DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1405x

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Cor-Comm ~~Tom Lyon~~	Date	7-24-51
To:	Field Team	Date	7-27
To:	[illegible]	Date	8-2-51
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:	Hosted (3204 G.S.)	Date	12-29-51
To:	Kaiser (3204 G.S.)	Date	12-29-51
To:	Ellis (4070 Int.	Date	1-2-52
To:	Operating Comm.	Date	1-2-52
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Ernest Wm. Ellis, DMEA Commodity Committee Member for uranium. DATE: January 7, 1952

FROM : A.P. Butler, Jr., Geol. Survey Commodity Committee Member for uranium.

SUBJECT: Final Report, DMA Docket 1405-X, A. J. Farnsworth, applicant; Housel Gulch Placer Uranium Prospect, Moffat County, Colorado.

I concur with the recommendations of the examining team in denying an exploration loan of $75,000.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1952

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

IN REPLY REFER TO:

Butler

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

January 7, 1952

Ernest Wm. Ellis, DMEA Commodity Committee
Member for uranium.

A.P. Butler, Jr., Geol. Survey Commodity Committee
Member for uranium.

Final Report, DMA Docket 1405-X, A. J. Farnsworth, applicant;
Housel Gulch Placer Uranium Prospect, Moffat County,
Colorado.

I concur with the recommendations of the examining team in denying an exploration loan of $75,000.

Arthur P. Butler, Jr.

APButler,Jr.:am 1-7-52
Files: DMEA Docket 1984
DMEA Applicant name
TEPCO Reading
ARU Reading

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. E. R. Gordon, DMEA DATE: 12-27-51

FROM : Jo Horton, AEC.

SUBJECT: DMA Docket 1405-X A. J. Farnsworth.

I concur with the conclusions and recommendations of the examining team that the exploration loan be denied.

I concur in the conclusions and recommendation of the examining team that the exploration loan be denied 1/2/52

H. D. Keiser
U.S.G.S.

6/29

JC: Received this p.m.

Apparently the land involved under the attached was examined by AEC representatives.

Hugh

Reply
Hugh

Examined by C. A. Rosen
July 17, 1970 with
respect to uranium
plant sites

OFFICE OF THE ADMINISTRATOR

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

224 New Customhouse
Denver 2, Colorado

November 27, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1405-X, A. J. Farnsworth, applicant; Housel Gulch Placer Uranium Prospect, Moffat County, Colorado

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $75,000 be denied.

The Brochure is enclosed.

J. H. East, Jr.

A. H. Koschmann

Enclosure

DEC 3 8 36 AM '51
DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

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

200 New Customhouse
Denver 2, Colorado

November 23, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1405X, Farnsworth Uranium Deposit, Moffat County, Craig, Colorado

Attached are 10 copies of the field report by Truman H. Kuhn, geologist, U. S. Geological Survey, covering subject docket.

A field investigation by Kuhn found no evidence that uranium occurs on this property, and he therefore recommends that the lease application be denied.

I concur with this recommendation.

Enclosed herewith is the brochure.

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

Enclosures (11)

Geology

FARNSWORTH URANIUM DEPOSIT

MOFFAT COUNTY

CRAIG, COLORADO

DMA DOCKET 1405X

Geology

By Truman H. Kuhn, Geologist
U. S. Geological Survey

TABLE OF CONTENTS

	Page
INTRODUCTION	1
GENERAL GEOLOGY	1
URANIUM	2
CONCLUSIONS AND RECOMMENDATIONS	3
REFERENCE	4

FARNSWORTH URANIUM DEPOSIT
MOFFAT COUNTY, COLORADO

INTRODUCTION

A. J. Farnsworth of Craig, Colorado, has applied for a $75,000 loan (DMA Docket 1405X) to explore for uranium on his placer property located in sections 4 and 9, T. 9 N., R. 92 W., Moffat County, Colorado. This property formerly was known as the Housel gold placer mine.

The property, consisting of the Friend Ship, Pardner, Magpie, Sage Hen, Pal, and Grey Hound Leases, is located at an elevation of approximately 7,000 feet near the headwaters of Housel Gulch. It is about 19 airline miles northwest of Craig, Colorado. The property can be reached by following Moffat County Roads 3 and 5 northwest of Craig to Iron Springs Divide, 24 miles from town. From this point, the road to the placer turns northeast along the old Meeker and Rawlins stage coach road for an additional 1.6 miles where a less improved road branches to the east. The cabin on the Farnsworth property is 0.6 mile from the stage coach road and 26 miles, by road, from Craig.

