DMA Form 1 370

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1533X

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

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: Mr. Lyon Date 7-31

To: Reports + Records Date 8-1-51

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

DO NOT DETACH

CONTROLLED DOCUMENT

INT.-DUP. SEC., WASH., D.C. 98868

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

320

July 30, 1951

a. E. e.

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 stragegic minerals sufficient to justify proposed exploration.

Attached:

Form MF-103 in duplicate with attachments.

Field Report from Region V.

James A. Barr

James A. Barr, Sr.

Approved:

Tom Lyon

Director, Supply Division

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

July 30, 1951

Mr. Harold [illegible]
622 [illegible] Street
Lead, South Dakota

Subject: [illegible]

Dear Mr. [illegible]:

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Your [illegible],

Tom Lyon

Tom Lyon
Director, [illegible]

JHaskey:amj.

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

FILE COPY
SURNAME:

Barr

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 MF-103 in duplicate with attachments.

Field Report from Region V.

B3
P7

James Lake
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

FILE COPY
SURNAME:

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

a.s.c.

Barr

July 30, 1951

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

Subject: DMA-1533-A

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-A, has been reviewed by this office.

Projects approved by the Defense Minerals Administration must, in the 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 reveals the following:

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

2. A thorough 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 75 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

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

BUREAU MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

Harold C Duncan

DMA-DEXX

Diamond Disk 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

STRATEGIC MINERALS ADMINISTRATION
Report of Field Examination

by

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

H. H. Thomas, Geologist
U. S. Geological Survey

Docket No.: [illegible]
Property: Diamond Dick
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 Dick claim covers two small pegmatites on the same ridge. The location notice is on the southernmost pegmatite, which is exposed over a length of 87 feet and a maximum width of 45 feet. This pegmatite in cross-section is anticlinal with the schist at the crest of the anticline as exposed in the open pit. This open pit is L-shaped cutting across the center of the pegmatite, and is 50 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 feet of the wall zone. It averages 1 to 2 inches across, but is in books up to 8 inches across.

The mica is a clear ruby mica 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 8 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 green colored and unstained, but contains 5 to 10 percent of shattered quartz. Muscovite occurs in shattered slots. No beryl was noted in this pegmatite.

Another pegmatite 64 feet north of the one described strikes east, compared to a north strike of the previously described deposit. The pegmatite has a maximum width of 65 feet and dips north at an angle slightly steeper than the hill slope. At the east end the bottom of the pegmatite has a sharp in-fold 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 cuts, 15 by 7 feet and 26 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 2 to 3 feet thick and one beryl crystal 3½ 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.

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

BUREAU MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

DRA-1[illegible]

Diamond Dick Pegmatite, Custer District

Custer County, South Dakota

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

M. N. Staats, Geologist
U. S. Geological Survey

July 3, 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

Docket No.: [illegible]
Property: Diamond Disk
Applicant: Harold C. [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 Disk 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 48 feet. This pegmatite in cross-section is anticlinal with the schist at the crest of the anticline as exposed in the open pit. This open pit is L-shaped cutting across the center of the pegmatite, and is 50 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 5 inches. It is estimated to consist of perthite (55 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 4 to 6 feet thick and has an average grain size of 2 feet. It is estimated to contain perthite (80 percent), quartz (20 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 clots. No beryl was noted in this pegmatite.

Another pegmatite 65 feet north of the one described strikes east, compared to a north strike of the previously described deposit. The pegmatite has a maximum width of 35 feet and dips north at an angle slightly steeper than the hill slope. At the east end the bottom of the pegmatite has a sharp in-fold 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 cuts, 15 by 7 feet and 25 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 2 to 3 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 consulting engineers that further exploration will not reveal any additional information.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

DMA-1533X

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 3, 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

Docket No.: DMA 1533X
Property: Diamond Dick
Applicant: Harold C. Duncan
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 Dick 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 45 feet. This pegmatite in cross-section is anticlinal with the schist at the crest of the anticline as exposed in the open pit. This open pit is L-shaped cutting across the center of the pegmatite, and is 50 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 8 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 clots. No beryl was noted in this pegmatite.

