DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 13451

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Routing Slip

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 15, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1345X, C. W. Gustafson, Rico, Colorado

Enclosed herewith is the brochure for the above docket which inadvertently was not sent with the final report on August 1, 1951.

for J. H. East, Jr.

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 21 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

OFFICE OF
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224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

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J. H. East, Jr.

Enclosure

ld

cc: DMA
Koschmann

FILE COPY
SURNAME:

RWALKEY:mp 8/8/51
Reports and Records
Mr. Lyon
Mr. Barr
Stanley M Walker-Room 2465
Field Team, Region IV (2)

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

370

Walker
Barr

AUG 14 1951

Mr. C. W. Gustafson
Rico
Colorado

Dear Mr. Gustafson:

Subject: DMA-1345X
Mica, Beryl, Tantalite

Your application for aid for an exploration project on Mica, Beryl and Tantalite deposits located in Grand County, Colorado, and docketed as DMA-1345X, 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.

Property rights covering deposits to be explored must be clearly demonstrated by applicant.

A very careful study of your proposal, including examination by DMA Field Team, revealed the following:

1. Presence of strategic minerals in the deposit has not been demonstrated.

2. Ownership or valid lease covering the deposits has not been shown by applicant.

Under these circumstances, your application for exploration aid to the extent of 90% of $20,000 is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

Unless we receive a request within 30 days, we will consider the case closed.

Sincerely yours,

Tom Lyon

James Barr

Tom Lyon, Director
Supply Division

8/14

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

370

August 8, 1951

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1345X, C. W. Gustafson, Rico, Colorado
Commodities: Mica, Beryl, Tantalite
Grand County, Colorado
Amount of loan: $20,000

Denial recommended because Field Team reports:

1. Presence of strategic mica, beryl or tantalite has not been demonstrated.

2. Applicant has not demonstrated ownership or lease on property.

Attached:

1. Letter from Field Team, Region IV with one copy of Field Report and memo dated July 25, 1951.

2. Form MF-100 in duplicate.

3. Form MF-103 in duplicate.

James A. Barr

James A. Barr, Sr.

Approved:

Tom Lyon

Director, Supply Division

FILE COPY
SURNAME:

Worley
Barr

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

370

August 8, 1951

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1345X, C. W. Gustafson, Rico, Colorado
Commodities: Mica, Beryl, Tantalite
Grand County, Colorado
Amount of loan: $20,000

Denial recommended because Field Team reports:

1. Presence of strategic mica, beryl or tantalite has not been demonstrated.

2. Applicant has not demonstrated ownership or lease on property.

Attached:

1. Letter from Field Team, Region IV with one copy of Field Report and memo dated July 25, 1951.

2. Form MF-100 in duplicate.

3. Form MF-103 in duplicate.

M.P. 8/14

James A. Barr, Sr.

NWASHEY:mp 8/8/51
cc: Reports and Records
Mr. Lyon
Mr. Barr
DMA Field Team, Region IV (2)

Approved:

Tom Lyon

Director, Supply Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF
REGIONAL DIRECTOR

REGION IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 1, 1951

Memorandum

To: Landon Strobel, Executive Secretary
Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1345X, C. W. Gustafson, Rico, Colorado

We are forwarding herewith original and two copies of the report on Docket 1345X, as listed above.

We concur with the examining geologist's recommendation that the application should be denied unless the applicant can establish ownership of the claims.

P. T. Allsman, Alternate

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1951

A. H. Koschmann

Enclosure
One copy by Air Mail
Two copies by Regular Mail

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

200 New Customhouse
Denver 2, Colorado

July 25, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1345X, C. W. Gustafson, Rico, Colorado

Attached are 8 copies of a memorandum report by Truman H. Kuhn, Geologist, U. S. Geological Survey, covering DMA Docket 1345X.

Mr. Kuhn points out that Mr. Gustafson does not have legal possession of the claims covered in his application. Available information also indicates that the pegmatite deposit in question is not of commercial grade. The application should either be denied, or the applicant should be notified that no further consideration will be given this application until he establishes ownership.

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

Attached (8)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1951

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. A. H. Koschmann DATE: July 17, 1951

FROM : Truman H. Kuhn

SUBJECT: DMA Docket 1345X, C. W. Gustafson, Rico, Colorado

Mr. C. W. Gustafson of Rico, Colorado, has applied for a loan of $20,000 to explore for mica and beryl in Strawberry Mining District, Grand County, Colorado, (DMA Docket 1345X).

On July 16, 1951, I attempted to visit the property. Mr. C. L. Harrington, Mineral and Land Surveyor of Idaho Springs, represented Mr. Gustafson and acted as my guide. Mr. Harrington had never been on the property, but he had with him a rough sketch map prepared by Mr. Gustafson. After a full days search in the vicinity of north, middle, and south branches of Strawberry Creek, no evidence of exploration was found and we returned to Idaho Springs.

