz (25 percent), muscovite (10 percent), albite (4 percent), garnet (less than 1 percent), lithiophilite-triphylite (trace). Muscovite is concentrated chiefly in the outside foot of the wall zone. It averages 1 to 2 inches across, but is in books up to 6 inches across.

The mica is a clear ruby color with some ruling and a little mineral stain. Most of the mica is too small to be of any use except as scrap. Most of the perthite is in the form of graphic granite.

The core is 5 to 6 feet thick and has an average grain size of 2 feet. It is estimated to contain perthite (60 percent), quartz (30 percent), albite (4 percent), muscovite (4 percent), tourmaline (2 percent), and lithiophilite-triphylite (less than 1 percent). The perthite is cream colored and unstained, but contains 5 to 10 percent of scattered quartz. Muscovite occurs in scattered slabs. No beryl was noted in this pegmatite.

Another pegmatite 60 feet north of the one described strikes east, dipping to a north strike of the previously described deposit. The pegmatite has a maximum width of 30 feet and dips north at an angle slightly steeper than the hill slope. At the east end the bottom of the pegmatite has a heavy inclusion of schist, which is exposed in an open pit. This pit is 40 feet long by 24 feet wide, with a maximum depth of 30 feet. Two other pits, 15 by 7 feet and 24 by 15 feet, explore this dike. This pegmatite is 12 to 15 feet thick, as exposed on the east end, and is divided into a wall zone and core of similar composition to the deposit previously described. The core is 3 to 5 feet thick and one beryl crystal 2½ inches in diameter is found.

Considering both these pegmatites, the property is not a good risk because of the small size of the minable units (cores), the low grade of the strategic minerals, and the lack of sufficient amounts of other minerals to support the property. In addition, the exploratory work previously done definitely shows the small size of the deposit and no minerals of strategic or critical value have been exposed. It is the opinion of the examining engineers that further exploration will not reveal any additional information.