The property was examined on August 22, 1951, accompanied by A. J. Farnsworth. It was also visited on May 17, 1950, by C. A. Rasor, geologist for the Atomic Energy Commission, Grand Junction, Colorado, accompanied by Mrs. Marie Farnsworth, wife of A. J. Farnsworth.

GENERAL GEOLOGY

The property is located in a relatively flat region near the center of a large exposure of sandstones and conglomerates of the lower Eocene

Wasatch formation. Gold placers have been worked in this area, and, according to H. S. Gale (1908, pp. 84-95) the gold-bearing sands now occur as scattered bars or terraces originally deposited on an old eroded Wasatch land surface. The deposition of the bars and terraces preceeded the cutting of the present stream channels and relatively little concentrations of gold have taken place along the existing creek beds.

URANIUM

All workings and prospect pits and trenches were examined with a Geiger counter, and no significant radioactivity was detected.

In addition to the Geiger survey, one pit on the east side of Housel Gulch, apparently on the Pal Lease, was sampled. Mr. Farnsworth stated that this was the only pit that "had a chance of containing uranium." The assay results are:

Sample No.	Average depth in feet	U %	eU %	Description
-	2	-	-	Recent soil
3	3	0.000	0.003	Sandstone and conglomerate, black and red iron oxides coating some of the grains
2	2	0.001	0.002	Sandstone grains almost completely coated and, in part, cemented by black iron and manganese oxides
1	2	0.001	0.003	Sandstone grains in part coated by red iron oxide

C. A. Rasor, Atomic Energy Commission geologist, in a report dated May 31, 1950, stated that in October 1949, Mrs. Marie Farnsworth submitted two samples to the Atomic Energy Commission at Grand Junction.

These two samples supposedly were taken from previous placer operations on the Farnsworth property near Housel Gulch. One sample was composed of fine-grained black sand, apparently a placer concentrate, and the other was a sample of conglomerate. Mr. Rasor examined the black sand and determined that 20 percent was magnetite and the remaining black grains probably were ilmenite. The rest of the sand was made up of red grains believed to be garnet and yellow grains believed to be monazite. The fine-grained concentrate was assayed by the Atomic Energy Commission (Sample No. 11152) and found to contain 0.87 percent equivalent U_3O_8. The conglomerate (Sample No. 11153) assayed 0.014 percent equivalent U_3O_8. According to Mr. Rasor, the Farnsworths were notified that the equivalent U_3O_8 assay represented a thorium content from the monazite and not a uranium content.

Mr. Rasor visited the property on May 17, 1951, and reported:

"Although a Geiger was carried to every test pit and hole, no radioactivity was recorded above the background count."

CONCLUSIONS AND RECOMMENDATIONS

On the Farnsworth property near Housel Gulch, Moffat County, Colorado, gold-bearing sands and gravels occur as scattered bars or terraces originally deposited on an old eroded Wasatch land surface. These sands have been placered for gold, and in addition to gold, contain magnetite, ilmenite, garnet, and monazite.

Since it has not been demonstrated that any uranium exists on the Farnsworth property, it is recommended that the application for a $75,000 loan to explore for uranium be denied.

REFERENCE

Gale, H. S., 1908, Gold placer deposits near Lay, Routt County (now Moffat County), Colorado: U. S. Geol. Survey Bull. 340, pp. 84-95.

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

200 New Customhouse
Denver 2, Colorado

November 23, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1405K, Farnsworth Uranium Deposit, Moffat County, Craig, Colorado

Attached are 10 copies of the field report by Truman S. Kuhn, geologist, U. S. Geological Survey, covering subject docket.

A field investigation by Kuhn found no evidence that uranium occurs on this property, and he therefore recommends that the loan application be denied.

I concur with this recommendation.

Enclosed herewith is the brochure.