Another pegmatite 65 feet north of the one described strikes east, compared to a north strike of the previously described deposit. The pegmatite has a maximum width of 55 feet and dips north at an angle slightly steeper than the hill slope. At the east end the bottom of the pegmatite has a sharp in-fold 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 cuts, 13 by 7 feet and 26 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 2 to 3 feet thick and one beryl crystal $2\frac{1}{2}$ 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.

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. D.M.A. 1533 X

Commodity Beryl, Mica, Feldspar

Total Amount $31,125.00

Govt. Participation 90%

1. Name and Address of Applicant Harold C. Duncan
622 Canyon St., Lead, South Dakota

2. Location of Property 8 mi. southeast of Custer, Custer County
South Dakota

3. Mineral or metal Beryl, Mica, Feldspar Is it listed in Section 9 of MO-5? Yes.

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination Yes. ~~Field team should determine~~

e) Is there an alternative and favorable project? mica & beryl reserve
(If so, attach an explanation)

Am certain that the exploration can be carried out at a cheaper cost.

No available information. JAR 4/2/51

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future

productive period? —

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? —

b) MF-202 —

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? No.

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? see draft If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? Any bryl + mica found (usually in bellpoy) is mined out + exploration extended from there pockets.

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Wages given are OK. - no other costs included

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft. see draft

c) Are rents and charges reasonable? appear high.

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

14. Exhibit E (question 23-c)*

a) Is it applicable? No - no building or facilities on property

b) Sufficient data? Yes

c) Reasonable? ——

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Property should be checked to see if the conditions are promising, type of zoning in proximity to

If examination of presently available exposures indicates presence of Beryl & strategic mineral in quantities to justify further work - Try to work out simplest possible adequate Exploration Program with Applicant & have him submit revised schedule of Costs & Requirements - [illegible]

Reviewed by: [signature]

Date 6/12/57

97692

6/17/51 Docket No. MA 1533 X

Section 10 Exhibit A.

The application merely lists the amount of shaft sinking, drifting + raising to be done - gives no details as to location of this work or specific geological reasons for it - only states that other pegmatites carry the minerals desired + that this dike has some of them exposed. The project probably contemplates sinking on one of the pegmatites & exploring it at depth. Most of the beryl + mica in this area occur irregularly + are mined as found little reserve can be developed or calculated.

Section 11 - Exhibit B.

A hoist house + tool shed are necessary for weather protection + the cost given is reasonable

Section 12 Exhibit "C".

The equipment listed will be needed as well as additional items - ie. - drill steel, bits, ~~small tools~~ etc - the costs listed appear high. Some of items listed for purchase might be rented locally -

Section 16

Recommendation -

If bral. Survey does not have detailed data on this property the application should be referred to field for quick inspection to see if the property is one of the promising ones in this area -

AMP

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. D.M.A. 1533 X

Commodity Beryl, Mica, Feldspar

Total Amount $31,125.00

Govt. Participation 90%

1. Name and Address of Applicant Harold C. Duncan
622 Canyon St., Lead, South Dakota

2. Location of Property 8 mi. southeast of Custer, Custer County
South Dakota.

3. Mineral or metal Beryl, Mica, Feldspar Is it listed in Section 9 of MO-5? Yes.

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination Yes. No available information. Big to know results of previous mine & local reports

e) Is there an alternative and favorable project? (If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period? —

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 - 1951
LANDON F. STROBEL
Executive Secretary

*question numbers are those of MF-103

7: Are subordination agreements necessary? No

a) MF-201? —

b) MF-202 —

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? No

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? see draft If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? Any bauxite & mica found (usually in holdings) is mined out + exploration extended from these pockets.

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Wages given are OK. - no other costs included

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft. see draft

c) Are rents and charges reasonable? appear high.

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

14. Exhibit E (question 23-c)*

a) Is it applicable? No - no building or facilities on property

b) Sufficient data? Yes

c) Reasonable? ——

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Property should be checked to see if the conditions are promising, type of zoning in regards to

If examination of presently available exposures indicates presence of Beryl & strategic mica in quantities to justify further work - Try to work out simplest possible adequate Exploration Program with Applicant & have him submit revised schedule of Costs & Requirements - RWP

Reviewed by: [illegible]

Date 6/12/51

97692

6/12/81

Docket No. [illegible]1A 1533 X

Section 10 Exhibit A.