After talking to Mr. Harrington, it became evident that Mr. Gustafson controlled no mining claims in Strawberry Mining District. Two unpatented claims, Tourmaline and Feldspar, Mica, and Beryl were held by location until 1949 by Mrs. Ethel Clayton and others. The former owners abandoned these claims, and Mr. Harrington was to locate the land for Mr. Gustafson. Since Mr. Harrington could not find the claims, Mr. Gustafson has no legal right to any mining property in the district.

On July 1 and 2, 1948, W. M. Traver, Engineer for the U. S. Bureau of Mines, visited what apparently was one of the claims mentioned by Mr. Gustafson. Mr. Traver referred to the property as the Beaver Mica mine and described it as:

"Pegmatite dike in pre-Cambrian granite and gneiss, containing scrap mica. No beryl or other strategic minerals observed."

Judging from what I saw during our search for the property, the inaccessibility of the deposits, and from Mr. Traver's report, I would judge that Mr. Gustafson's claims, when located, will be of little value for mica and beryl.

/s/ Truman H. Kuhn

FILE COPY
SURNAME:

Barr
Moon
McKnight

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

June 19, 1951

Docket ✓
letter mailed
6/21/51

Mr. O. U. Gustafson

Rico, Colorado

Subject: DMA-13452

Dear Mr. Gustafson:

Your application is being referred to Mr. J. H. East, Jr., 224 New Customhouse Building, Denver 2, Colorado, Executive Officer of the Field Team, Region IV, for further information.

Sincerely yours,

Tom Ryon, Director
Supply Division

RW:dok

cc: Mr. Strobel
Mr. Barr
Administrator's Reading File
Field Team
DMA Files ✓

Rm 3538

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

Mailed 6/21/51

June 12, 1951

Mr. J. H. East, Jr.
224 New Customhouse Bldg.
Denver 2, Colorado

Dear Sir:

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

Docket No. DMA-1345-K

Commodity Mica, Beryl

Applicant Mr. C. V. Gustafson

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

RW-dak
cc - Mr Barr

For Bureau of Mines

For Geological Survey

June 12, 1951

Memorandum:

To: Lowell E. Moon, Coordinating Committee

From: James A. Barr, Chief
Industrial Minerals Branch

Subject: DMA-1345X

File on subject application and recommendation for field team referral are attached.

James A. Barr, Chief
Industrial Minerals Branch

RW:dak

cc: Mr. Strobel
Mr. Barr
Files

June 12, 1951

Memorandum:

To: Stanley M. Walker, Acting Chief
Housing and Utilities Branch

From: James A. Barr, Chief
Industrial Minerals Branch

Subject: DMA-1345X G. W. Gustafson, Rico, Colorado
Mica Beryl $20,000 90%

Subject application includes two miles of road at cost of $2,500. Property situated 11 miles east of Granby, Colorado in Strawberry Mining District, Grand County. No details given as to where road would start and no maps furnished to show exact location of claims.

James A. Barr, Sr.

RW:dak

cc: Mr. Strobel
Mr. Barr
Files

FILE COPY
SURNAME:

Washey
Barr

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

June 12, 1951

Memorandum:

To: Stanley M. Walker, Acting Chief
Housing and Utilities Branch

From: James A. Barr, Chief
Industrial Minerals Branch

Subject: DMA-1345X G. W. Gustafson, Rico, Colorado
Mica Beryl $20,000 90%

Subject application includes two miles of road at cost of $2,500. Property situated 11 miles east of Grandby, Colorado in Strawberry Mining District, Grand County. No details given as to where road would start and no maps furnished to show exact location of claims.

James Barr
MMB

James A. Barr, Sr.

RW:dak

cc: Mr. Strobel
Mr. Barr
Files

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

G-MD-JAR

Redden

June 8, 1951

Memorandum

To: James A. Barr, Sr.

From: J. A. Redden

Subject: Application DMA-1345X from G. W. Gustafson, Rico, Colorado for exploration loan on a pegmatite near Grandby, Colorado.

Application DMA-1345X is to explore two pegmatite claims located 11 miles east of Grandby, Colorado. Beryl, mica and columbite-tantalite are the minerals proposed for exploration.

The Geological Survey has no file data on this property or in the immediate area. The property is not described in the literature.

The applicant describes one claim as pegmatite 15-25 feet thick which contains occasional crystals of beryl, some sheet mica, and an "assumed" content of tantalum. A very little sheet mica was supposedly produced during World War I. The other pegmatite claim contains "brown crystalline tourmaline."