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

Enclosures (11)

Geology

FARNSWORTH URANIUM DEPOSIT

MOFFAT COUNTY

CRAIG, COLORADO

DMA DOCKET 1405X

Geology

By Truman H. Kuhn, Geologist
U. S. Geological Survey

TABLE OF CONTENTS

	Page
INTRODUCTION - - - - - - - - - - - - - - - -	1
GENERAL GEOLOGY - - - - - - - - - - - - - -	1
URANIUM - - - - - - - - - - - - - - - - - -	2
CONCLUSIONS AND RECOMMENDATIONS - - - - - -	3
REFERENCE - - - - - - - - - - - - - - - - -	4

FARNSWORTH URANIUM DEPOSIT
MOFFAT COUNTY, COLORADO

INTRODUCTION

A. J. Farnsworth of Craig, Colorado, has applied for a $75,000 loan (DMA Docket 1405X) to explore for uranium on his placer property located in sections 4 and 9, T. 9 N., R. 92 W., Moffat County, Colorado. This property formerly was known as the Hensel gold placer mine.

The property, consisting of the Friend Ship, Pardner, Magpie, Sage Hen, Pal, and Grey Hound Leases, is located at an elevation of approximately 7,000 feet near the headwaters of Hensel Gulch. It is about 18 airline miles northwest of Craig, Colorado. The property can be reached by following Moffat County Roads 3 and 8 northwest of Craig to Iron Springs Divide, 24 miles from town. From this point, the road to the placer turns northeast along the old Meeker and Rawlins stage coach road for an additional 1.6 miles where a less improved road branches to the east. The cabin on the Farnsworth property is 0.6 mile from the stage coach road and 26 miles, by road, from Craig.

The property was examined on August 22, 1951, accompanied by A. J. Farnsworth. It was also visited on May 17, 1950, by C. A. Hauer, geologist for the Atomic Energy Commission, Grand Junction, Colorado, accompanied by Mrs. Marie Farnsworth, wife of A. J. Farnsworth.

GENERAL GEOLOGY

The property is located in a relatively flat region near the center of a large exposure of sandstones and conglomerates of the lower Eocene

Wasatch formation. Gold placers have been worked in this area, and, according to H. B. Gale (1906, pp. 84-86) the gold-bearing sands now occur as scattered bars or terraces originally deposited on an old eroded Wasatch land surface. The deposition of the bars and terraces preceded the cutting of the present stream channels and relatively little concentrations of gold have taken place along the existing creek beds.

URANIUM

All workings and prospect pits and trenches were examined with a Geiger counter, and no significant radioactivity was detected.

In addition to the Geiger survey, one pit on the east side of Hensel Gulch, apparently on the Pal Lease, was sampled. Mr. Farnsworth stated that this was the only pit that "had a chance of containing uranium." The assay results are:

Sample No.	Average depth in feet	U %	eU %	Description
-	2	-	-	Recent soil
3	3	0.000	0.005	Sandstone and conglomerate, black and red iron oxides coating some of the grains
2	2	0.001	0.002	Sandstone grains almost completely coated and, in part, cemented by black iron and manganese oxides
1	2	0.001	0.005	Sandstone grains in part coated by red iron oxide

C. A. Rasor, Atomic Energy Commission geologist, in a report dated May 31, 1950, stated that in October 1949, Mrs. Marie Farnsworth submitted two samples to the Atomic Energy Commission at Grand Junction.

These two samples supposedly were taken from previous placer operations on the Farnsworth property near Housel Gulch. One sample was composed of fine-grained black sand, apparently a placer concentrate, and the other was a sample of conglomerate. Mr. Rasor examined the black sand and determined that 80 percent was magnetite and the remaining black grains probably were ilmenite. The rest of the sand was made up of red grains believed to be garnet and yellow grains believed to be monazite. The fine-grained concentrate was assayed by the Atomic Energy Commission (Sample No. 11188) and found to contain 0.07 percent equivalent U_3O_8. The conglomerate (Sample No. 11188) assayed 0.014 percent equivalent U_3O_8. According to Mr. Rasor, the Farnsworths were notified that the equivalent U_3O_8 assay represented a thorium content from the monazite and not a uranium content.

Mr. Rasor visited the property on May 17, 1951, and reported:

"Although a Geiger was carried to every test pit and hole, no radioactivity was recorded above the background count."

CONCLUSIONS AND RECOMMENDATIONS

On the Farnsworth property near Housel Gulch, Moffat County, Colorado, gold-bearing sands and gravels occur as scattered bars or terraces originally deposited on an old eroded Wasatch land surface. These sands have been placered for gold, and in addition to gold, contain magnetite, ilmenite, garnet, and monazite.