The application merely lists the amount of shaft sinking, drifting & raising to be done - gives no details as to location of this work or specific geological reasons for it - only states that other pegmatites carry the minerals desired & that this site has some of them exposed. The project probably contemplates sinking on one of the pegmatites & exploring it at depth. Most of the beryl + mica in this area occur irregularly + are mined as found little reserve can be developed or calculated.

Section 11 - Exhibit B.

A hoist house & tool shed are necessary for weather protection & the cost given is reasonable

Section 12 Exhibit "C".

The equipment listed will be needed as well as additional items - ie. drill steel, bits, ~~[illegible]~~ etc - the costs listed appear high. Some of items listed for purchase might be rented locally.

Section 16

Recommendation -

If bureau Survey does not have detailed data on this property the application should be referred to bureau for geneck inspection to see if the property is one of the promising areas in this area -

[illegible]

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 1533X

Date received 6-4-51

Participation

Harold C. Duncan
622 Canyon Street
Lead, South Dakota

Name and address of applicant

Date 25 May 1951

FILL IN THIS BLOCK

Date of application 25 May 1951

Estimated cost $31,125.00

Mineral or metal Beryl, Mica, Feldspar

Percentage of Government participation

Location of mine Eight miles southeast of Custer, South Dakota

Date of filing MF-100 None filed

DMA Docket Number, if available ~~None~~ 1533X

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.
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.
    (*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.

*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.

*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.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	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.)
    (*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?

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.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*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.

Individual
(Name of company)

By Harold C. Duncan
(Signature of authorized official)

May 28, 1951
(Date)

Owner
(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

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Unincorporated.

4. Four years mining feldspar. (Mica, beryl, columbium-tantalum, and lithia ores were by-products of this operation). Two years pegmatite mining as an employee, and two and one half years, and working for the Homestake Mining Company.

5. Owner.

6. None.

7. Not leased.

8. Applicant has not operated this property other than the necessary assessment work. The Black Hills Mica Company leased this property during World War 11 but this operation was lived on account of the cessation of the federally supported mica buying program. No production figures are available.

9. Ten per cent of cost.

THE PROPERTY

10. (a) Twenty acre claim that embraces pegmatite dike that runs approximate 400' along lode line of claim.

(b) The claim is situated about 1½ miles south of the Graham Ranch, and about one mile from the Havens Homestead, and about eight miles south east of Custer. It will be found recorded with the Register of Deeds, Custer, South Dakota in Book 17 of Locations, on page 324.

11. Originally called the Victory Lode, now relocated under the name of the Diamond Dick Lode.

12. Eight miles from Custer, nearest shipping point. Gravel road maintained in good condition all year round.

13. No water close to property but can be hauled for drinking purposes, and for cooling systems on motors and compressors.
About 140 H.P. using about 25 gallons of gasoline daily, hauled from Custer

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

Page Two

THE PROPERTY Cont'd

14. None, except timber.

15. Ore could be hauled to Custer and shipped via Burlington Railroad. No milling facilities available.

16. (a) Open Cut approximately 60' long, 8' wide, and a 12' face. Assessment work done on two different locations.

(b) Nearest property that has operated is the Dakota three miles south. This property has produced some beryl and mica, it was operated for feldspar.

(c) Lincoln Page of the Geological Survey visited the property and stated that he thought that it was a good prospect. No written report was made.

17. Mine not in production.

18. (a) Pegmatite intrusion that is about 60' wide , and that is exposed for a distance of about 400' along lode line. Mineralized zone showing mica and beryl.

(b) No assays or maps have ever been made.

(c) Impossible to estimate with present developement.

19. Can recall no condition or circumstance not already covered.

THE EXPLORATION

20. Beryl, mica, and other minerals of the pegmatites.

21. Shaft 100', drifts 150', and raise 125'. Time required approximately forty 5 day weeks.

22. The geologic basis for the exploration being the fact that the pegmatites are known to carry the above minerals, and that this particular dike has some of these minerals exposed. No maps or other data available, and the time limit does not permit the acquiring of these items.