The exploration work would follow after building two miles of road. It would consist of removing overburden and possibly diamond drilling to determine extent of pegmatite as well as amount of beryl and mica. In addition it is proposed to mine and crush 1,000 tons of pegmatite and check the amount of mica and beryl recovered.

From the limited information presented the possibilities of the applicant's exploration are poor. He implies strongly that he has no accessible market for his feldspar. One of his pegmatite claims apparently has no observed mica or beryl and would be a very poor risk, even for prospecting.

He has requested a very large sum of money for exploration and I suspect the expense of adequate exploration would be much smaller.

It is recommended that the applicant first submit records of ownership of the claims.

If the ownership records are in order the limited geologic evidence necessitates a visit by the field team. They should determine:

1. Size of the deposits.

2. Size, grade, and quality of the beryl, mica, and tantalite.

3. Quality of the feldspar and whether or not the applicant has a profitable market for same.

4. Probability of the deposits containing sufficient beryl and mica to warrant the detailed exploration proposed.

J. A. Redden

JARedden:jeh
G-6/8/51

copy to: Director's Reading file 4212
Branch Reading file, 4212
Redden
DMA files

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1345-X

Commodity Mica, Beryl

Total Amount $20,000

Govt. Participation 90%

1. Name and Address of Applicant C. W. Gustafson
Rico, Colorado

2. Location of Property 11 miles East of Granby, Colo.
Strawberry Mining District, Grand County

3. Mineral or metal Mica, Beryl 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) ✓ See Reddon Memo attached
Don't know—needs field examination

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

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

6. If applicant is a lessee, is a copy of the lease attached? Not applicable

Does the lease have sufficient time to run to cover a future productive period? Not applicable

*question numbers are those of MF-103

IBA5-R

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? yes b), c)

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? yes

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? NO 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? Part

       If not, what part of it is? Surface trenching and core drilling

Is this part a worthwhile exploration project? Trenching only

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? Too high

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? Not answered in Application

b) If so, are sufficient data furnished? NO If so, attach a draft.

c) Is a field check needed? Yes

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? insufficient data

d) Is a field check needed? Yes

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

a) Are there sufficient data? NO

b) Is the schedule adequate for the work proposed? insufficient data

c) Is the schedule excessive for the work proposed? ✓ ✓

d) Are the proposed wages and salaries reasonable? ✓ ✓

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Not Applicable

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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? Is strategic Mica present in exposures? Is beryl present in exposures? How much? Cannot sufficient trenching & surface sampling be done with hand tools & no road work to determine needs of additional work?

Reviewed by: [illegible]

Date 7/9/81

97692

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1345-X

Commodity Mica, Beryl

Total Amount $20,000

Govt. Participation 90%

1. Name and Address of Applicant C. W. Gustafson
Rico, Colorado

2. Location of Property 11 miles East of Granby, Colo.
Strawberry Mining District, Grand County

3. Mineral or metal Mica, Beryl 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) ✓ See Reddon Memo attached
Don't know—needs field examination

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

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

6. If applicant is a lessee, is a copy of the lease attached? Not applicable

Does the lease have sufficient time to run to cover a future productive period? Not Applicable

*question numbers are those of MF-103

PAGE-A

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? yes b), c)

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? yes

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? NO 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? Part

       If not, what part of it is? Surface trenching and core drilling

Is this part a worthwhile exploration project? Trending only

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? Too high

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? Not answered in Application

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

c) Is a field check needed? Yes

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? insufficient data

d) Is a field check needed? Yes

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

a) Are there sufficient data? NO

b) Is the schedule adequate for the work proposed? insufficient data

c) Is the schedule excessive for the work proposed? — —

d) Are the proposed wages and salaries reasonable? — —

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Not Applicable

b) Sufficient data?

c) Reasonable?

d) Field check needed?

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? Is strategic mica present in exposures? Is beryl present in exposures? How much? Cannot sufficient trenching & surface sampling be done with hand tools & no road work to determine need of additional work?

Reviewed by: [illegible]

Date 7/21

97692

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

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUN 25 1951
BUREAU OF MINES
DENVER, COLORADO

June 21, 1951

Mr. J. H. East, Jr.
224 New Customhouse Bldg.
Denver 2, Colorado

Dear Sir:

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

Docket No. DMA-1345-X

Commodity Mica, Beryl

Applicant Mr. C. W. Gustafson

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

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA 1345X

Date received 5-29-51

C.W.Gustafson
Rico, Colo.

Name and address of applicant

Date May 25, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by an available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

C. N. Gustafson
(Name of company)

By _____
(Signature of authorized official)

May 25, 1951
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

C.M.Gustafson
Rico, Colo.