Since it has not been demonstrated that any uranium exists on the Farnsworth property, it is recommended that the application for a $75,000 loan to explore for uranium be denied.

REFERENCE

Gale, H. S., 1908, Gold placer deposits near Lay, Routt County (now Moffat County), Colorado: U. S. Geol. Survey Bull. 340, pp. 84-88.

FILE COPY
SURNAME:

Bourret

Tom Lyon

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

July 24, 1951

Mr. A. J. Farnsworth
Craig, Colorado

Dear Mr. Farnsworth:

Your application docket DMA-1405x for exploration project in the amount of $75,000, has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field IV, Mr. J. H. East, Jr. 224 New Customhouse Building, Denver 2, Colorado, with the request that the needed information be supplied to us.

Yours very truly,

Tom Lyon, Director
Supply Division

WBourret/mh
cc: Adm. Read. File
Reports and Records
Lyon
Field Team IV
Bourret
Files

FILE COPY
SURNAME:

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

June 28, 1951

Mr. A. J. Farnsworth
Craig
Colorado

Subject: DMA-1405X
Re: Exploration Loan -
Farnsworth Mine

My dear Mr. Farnsworth:

Receipt is acknowledged of your application and attachments of June 22, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1405X and referred to Mr. Weston G. Bourret, Chief, Minor and Rare Metals Branch on June 26, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1405X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel jc
Executive Secretary

L. F. Strobel:jc
cc: Strobel
✓File
Bourret
Lyon

DMA 1405

Craig, Colorado
June 23, 1951

United States Department of the Interior,
Defense Minerals Administration,
Washington, D. C.

Gentlemen: Re: Docket No. 1405x

In regard to my application for aid for an exploration project pursuant to Mineral Order No. 5, under the Defense Production Act of 1950, I have had these mineral leases since 1934, and we have found that this is one of the most productive areas in northwestern Colorado, with large deposits of Uranium showing in all assays.

In your letter, you stated that questions 21, 22 and 23 should be answered in detail. This mining project is known as the Farnsworth Mine. The former name was the Housel Mine. The shipping point would be the County seat of Moffat County, that being Craig, Colorado. The distance of hauling would be thirty miles and would be shipped over the Denver & Rio Grande Railroad. The water source would be natural springs and underground water tunnel - 40,000 gal. per day.

Question No. 14 in regard to housing at the present time; there is a two-room cabin at the location.

The gold that is mined will be shipped directly to the mine at Denver, Colorado - strategic concentrates to a suggested point by the Atomic Energy Commission. This mine was worked previously as a gold placer before a discovery of radio active minerals. Suspension of work was due to World War II. This mine has recently been inspected by a V.L. Board and the A.E.C.

Samples were dated May 5, 1950. Sample No. 11152 - description was fine sand - percentage of Uranium present 0.87. Sample 11153 - Conglomerate - 0.014, percentage of Uranium present U.308 - reference in regard to the analysis GJENY:SKS; Atomic Energy Commission.

In regard to question No. 20, strategic minerals and rare earth ores.

Question No. 21, the test hole drillings - driving of drift and water storage development and other work essential to further discover of project.

Question No. 22 was a report from V.L. Board and A.E.C., and all operations and discoveries. In regard to the cost of this project, I have made a fair estimation of what it would cost to

put this mine in production. I have it leased as follows:

Mine Superintendent	$400.00	per Mo.
2 Operators Mach.	2.00	per Hr.
2 Mill Men	2.00	per Hr.
5 Labor & Muckers	1.25	per Hr.
1 Time Keeper.	200.00	per Mo.
Building Repairs & Structure.	3000.00	
One Quick way Shovel.	9000.00	
One Cleat Tractor Dozier	6000.00	
Power Motors & Pumps.	5000.00	
Pipe Line.	1500.00	
One Truck.	2000.00	
Cost of Melts & Supplies.	2500.00	
Water & Utilities. . n.	5000.00	

Yours very truly,

A. J. Farnsworth

A. J. Farnsworth

AJF:HS
Encls.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LANDON F. STROBEL
Executive Secretary

FILE COPY
SURNAME:

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

June 14, 1951

Mrs. Marie D. Farnsworth
Craig
Colorado

Subject: DMA-1405X
Re: Exploration Loan

My dear Mrs. Farnsworth:

Receipt is acknowledged of your application and attachments of May 24, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1405X and referred to Mr. Weston G.Bourret, Acting Chief, Minor and Rare Metals Branch on June 4, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1405X.