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

Page Three

THE REQUIREMENTS AND COSTS

23.	(a)	Two miners per day	$24.00	
		One top man per day	8.80	
		One hoist man per day	12.00	
		Labor cost of job		$ 11,200.00
	(b)	One supervisor @ $350.00 per month		4,200.00
	(c)	None		
	(d)	Tool shed and hoist house		800.00
	(e)	Air Compressor	$ 4,000.00	
		Hoist	2,500.00	
		Water head drill	800.00	
		3/4 Ton pickup truck	1,750.00	
				9,050.00
	(f)	None		
	(g)	None		
	(h)	Powder, caps, carbide, rails, and pipe, insurance		4,000.00
	(i)	Power derived from gasoline, 25 gallons per day		1,875.00
		Total cost of job		$ 31,125.00

24. Job figured at the rate of 50 five day weeks, or approximately one year at which time job is expected to be completed and money expended.

EXECUTIVE SECRETARY
STATE OF CALIFORNIA
OCT 1 - 1951
RECEIVED
DIVISION OF MINES
DEPARTMENT OF THE INTERIOR

FILE COPY
SURNAME:

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

Burr
Moon
McKnight for Roop

Mailed
Daily
letter 6/21/51

June 20, 1951

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

Dear Mr. Duncan:

Subject: DMA-15331

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

Sincerely yours,

Tom Lyon, Director
Supply Division

jg

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

Duncan 15 33

FILE COPY
SURNAME:

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

June 18, 1951

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

Subject: DMA-1533X
Re: Exploration Loan
Diamond Dick Lode

My dear Mr. Duncan:

Receipt is acknowledged of your application and attachments of May 31, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1533X and was referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1533X.

Sincerely yours,

LANDON F. STROBEL jp

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel
Files
Barr
Lyon

2938 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:

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 1533

Date received 6-4-51

Participation

Name and address of applicant

Harold C. Duncan
628 Canyon Street
Lead, South Dakota

Date 25 May 1951

FILL IN THIS BLOCK

Date of application 25 May 1951

Estimated cost $31,125.00

Mineral or metal Beryl, Mica, Feldspar

Percentage of Government participation

Location of mine Eight miles southeast of Custer, South Dakota

Date of filing MF-100 None filed

DMA Docket Number, if available 1533

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.
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.
    (*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.

*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.

*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.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	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.)
    (*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?

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.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*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.

Individual (Name of company) By Harold C. Duncan (Signature of authorized official)

July 20, 1961 (Date) Owner (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

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Unincorporated.

4. Four years mining feldspar. (Mica, beryl, columbium-tantalum, and lithia ores were by-products of this operation). Two years pegmatite mining as an employee, and two and one half years, and working for the Homestake Mining Company.

5. Owner.

6. None.

7. Not leased.

8. Applicant has not operated this property other than the necessary assessment work. The Black Hills Mica Company leased this property during World War II but this operation was lived on account of the cessation of the federally supported mica buying program. No production figures are available.

9. Ten per cent of cost.

THE PROPERTY

10. (a) Twenty acre claim that embraces pegmatite dike that runs approximate 400' along lode line of claim.

(b) The claim is situated about 1½ miles south of the Graham Ranch, and about one mile from the Havens Homestead, and about eight miles south east of Custer. It will be found recorded with the Register of Deeds, Custer, South Dakota in Book 17 of Locations, on page 234.

11. Originally called the Victory Lode, now relocated under the name of the Diamond Nick Lode.

12. Eight miles from Custer, nearest shipping point. Gravel road maintained in good condition all year round.

13. No water close to property but can be hauled for drinking purposes, and for cooling systems on motors and compressors.
About 140 H.P. using about 25 gallons of gasoline daily, hauled from Custer

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

Page Two

THE PROPERTY Cont'd

14. None, except timber.

15. Ore could be hauled to Custer and shipped via Burlington Railroad. No milling facilities available.

16. (a) Open Cut approximately 60' long, 8' wide, and a 12' face. Assessment work done on two different locations.

(b) Nearest property that has operated is the Dakota three miles south. This property has produced some beryl and mica, it was operated for feldspar.

(c) Lincoln Page of the Geological Survey visited the property and stated that he thought that it was a good prospect. No written report was made.