1-a Materials expected to produce- Beryl, Mica and Columbite-Tantalite.
(b) Feldspar
2-Pegmatite dyke outcrop. Dyke is 15-25'? wide. On this outcrop is a 10' open cut. Outcrop of ~~Kaukamitum~~ b of Brown crystaline Tourmaline unknown width. Small hole dug on this. These two claims are unpatented and were located in 1937 under the names ~~mex~~ of 1."Feldspar, Mica "Maryland"(2.) "Tourmaline". They were held by location under those names until 1949 by Mrs Ethel Clayton and others. They are now being located by Mr. Chas. L. Harrington as agent for the applicant. There is other open ground available along the dyke.
(a)none.
(b) none.
(c) 10 ft. (open cut)
(d) none.
3-(a)11 miles(approx) almost due east of Grandby, Colo.
(b) Strawberry
(c)
(d) Grand, Colo.
4-(a)not now in operation
(b) Owner
5-Some very little production of mica during World War 1
Estimated date of production- If not by Nov. 1951 then by March 1952
6.(a)Gold Center Mining & Milling Co. 2 years as Secr-Treas. Mill foreman and operator. Chas. L. Harrington -U.S.Mineral Surveyor 10 yrs. off and on as Mine Surveyorand Engineer. ~~Zibx~~ Clear Creek Gilpin Co. Mill operator-1 year. Gold Mines Cons.Inc.- Mine Eng. 3 years. Silver Plume mining Corp.-Secr. Treas.& Gen. Mgr. 1 year. Bonanza Mine Trust- Mgr. 1 year. Rico- Argentine Mining Co.- Mine Supt. 1 year plus.
7 (a) see 2
(b) No adjoining properties to my knowledge.
(c) none.
8. Not a Corp. and no partners to date.
9. No stock issues.
10. No production except see 5.
11. No answer required.
12.2 outcrops . one of pegmatite which carries occasional crystals of Beryl, some sheet muscovite and it is assumed that some Tantalite is contained within the pegmatite. Some small amount of digging has been done on this outcrop. The feldspar has a high aluminum content and low enough in iron to be commercial.

The other outcrop is of brown,crystaline tourmaline. Practically nothing has been done on this. The two outcrops are within a mile of each other.
(b). No ore reserves measured.
13. Claims are located about 11 miles from a main line R.R.Nine miles of farm road and two miles of road will have to be built.Approx. one additional mile of pavement to Granby.
14. Sufficient water supply for drilling from Strawberry Creek.
15. Diesel power for compressor will probably be used amount not known.
16. None.employed.

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 1345-1

Date received 5-29-51

Participation

C.W.Gustafson
Rico, Colo.

Name and address of applicant

Date May 25, 1951

FILL IN THIS BLOCK

Date of application May 25, 1951

Estimated cost $20,000.

Mineral or metal Mica, Beryl, Tantalum

Percentage of Government participation 90%

Location of mine 11 miles east of Granby Colo.

Date of filing MF-100 May 25

DMA Docket Number, if available 1345-1

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. None

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)? Yes

*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.

O. H. Gustafson
(Name of company)

By _____
(Signature of authorized official)

May 25, 1951
(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

MF 103
,28
C.W.Gustafson
Rico, Colo.

10- Both areas the same. Legal description will be sent later.
15. After two miles of bulldzer road was built ore could be trucked to 11 miles to the D&RG RR at Granby and shipped to the nearest buyer. Or hauled by truck.
19. Since these dykes are on open ground and available for ~~filing~~ locating as claims, Mr. Chas. L. Herrington of Idaho Springs Colo. acting as my agent ~~n~~ is ~~fmmm~~ posting the location notices and surveying the claims. Not having heard from Mr. ~~Hm~~ Herrington and since this application must be in before June 1 I am sending this application in filling in what data I know The rest of the data will be sent shortly.

As my 10% of the cost of development I wish to furnish my work as on the job manager and supervisor at my present salary of $525 a month. It may be that I will take in a partner to pay my salary for an interest in the enterprise.

EXPLORATION

20. Beryl, Mica and Tantalite and Feldspar as a by product if a market can be found for it.
21. Build two miles of road, clean off overburden and expose full width of both dykes many places as practical to do so. Possibly do an considerable amount of core drilling to get some ideas to the the extent of the dyke and the amount of Beryl and Muscovite to be expected. Possibly shoot down a thousand tons from each dyke ~~hammm~~ crush it and run it over a picking belt to see how much Muscovite, Beryl and Tantalite could be recovered by hand sorting.
22. It's common knowledge that Beryl, Muscovite and Tantalite occur in pegmatite. Whether or not the project can be put ~~xm~~ over on a paying basisgenerally depends on whether or not one can sell the feldspar at a profit. Maps will come later.