Sincerely yours,

LANDON F. STROBEL
jc

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
✓File
Bourret
Lyon

FILE COPY
SURNAME:

Bourret.

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

June 13, 1951

Mr. A. J. Farnsworth
Craig, Colorado

Dear Mr. Fransworth:

Your application of May 24, 1951 for government assistance in the exploration of strategic mineral deposits has been received by the Minor and Rare Metals Branch, Supply Division.

Though your application is incomplete we have never the less assigned docket number 1405x. I am enclosing herewith five copies of form MF-103 with the request that you complete on seperate type written sheets answers to the various questions asked. Your attention is particularly directed to questions 21 and 22 and 23. Please supply complete maps showing the location of your claims and your proposed development openings. Under question 23, we would like a detailed breakdown on the class of miners, wages, equipment and so forth. I am also enclosing herewith for your help and guidance contract form 200 which I would suggest you read at this time. Should your proposal be approved, the detail exhibits requested are necessary and will become a part of your contract. In reply please refer to docket no. 1405x. In the mean time your application will be held in our files pending receipt of material requested.

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

WBourret/bf
Attachment
cc: Adm. Reading File
Strobel
Field Team IV (2)
Bourret
Files

1405

700

FILE COPY
SURNAME:

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

J.A.

Air Mail

JAN 7 1952

Gordon
Kaufman
Hosted
Keiser
Ellis
Thayer
Hedges

Mr. L. J. Farnsworth
Craig, Colorado

Re: Docket [illegible]-1465X
(Uranium)
Moffat County, Colorado

Dear Mr. Farnsworth:

Your application, [illegible]-1465X, for an exploration project in the area of 75,[illegible] has been carefully reviewed.

We regret to advise that it has been decided to deny your application at this time, basing this decision on the lack of evidence to indicate the geologic probability of making a significant discovery.

Should you later obtain additional evidence that might alter this opinion, we will be glad to consider a new application.

Sincerely yours,

C. O. Mittendorf (fw) cc 1-7-52

C. O. Mittendorf
Acting Administrator
Defense Mineral Exploration
Administration

EGordon/jem 12-28-51
cc to; Adm. Reading File
Mails & Files Br.
Docket
Messrs. Mittendorf
Kaufman, A. J. - Rm. 1345
Hosted, J. A. - Rm. 3204, O.S.
Keiser, H. D. - Rm. 3204 O.S.
Gordon
Field Team, Region IV (2)

The following are Field Reports presented to Operating Committee for study, to be considered at meeting on December 5, 1951:

DMA-1405X Uranium Region IV	A. J. FARNSWORTH, CRAIG, COLORADO. Property located in Moffat County, Colorado. $75,000 requested. Field recommended denial of application.

DMEA Operating Committee Minutes
Meeting No. 5
December 5, 1951

Field Reports

DMA-1405X Uranium Region IV	A. J. FARNSWORTH, CRAIG, COLORADO. Property located in Moffat County, Colorado. $75,000 requested. Field report recommending denial of application. Committee reviewed and referred to Examining Division.

MF-200
(April 1951)

Docket No. DMA _____
Commodity _____

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 22 day of June, 1951, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] A. J. Farnsworth of Craig, Colorado hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Colorado, County of Moffat described as follows: [3] Friend Ship Lease W½ NE¼ Sec 4, T9, R92 West, 6PM. Pardner Lease SE¼ SW¼ of Sec 4, T9 R92W, 6PM, Magpie Lease NE¼, SE¼, SW¼ NW¼ of sec 9, Sage Hen Lease NW¼ NW¼ of Sec 9 T9 R92 W, Pal Lease S½ NW¼ of NW¼ Sec 9 T9 R92W. Grey Hound Lease N½ SW¼, NW¼ Sec 9 T9 Range 92 West 6th P. M. with respect to which the Operator represents and undertakes:

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: None

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within 30 days days from the date of this contract shall commence work on a project of exploration for [5] Uranium or rare earth metals; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] one year from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Attached hereto, marked "Exhibit 'B'," is a detailed list of additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute its agreed pro-rata share of the cost. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

6. *Operating equipment.* Attached hereto, marked "Exhibit 'C'," is a detailed list of operating equipment divided into categories of items to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or rental value, as the case may be, annexed to each. As to equipment purchased for the project, the Government will contribute its agreed pro-rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* Attached hereto, marked "Exhibit 'D'," is an itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project.