17. Mine not in production.

18. (a) Pegmatite intrusion that is about 60' wide , and that is exposed for a distance of about 400' along lode line. Mineralized zone showing mica and beryl.

(b) No assays or maps have ever been made.

(c) Impossible to estimate with present developement.

19. Can recall no condition or circumstance not already covered.

THE EXPLORATION

20. Beryl, mica, and other minerals of the pegmatites.

21. Shaft 100', drifts 150', and raise 125'. Time required approximately forty 5 day weeks.

22. The geologic basis for the exploration being the fact that the pegmatites are known to carry the above minerals, and that this particular site has some of these minerals exposed. No maps or other data available, and the time limit does not permit the acquiring of these items.

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

Page Three

THE REQUIREMENTS AND COSTS

23. (a) Two miners per day $24.00
One tool man per day 8.00
One hoist man per day 12.00
Labor cost of job $ 11,200.00

(b) One supervisor @ $350.00 per month 4,200.00

(c) None

(d) Tool shed and hoist house 800.00

(e) Air Compressor $ 4,000.00
Hoist 2,500.00
Water head drill 800.00
3/4 Ton pickup truck 1,750.00 9,050.00

(f) None

(g) None

(h) Powder, caps, carbide, rails, and pipe, insurance 4,000.00

(i) Power derived from gasoline, 25 gallons per day 1,675.00

Total cost of job $ 31,125.00

24. Job figured at the rate of 50 five day weeks, or approximately one year at which time job is expected to be completed and money expended.

Engineering Department
Fisher & Singer
JAN 9 - 1951
Received
Department of the Interior

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Mailed
6/20/51

Please do not use this form. I have to retype on ditto sheet (who too?)

June 14, 1951

~~Memorandum~~

To: Lowell B. Moon, Coordinating Committee

From: James A. Barr, Industrial Minerals Branch

Subject: DMA-1194X and DMA 1533X
Lauricke Needham

Files on subject applications attached with recommendation for transmittal to field team.

James Barr
M B

James A. Barr, Sr.

RW:dak

cc: Mr. Strobel
Mr. Barr
Files

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER R

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 1533X

Date received 6-4-51

Participation

Harold [illegible]
[illegible] Copper [illegible]
Lead, South [illegible]

Name and address of applicant

Date [illegible] May 1951

FILL IN THIS BLOCK

Date of application [illegible]

Estimated cost $31,125.00

Mineral or metal Gold, [illegible], Molybdenum

Percentage of Government participation

Location of mine [illegible]
of Custer, South [illegible]

Date of filing MF-100 [illegible]

DMA Docket Number, if available 1533X ~~one~~

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.
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.
    (*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.

*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.

*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.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	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.)
    (*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?

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.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*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.

Individual
(Name of company)

By Harold C. Duncan
(Signature of authorized official)

May 29, 1951 (Date)

Owner
(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

SUPPLEMENTAL TO FORM MT-103

Harold C. Duncan
Application

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Unincorporated.

4. Four years [illegible] feldspar. (Mica, beryl, columbium-tantalum, and lithia [illegible] are by-products of this operation). Two years pegmatite mining as an employee, and two and one half years, and working for the Homestake Mining Company.

5. Owner.

6. None.

7. Not leased.

8. Applicant has not operated this property other than the necessary assessment work. The Black Hills Mica Company leased this property during World War II but this operation was lived on account of the cessation of the federally supported mica buying program. No production figures are available.

9. Ten per cent of [illegible].

THE PROPERTY

10. (a) [illegible] claim that embraces pegmatite dike that runs approximately 300' along lode line of claim.

(b) The claim is situated about 1½ miles south of the Graham Ranch, and about [illegible] mile from the Havens Homestead, and about eight miles south west of Custer. It will be found recorded with the Register of Deeds, Custer, South Dakota in Book 17 of Locations, on page [illegible].