THE RE UIREMENTS AND COSTS

23. Can't answer at this time. I wish to rent a D-7 Bulldozer, suitable surface core drill, capable of drilling EX core 500', 300cuft portable compressor(diesel), and a wagon drill(3½"dia cylinder) These to be rented at appropriate times with ~~n~~ a percentage of rental applying on purchase price.

24. first month-$2,500-Build 2 miles road.
Second month-$5,000-Uncover overburden and start diamond drilling.
Third month- $7,500-Diamond drilling and assemble crusher and picking belt.
Fourth month-$5,000. Diamond drilling,-shooting and hand sorting 2,000 tons.
Completion of project.

C.W.Gustafson
Rico, Colo.

17.none.
18. See MF. 103

Form MF-106
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA 13 45 X

Date received 5-29-51

C. . Gustafson
Rico, Colo.

Name and address of applicant

Date May 25, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(b) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

C. W. Gustafson
(Name of company)

By _____
(Signature of authorized official)

May 25, 1951
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

MF-100

C.W.Gustafson
Rico, Colo.

1-a Materials expected to produce- Beryl, Micaand Columbite-Tantalite.
(b) Feldspar
2-Pegmatite dyke outcrop. Dyke is 15-25'? wide. On this outcrop is a 10' open cut. Outcrop of ~~Tourmaline~~b of Brown crystaline Tourmaline unknown width. Small hole dug on this. These two claims are unpatented and were located in 1937 under the names ~~mix~~ of 1."Feldspar, Mica &Beryland"(2.) "Tourmaline". They were held by location under those names until 1949 by Mrs Ethel Clayton and others. They are now being located by Mr. Chas. L. Harrington as agent for the applicant. There is other open ground available along the dyke.
(a)none.
(b) none.
(c) 10 ft. (open cut)
(d) none.
3-(a)11 miles(approx) almost due east of Grandby, Colo.
(b) Strawberry
(c)
(d) Grand, Colo.
4-(a)not now in operation
(b) Owner
5-Some very little production of mica during World War 1
Estimated date of production- If not by Nov. 1951 then by March 1952
6.(a)Gold Center Mining & Milling Co. 2 years as Secr-Treas. Mill foreman and operator. Chas. L. Harrington -U.S.Mineral Surveyor 10 yrs. off and on as Mine Surveyorand Engineer. ~~Gilpi~~ Clear Creek Gilpin Co. Mill operator-1 year. Gold Mines Cons.Inc.- Mine Eng. 3 years. Silver Plume mining Corp.-Secr. Treas.& Gen. Mgr. 1 year. Bonanza Mine Trust- Mgr. 1 year. Rico- Argentine Mining Co.- Mine Supt. 1 year plus.
7 (a) see 2
(b) No adjoining properties to my knowledge.
(c) none.
8. Not a Corp. and no partners to date.
9. No stock issues.
10. No production except see 5.
11. No answer required.
12.2 outcrops . one of pegmatite which carries occasional crystals of Beryl, some sheet muscovite and it is assumed that some Tantalite is contained within the pegmatite. Some small amount of digging has been done on this outcrop. The feldspar has a high aluminum content and low enough in iron to be commercial.

The other outcrop is of brown,crystaline tourmaline. Practically nothing has been done on this. The two outcrops are within a mile of each other.
(b). No ore reserves measured.
13. Claims are located about 11 miles from a main line R.R.Nine miles of farm road and two miles of road will have to be built.Approx. one additional mile of pavement to Granby.
14. Sufficient water supply for drilling from Strawberry Creek.
15. Diesel power for compresser will probably be used amount not known.
16. None.employed.

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 1345-X

Date received 5-29-51

Participation

C.W.Gustafson
Rico, Colo.

Name and address of applicant

Date May 25, 1951

FILL IN THIS BLOCK

Date of application May 25, 1951

Estimated cost $20,000.

Mineral or metal Mica, Beryl, Tantalum

Percentage of Government participation 90%

Location of mine 11 miles east of Granby Colo.

Date of filing MF-100 May 25

DMA Docket Number, if available 1345X

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. None
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. can't furnish
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)? Yes

*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.

C. H. Gustafson
(Name of company)

By [illegible]
(Signature of authorized official)

May 25, 1951
(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

MF 103
C.W.Gustafson
Rico, Colo.

10- Both areas the same. Legal description will be sent later.
15. After two miles of buldozer road was built ore could be trucked 11 miles to the D&RG RR at Granby and shipped to the nearest buyer. Or hauled by truck.
19. Since these dykes are on open ground and available for locating as claims, Mr. Chas. L. Harrington of Idaho Springs Colo. acting as my agent is posting the location notices and surveying the claims. Not having heard from Mr. Harrington and since this application must be in before June 1 I am sending this application in filling in what data I know The rest of the data will be sent shortly.