9. *Rehabilitation and repairs.* Attached hereto, marked "Exhibit 'E'," is a detailed schedule of existing facilities, buildings, installations, and fixtures, with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition, which cost shall be allowed as a cost of the project.

10. *Allowable costs of the project.* The allowable costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in the contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, or any other indirect costs not expressly allowed by these regulations, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Participation by the Government.* At the end of the first full calendar month after the Operator has commenced work under the project, and at the end of each succeeding calendar month, the Operator shall submit to the Government a voucher for payment with a detailed statement of work done and allowable costs (as defined in Article 10 of this agreement) incurred, in a form and with supporting data acceptable to the Government. After approving the voucher, the Government shall pay to the Operator 90% percent of the sum of such costs incurred: *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $67,500, which is 90% percent of the agreed estimated total cost of this project, $75,000.00.

12. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

13. *Progress reports.* The Operator shall provide the Government with monthly reports of progress in form and content satisfactory to the Government, and upon the completion of the project or termination of the contract shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

14. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent additional for each full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the property which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

15. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

16. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in triplicate the day and year first above written.

THE UNITED STATES OF AMERICA

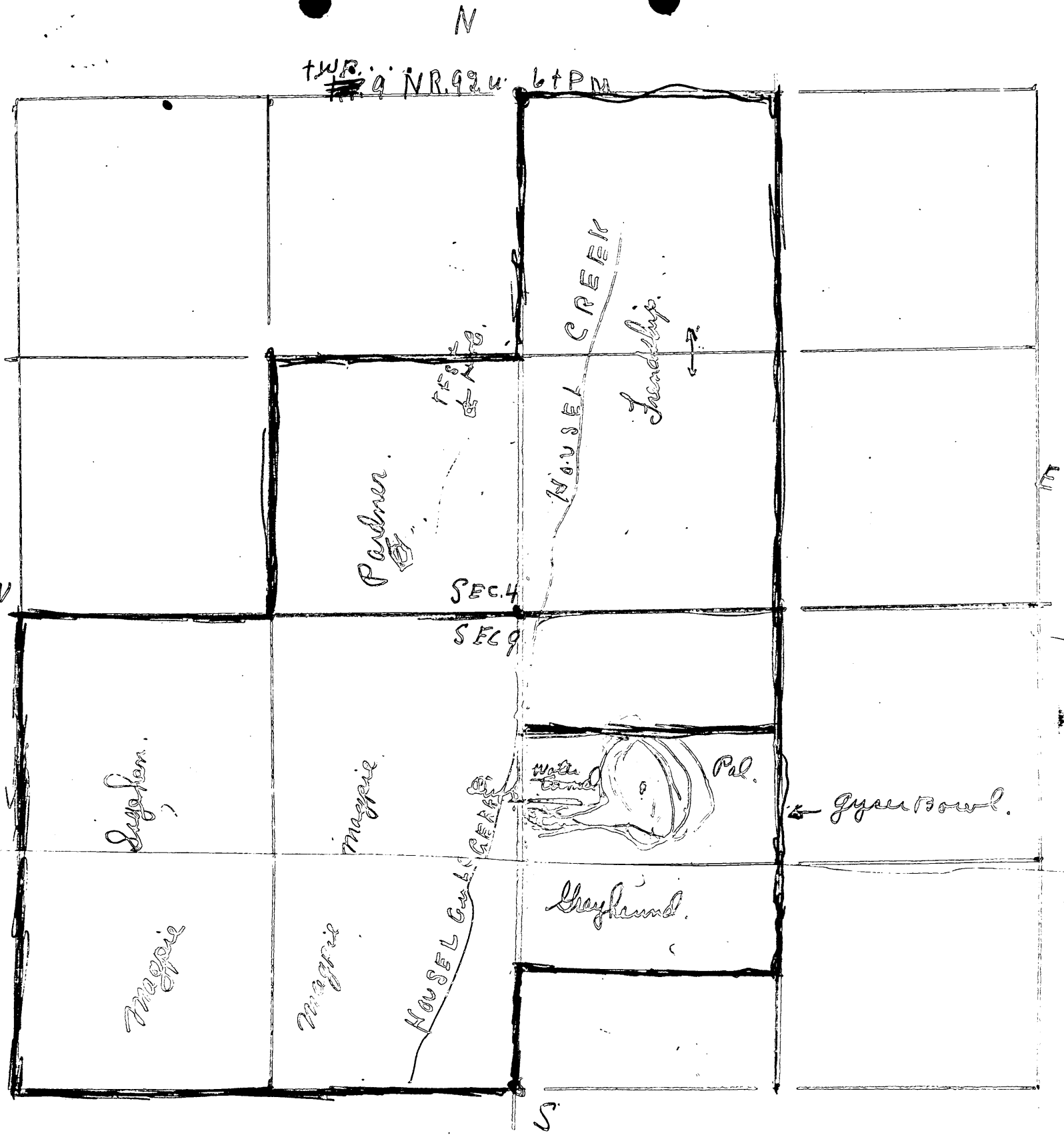
(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-1