11. Originally called the Victory Lode, now relocated under the name of the Diamond [illegible] Lode.

12. Eight miles from Custer, nearest shipping point. Gravel road maintained in good condition all year round.

13. No water [illegible] property but can be hauled for drinking purposes, and for [illegible] on motors and compressors daily, hauled from about 120 [illegible], using about 25 gallons of gasoline Custer

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

Page Two

THE PROPERTY Cont'd

14. None, except timber.

15. Ore could be hauled to Custer and shipped via Burlington Railroad. No milling facilities available.

16. (a) Open Cut approximately 60' long, 8' wide, and a 12' face. Assessment work done on two different locations.

(b) Nearest property that has operated is the Dakota three miles south. This property has produced some beryl and mica, it was operated for feldspar.

(c) Lincoln Page of the Geological Survey visited the property and stated that he thought that it was a good prospect. No written report was made.

17. Mine not in production.

18. (a) Pegmatite intrusion that is about 60' wide , and that is exposed for a distance of about 400' along lode line. Mineralized zone showing mica and beryl.

(b) No assays or maps have ever been made.

(c) Impossible to estimate with present developement.

19. Can recall no condition or circumstance not already covered.

THE EXPLORATION

20. Beryl, mica, and other minerals of the pegmatites.

21. Shaft 100', drifts 150', and raise 125'. Time required approximately forty 5 day weeks.

22. The geologic basis for the exploration being the fact that the pegmatites are known to carry the above minerals, and that this particular dike has some of these minerals exposed. No maps or other data available, and the time limit does not permit the acquiring of these items.

SUPPLEMENTAL TO FORM MF-103

Harold C. Hunsen
Application

Page Three

THE REQUIREMENTS AND COSTS

23. (a) Two mi[illegible] per day $24.00
One [illegible] per day 8.80
One hoist [illegible] per day 12.00
Labor cost of job $ 11,[illegible].00

(b) One supervisor @ $350.00 per month 4,[illegible].00

(c) None

(d) Tool [illegible] and hoist house [illegible].00

(e) Air Compressor $ 4,000.00
Hoist 2,500.00
Water hoist drill 800.00
3/4 Ton pickup truck 1,750.00 9,0[illegible].00

(f) None

(g) None

(h) Powder, caps, carbide, rails, and pipe, insurance 4,0[illegible]

(i) Power derived from gasoline, 25 gallons per day 1,[illegible]

Total cost of job $ 31,1[illegible].00

24. Job figured at the rate of 50 five day weeks, or approximately one year at which time job is expected to be completed and money expended.

EXECUTIVE SECTION
BUREAU OF BUDGET
JUL 2 - 1951
RECEIVED
UNITED STATES DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

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 1533X

Date received 6-4-51

Participation

Harold C. Duncan
622 Canyon Street
Lead, South Dakota

Name and address of applicant

Date 25 May 1951

FILL IN THIS BLOCK

Date of application 25 May 1951

Estimated cost $31,125.00

Mineral or metal Beryl, Mica, Feldspar

Percentage of Government participation

Location of mine Eight miles southeast of Custer, South Dakota

Date of filing MF-100 None filed

DMA Docket Number, if available ~~None~~ 1533X

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.
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.
    (*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.

*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.

*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.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	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.)
    (*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?

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.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*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.

RECEIVED MAY 31 1951

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.

Individual
(Name of company)

By Harold C. Duncan
(Signature of authorized official)

May 28, 1951
(Date)

Owner
(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

SUPPLEMENTAL TO FORM MF-103

Harold C. Duncan
Application

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Unincorporated.

4. Four years mining feldspar. (Mica, beryl, columbium-tantalum, and lithia ores were by-products of this operation). Two years pegmatite mining as an employee, and two and one half years, and working for the Homestake Mining Company.

5. Owner.

6. None.

7. Not leased.

8. Applicant has not operated this property other than the necessary assessment work. The Black Hills Mica Company leased this property during World War 11 but this operation was lived on account of the cessation of the federally supported mica buying program. No production figures are available.

9. Ten per cent of cost.

THE PROPERTY

10. (a) Twenty acre claim that embraces pegmatite dike that runs approximate 400' along lode line of claim.

(b) The claim is situated about 1½ miles south of the Graham Ranch, and about one mile from the Havens Homestead, and about eight miles south east of Custer. It will be found recorded with the Register of Deeds, Custer, South Dakota in Book 17 of Locations, on page 324.