As my 10% of the cost of development I wish to furnish my work as on the job manager and supervisor at my present salary of $525 a month. It may be that I will take in a partner to pay my salary for an interest.in the enterprise.

EXPLORATION

20. Beryl, Mica and Tantalite and Feldspar as a by product if a market can be found for it,
21. Build two miles of road, clean off overburden and expose full width of both dykesas many places as practical to do so. Possibly do considerable amount of core drilling to get some ideaas to the the extent of the dyke and the amount of Beryl and Muscovite to be expected. Possibly shoot down a thousand tons from each dyke crush it and run it over a picking belt to see how much Muscovite, Beryl and Tantalite could be recovered by hand sorting.
22. It's common knowledge that Beryl, Muscovite and Tantalite occur in pegmatite. Whether or not the project can be put over on a paying basisgenerally depends on whether or not one can sell the feldspar at a profit. Maps will come later.

THE RE UIREMENTS AND COSTS

23. Can't answer at this time.I wish to rent a D*7 Bulldozer, suitable surface core drill, capable of drilling EX core 500', 300Cuft portable compressor(diesel),and a wagon drill(3½"dia cylinder) These to be rented at appropriate times with a percentage of rental applying on purchase price.

4.first month-$2,500-Build 2 miles road.
Second month-$5,000-Uncover overburden and start diamond drilling.
Third month- $7,500-Diamond drilling and assemble crusher and picking belt.
Fourth month-$5,000. Diamond drilling,-shooting and hand sorting 2,000 tons.
Completion of project.

C. . .Gustafson
Rico, Colo.

17.none.
18. See M.F. 103

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA 13 45-X

Date received 5-29-51

C.W.Gustafson
Rico, Colo.

Name and address of applicant

Date May 25, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

C. H. Gustafson
(Name of company)

By _____
(Signature of authorized official)

May 25, 1951
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
R E C E I V E D
MAY 29 1951
[illegible] F. STROBEL
Executive Secretary

MF-100

G. . .Gustafson
Rico, Colo.

1-a Materials expected to produce- Beryl, Mica and Columbite-Tantalite.
(b) Feldspar
2-Pegmatite dyke outcrop. Dyke is 18-25'? wide. On this outcrop is a 10' open cut. Outcrop of ~~tourmaline~~ of brown crystalline Tourmaline unknown width. Small hole dug on this. These two claims are unpatented and were located in 1937 under the names ~~mix~~ of 1."Feldspar, Mica Beryl and" (2.) "Tourmaline". They were held by location under those names until 1949 by Mrs Ethel Clayton and others. They are now being located by Mr. Chas. L. Herrington as agent for the applicant. There is other open ground available along the dyke.
(a) none.
(b) none.
(c) 10 ft. (open cut)
(d) none.
3-(a) 11 miles (approx) almost due east of Grandby, Colo.
(b) Strawberry
(c)
(d) Grand, Colo.
4-(a) not now in operation
(b) Owner
5- one very little production of mica during World War 1
Estimated date of production- If not by Nov. 1951 then by March 1952
6.(a) Gold Center Mining & Milling Co. 2 years as Supr-Prem. Mill foreman and operator. Chas. L. Herrington -U.S. Mineral Surveyor 10 yrs. off and on as Mine Surveyor and Engineer. ~~Start~~ Clear Creek Gilpin Co. Mill operator-1 year. Gold Mines Cons. Inc.- Inc Eng. 3 years. Silver Plume Mining Corp.- Supr. Prem. & Con. Mgr. 1 year. Sonoma Mine Trust- Mgr. 1 year. Rico- Argentine Mining Co.- Mine Supt. 1 year plus.
7 (a) see 2
(b) No adjoining properties to my knowledge.
(c) none.
8. Not a Corp. and no partners to date.
9. No other issues.
10. No production except see 5.
11. No Smelter required.
12. 2 outcrops . one of pegmatite which carries occasional crystals of Beryl, some sheet muscovite and it is assumed that some Tantalite is contained within the pegmatite. One small amount of digging has been done on this outcrop. The feldspar has a high aluminum content and low enough in iron to be commercial.

The other outcrop is of brown, crystalline tourmaline. Practically nothing has been done on this. The two outcrops are within a mile of each other.
(b). No ore reserves measured.
13. Claims are located about 11 miles from a main line R.R. Nine miles of farm road and two miles of road will have to be built. Approx. one additional mile of pavement to Grandby.
14. Sufficient water supply for drilling from Strawberry Creek.
15. Diesel power for compressor will probably be used amount not known.
16. None employed.