dma 1405 X


N
TWP. 9 N R. 92 W. 6th PM
HOUSEL CREEK
Pardner
SEC. 4
SEC 9
Sugfoot
Magpie
Magpie
Magpie
HOUSEL CREEK
Pal.
Greyhound
S

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 1405X

Date received 6-25-51

Participation

A. J. Farnsworth
Craig Colo.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LANDON F. STIDDEL
Executive Secretary

Name and address of applicant

Date June 22, 1951

FILL IN THIS BLOCK

Date of application June 22, 1951

Estimated cost $15,000.00

Mineral or metal Uranium

Percentage of Government participation 90%

Location of mine Sec 4, T 9 R 92 W. Sec. 9
Moffat County Colorado

Date of filing MF-100

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.

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining	300 Tons	$1.50 per Ton	50¢	$1.00
(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.

(Name of company)	By R. J. Farnsworth (Signature of authorized official)
(Date)	Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

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 1405X

Date received 6-25-51

Participation

H. J. Farnsworth
Craig, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LAMSON P. STROBEL
Executive Secretary

Name and address of applicant

Date June 22, 1951

FILL IN THIS BLOCK

Date of application June 22, 1951

Estimated cost $15,000.00

Mineral or metal Uranium

Percentage of Government participation 90%

Location of mine Moffat County, Colorado
Section 4, T 9 R 99W & Sec. 9

Date of filing MF-100

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.

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining	300 TONS.	$1.50 per ton	50¢	$1.00
(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.

(Name of company)	By O. J. Farnsworth (Signature of authorized official)
(Date)	OWNER (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

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 1405 X

Date received 6-25-51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LINDEN F. STROBEL
Executive Secretary

H. J. Farnsworth
Craig Colo

Name and address of applicant

Date June 22, 1951

FILL IN THIS BLOCK

Date of application June 22, 1951

Estimated cost $75000.00

Mineral or metal Uranium

Percentage of Government participation 90%

Location of mine Moffat County Colorado
Section 4, T9 R92W & Sec. 9

Date of filing MF-100

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.

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling	300T.	$1.50	50¢	$1.10c
(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.

(Name of company)	By O. J. Farnsworth (Signature of authorized official)
(Date)	Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

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 1405 X

Date received 6-25-51

Participation

H. J. Farnsworth
Craig Colo.

DEPARTMENT OF THE INT
Defense Minerals Administration
RECEIVED
JUN 25 1951
LAWSON F. STROSEL
Executive Secretary

Name and address of applicant

Date June 22, 1951

FILL IN THIS BLOCK

Date of application June 22, 1951

Estimated cost $75000

Mineral or metal Uranium

Percentage of Government participation 90%

Location of mine Moffat County Colorado.
Section 4, T 9 R 92W & Sec. 9

Date of filing MF-100

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.

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling	300T	$1/50	50¢	$1/00
(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.

(Name of company)	By C. J. Farnsworth. (Signature of authorized official)
(Date)	owner. (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

Form MF-103
(April 1951)

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 1405 X

Date received 6-25-51

Participation

H. J. Farnsworth
Craig, Colo.

Name and address of applicant

Date June 22, 1951

FILL IN THIS BLOCK

Date of application June 22, 1951

Estimated cost $75,000

Mineral or metal Uranium

Percentage of Government participation 90%

Location of mine Moffat County Colorado
Section 4, T 9 R 92 W & Sec. 9

Date of filing MF-100

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? owner.
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling	200T	$1/50	50¢	$1/00
(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.