11. Originally called the Victory Lode, now relocated under the name of the Diamond Dick Lode.

12. Eight miles from Custer, nearest shipping point. Gravel road maintained in good condition all year round.

13. No water close to property but can be hauled for drinking purposes, and for cooling systems on motors and compressors.
About 140 H.P. using about 25 gallons of gasoline daily, hauled from Custer

SUPPLEMENTAL TO FORM MF-103

THE PROPERTY Cont'd

14. None, except timber.

15. Ore could be hauled to Custer and shipped via Burlington Railroad. No milling facilities available.

16. (a) Open Cut approximately 60' long, 8' wide, and a 12' face. Assessment work done on two different locations.

    (b) Nearest property that has operated is the Dakota three miles south. This property has produced some beryl and mica, it was operated for feldspar.

    (c) Lincoln Page of the Geological Survey visited the property and stated that he thought that it was a good prospect. No written report was made.

17. Mine not in production.

18. (a) Pegmatite intrusion that is about 60' wide , and that is exposed far a distance of about 400' along lode line. Mineralized zone showing mica and beryl.

    (b) No assays or maps have ever been made.

    (c) Impossible to estimate with present developement.

19. Can recall no condition or circumstance not already covered.

THE EXPLORATION

20. Beryl, mica, and other minerals of the pegmatites.

21. Shaft 100', drifts 150', and raise 125'. Time required approximately forty 5 day weeks.

22. The geologic basis for the exploration being the fact that the pegmatites are known to carry the above minerals, and that this particular dike has some of these minerals exposed. No maps or other data available, and the time limit does not permit the acquiring of these items.

SUPPLEMENTAL TO FORM MF-103

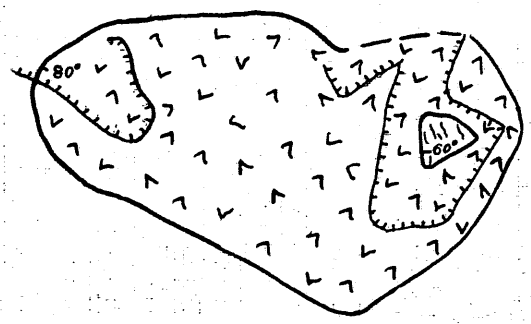
Harold C. Duncan
Application

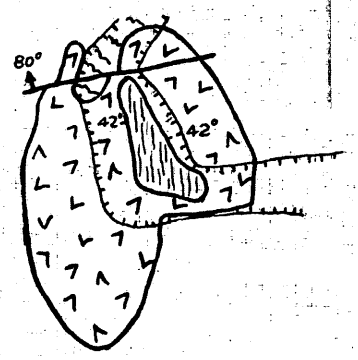
THE REQUIREMENTS AND COSTS

23.	(a)	Two miners per day	$24.00	
		One top man per day	8.80	
		One hoist man per day	12.00	
		Labor cost of job		$ 11,200.00
	(b)	One supervisor @ $350.00 per month		4,200.00
	(c)	None		
	(d)	Tool shed and hoist house		800.00
	(e)	Air Compressor	$ 4,000.00	
		Hoist	2,500.00	
		Water head drill	800.00	
		3/4 Ton pickup truck	1,750.00	9,050.00
	(f)	None		
	(g)	None		
	(h)	Powder, caps, carbide, rails, and pipe, insurance		4,000.00
	(i)	Power derived from gasoline, 25 gallons per day		1,875.00
		Total cost of job		$ 31,125.00

24. Job figured at the rate of 50 five day weeks, or approximately one year at which time job is expected to be completed and money expended.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STABEL
Executive Secretary





Explanation

Pegmatite

Schist

Fault with dip

Open cut

Scale 1" = 40'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
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:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Defense Minerals Administration
Reference Slip

Date 6-7-57

To: 1. Mr. Barr
2. Warby
3.
4.

DMA 1533X

For Action ✓
Reply
Information
Remarks:

Sender Strobel
a. E.S.

3
Mr. Strobel DMA
Forwarded to

Branch
Date
Sender

2
Mr. Strobel DMA
Forwarded to

Branch
Date
Sender

1
Mr. Strobel DMA
Forwarded to

Branch
Date
Sender

92758