DEPARTMENT OF
Defense
MAY 29 1951
LAWSON F. STROBEL
Executive Secretary

C. . .Gustafson
Rico, Colo.

17.none.
18. See MF103

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 1 3/5

Date received 5-29-51

Participation

C. L. Gustafson
Nico, Colo.

Name and address of applicant

Date May 25, 1951

FILL IN THIS BLOCK

Date of application May 25, 1951

Estimated cost $20,000.

Mineral or metal Mica, Beryl, Columbium

Percentage of Government participation 90%

Location of mine 11 miles east of Granby

Colo.

Date of filing MF-100 May 25

DMA Docket Number, if available

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. None

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)? Yes

*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.

C. W. Gustafson
(Name of company)

By _____
(Signature of authorized official)

Rico, Colo May 25, 1951
(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

MF103
CWGustafson
Rico, Colo

10- Both cross the same. Legal description will be sent later.
15. After two miles of bulldozer road was built ore could be trucked no 11 miles to the DRG RR at Cranby and shipped to the nearest buyer. Or hauled by truck.
19. Since those dykes are on open ground and available for ~~fixing~~ locating as claims, Mr. Chas. L. Harrington of Idaho Springs Colo. acting as my agent m is ~~busy~~ posting the location notices and surveying the claims. Not having heard from Mr. Mr Harrington and since this application must be in before June 1 I am sending this application in filling in what data I know The rest of the data will be sent shortly.

As my 10% of the cost of development I wish to furnish my work as on the job manager and supervisor at my present salary of $325 a month. It may be that I will take in a partner to pay my salary for an interest in the enterprise.

EXPLORATION

20. Beryl, Mica and Tantalite and Feldspar as a by product if a market can be found for it.
21. Build two miles of road, clean off overburden and expose full width of both dykes in many places as practical to do so. Possibly do an considerable amount of core drilling to get some idea as to the the extent of the dyke and the amount of Beryl and Muscovite to be expected. Possibly shoot down a thousand tons from each dyke ~~humans~~ crush it and run it over a picking belt to see how much Muscovite, Beryl and Tantalite could be recovered by hand sorting.
22. It's common knowledge that Beryl, Muscovite and Tantalite occur in pegmatite. Whether or not the project can be put ~~on~~ over on a paying basis generally depends on whether or not one can sell the feldspar at a profit. Maps will come later.

TIME NEEDED UNDERTAKING AND COSTS

23. Can't answer at this time. I wish to rent a D-7 Bulldozer, suitable surface core drill, capable of drilling EX core 500ft, 500cuft portable compressor(diesel), and a wagon drill(single cylinder) These to be rented at appropriate times with a percentage of rental applying on purchase price.

24. First month-$2,500-Build 2 miles road.
Second month-$5,000-Recover overburden and start diamond drilling.
Third month- $7,500-Diamond drilling and assemble crusher and picking belt.
Fourth month-$5,000. Diamond drilling,-shooting and hand sorting 2,000 tons.
Completion of project.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 29 1951
LAWSON F. STROBEL
Executive Secretary

MAY 29 7 12 PM '51

LANDON F. STROBEL

Form MF-100
(March 1951)

U.S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA 1345-X

Date received 5-29-51

C. Gustafson
Nico, Colo.

Name and address of applicant

Date May 25, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____

   xperience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the oject.

   e a statement, as complete as possible, of previous exploration, development, operation, and production of property, easons for suspension of operation.

   iefly the known history and production of adjoining and neighboring properties.

   any available (private) reports that may apply to this application, including results of mine examinations, mended exploration and development, and metallurgical investigations.

16—63792-1

mes and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a rporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

C. H. Gustafson
(Name of company)

By _____
(Signature of authorized official)

May 25, 1951
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Executive Secretary

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 29 1951
JOHN F. STROBEL
Executive Secretary

MP-100

C. . .Gustafson
Rico, Colo.

1-a Materials expected to produce- Beryl, Mica and Columbite-Tantalite.
(b) Feldspar
2-Pegmatite dyke outcrop. Dyke is 15-25'' wide. On this outcrop is a 10' open cut. Outcrop of ~~tourmaline~~ of Brown crystaline Tourmaline unknown width. Small hole dug on this. These two claims are unpatented and were located in 1937 under the names ~~mix~~ of 1. Feldspar, Mica (Maryland" (2.) Tourmaline". They were held by location under those names until 1949 by Mrs Ethel Clayton and others. They are now being located by Mr. Chas. L. Harrington as agent for the applicant. There is other open ground available along the dyke.
(a) none.
(b) none.
(c) 10 ft. (open cut)
(d) none.
3-(a) 11 miles (approx) almost due east of Granby, Colo.
(b) Strawberry
(c)
(d) Grand, Colo.
4-(a) Not now in operation
(b) Owner
5-Some very little production of mica during World War 1
Estimated date of production- If not by Nov. 1951 then by March 1952
6. (a) Gold Center Mining & Milling Co. 2 years as Secr-Treas. Mill foreman and operator. Chas. L. Harrington -U.S. Mineral Surveyor 10 yrs. off and on as Mine Surveyor and Engineer. ~~Mix~~ Clear Creek Gilpin Co. Mill operator-1 year. Gold Mines Cons. Inc.- Mine Eng. 3 years. Silver Plume Mining Corp.-Secr. Treas. & Gen. Mgr. 1 year. Bonanza Mine Trust- Mgr. 1 year. Rico- Argentine Mining Co.- Mine Supt. 1 year plus.
7 (a) see 2
(b) No adjoining properties to my knowledge.
(c) none.
8. Not a Corp. and no partners to date.
9. No stock issues.
10. No production except see 5.
11. No answer required.
12. 2 outcrops . one of pegmatite which carries occasional crystals of Beryl, some sheet muscovite and it is assumed that some Tantalite is contained within the pegmatite. Some small amount of digging has been done on this outcrop. The feldspar has a high aluminum content and low enough in iron to be commercial.

The other outcrop is of brown, crystaline tourmaline. Practically nothing has been done on this. The two outcrops are within a mile of each other.
(b). No ore reserves measured.
13. Claims are located about 11 miles from a main line R.R. Nine miles of farm road and two miles of road will have to be built. Approx. one additional mile of pavement to Granby.
14. Sufficient water supply for drilling from Strawberry Creek.
15. Diesel power for compresser will probably be used amount not known.
16. None employed.

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 134-5-1

Date received 5-29-51

Participation

C.W.Gustafson
Rico, Colo.

Name and address of applicant

Date May 25, 1951

FILL IN THIS BLOCK

Date of application May 25, 1951

Estimated cost $20,000.

Mineral or metal Mica, Beryl, Tantalum

Percentage of Government participation 90%

Location of mine 11 miles east of Granby Colo.

Date of filing MF-100 May 25

DMA Docket Number, if available 134-5-1

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. None
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. can't furnish
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)? Yes

*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.

MAY 29 1951
LARSON F. STROBEL

C. W. Gustafson
(Name of company)

By
(Signature of authorized official)

May 25, 1951
(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

MF 103
C.W.Gustafson
Rico, Colo.

10- Both areas the same. Legal description will be sent later.

15. After two miles of bulldozer road was built ore could be trucked 11 miles to the D&RG RR at Granby and shipped to the nearest buyer. Or hauled by truck.

19. Since these dykes are on open ground and available for locating as claims, Mr. Chas. L. Harrington of Idaho Springs Colo. acting as my agent is posting the location notices and surveying the claims. Not having heard from Mr. Harrington and since this application must be in before June 1, I am sending this application in filling in what data I know The rest of the data will be sent shortly.

As my 10% of the cost of development I wish to furnish my work as on the job manager and supervisor at my present salary of $525 a month. It may be that I will take in a partner to pay my salary for an interest in the enterprise.

EXPLORATION

20. Beryl, Mica and Tantalite and Feldspar as a by product if a market can be found for it,

21. Build two miles of road, clean off overburden and expose full width of both dykes as many places as practical to do so. Possibly do a considerable amount of core drilling to get some idea to the the extent of the dyke and the amount of Beryl and Muscovite to be expected. Possibly shoot down a thousand tons from each dyke crush it and run it over a picking belt to see how much Muscovite, Beryl and Tantalite could be recovered by hand sorting.

22. It's common knowledge that Beryl, Muscovite and Tantalite occur in pegmatite. Whether or not the project can be put over on a paying basis generally depends on whether or not one can sell the feldspar at a profit. Maps will come later.

EQUIPMENT AND COSTS

23. Can't answer at this time. I wish to rent a D*7 Bulldozer, suitable surface core drill, capable of drilling AX core 500', 300cuft portable compressor(diesel), and a wagon drill(5" dia cylinder) These to be rented at appropriate times with a percentage of rental applying on purchase price.

24. first month- $2,500-Build 2 miles road.
second month- $5,000-Uncover overburden and start diamond drilling.
Third month- $7,500-Diamond drilling and assemble crusher and picking belt.
Fourth month- $5,000. Diamond drilling,-shooting and hand sorting 2,000 tons.
Completion of project.

[illegible]

[illegible]
[illegible]

17. [illegible]
18. See MF 103

DEPARTMENT OF [illegible]
Colorado [illegible]
RECEIVED
MAY 29 1951
LANDON F. STROBEL
Executive Secretary