(Name of company)	By R. J. Lamsworth (Signature of authorized official)
(Date)	Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—84067-1 U. S. GOVERNMENT PRINTING OFFICE

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-1405X

Date received 5/01/51

Participation

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 24th 1951

Estimated cost Aid For Re Equipment Indetermined for working Exploration Struge

Mineral or metal Struge & Gold

Percentage of Government participation

Location of mine Sec 9 Tow S 9 Range 92 W Moffat County Colorado Old Iron Spye Divide 30 Miles North of Craig Colo

Date of filing MF-100

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? Individual Claim by Right of Discovery

*2. If a partnership, state names and addresses of partners. Husband Claims adjoines

*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. Recovery of placer Gold 34 35 36 37 Until war 2 Suspended do to other personal Expenditures

*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. Government Document Recorded

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. Endebt of Personal Nature

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)? previously obligations of Self cover $10.000 Spent 50% contrived. improper working No Modern Equipment. Financially

*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. adjoining claims owned by Husband & Self

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. One Sec 9

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. OD Futh Fall old Hausel placer Mine 1908 1902

*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. good

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

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

15. State in detail how the ore could be shipped and how and where milled. clean up on premisis concentrates

*16. History: Shiped to Mill or Smelter Gold Retort to Mint Denver.

(*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. 200 Ft Water Storage tunnel pay streaks

(*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. U.S. Board map production field agent 1949

*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	Sample Numb	conglomerated	Equivalent	% U3O8
(2) Milling	11153		0.014	
(3) Shipped or sold	11152	Fine Sand	0.87 by New York Raw Materials Radio Active.	

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

(*a*) Describe the ore or mineral deposits briefly. Referee GJENY: SKS AEC. Grand Junction Colo

(*b*) Submit available maps and assay data. MAY 5th 1950

(*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? Strategic and Gold placer.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. 2 years

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. Sem Pumps pipe line Hydrolic

(*f*) Cost of rental for equipment which the operator proposes to rent. Dirt Machine 800 per Hour

(*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. quick way Shovel

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

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. as of Nessecity to Reopen For Recovery of Material

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.

Unincorporated Claim Holder Marie Farnsworth (Name of company) By _____ (Signature of authorized official)

_____ (Date) _____ (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

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-1405X

Date received 5/01/51

Participation

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application

Estimated cost

Mineral or metal

Percentage of Government participation

Location of mine

Date of filing MF-100

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.

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

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

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

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

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

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

*17. Production:

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

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

CERTIFICATION

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

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

U. S. Atomic Energy Commission
Grand Junction Extension, New York Office

October 20, 1948

MANUFACTURERS AND DISTRIBUTORS OF PORTABLE GEIGER COUNTERS

Name and Address of Company	Instruments Available Model No. & List Price - SEE NOTE BELOW*	
Geophysical Instrument Company 1820 North Nash Street Arlington, Virginia	5-A . . . . . . 5-B 5-C	$150.00 175.00 195.00
Nuclear Instrument and Chemical Corp. (Instrument Development Laboratories) 223-233 West Erie Chicago 10, Illinois	Count Rate Meter 2610	$275.00
Herbach & Rademan, Inc. 522 Market Street Philadelphia 6, Pennsylvania	(El-tronics) RS 3 . . . . . . (Also distributors for Omaha Scientific Supply Corp., see below)	$245.00
Kelly-Koett Manufacturing Company 212 West 4th Street Covington, Kentucky	Keleket K-800 . (Price not available as of above date)	
National Technical Laboratories 820 South Mission Street South Pasadena, California	MX-5 . . . . . (Price not available as of above date)	
Omaha Scientific Supply Corporation 3623 Lake Street Omaha 4, Nebraska Denver Distributor: Revilo Sales Co. 316 Mack Building Denver 2, Colorado Philadelphia Distributor: Herbach & Rademan, Inc. (see above)	TX-6 . . . . . . TX-5 . . . . . . TX-7	$100.00 145.00 200.00
Radiation Counter Laboratories 1844 West 21st Street Chicago 8, Illinois	Atomic Blinker . . . . . . Mark 11, Model 20	$128.50 250.00
Victoreen Instrument Company 3800 Perkins Avenue Cleveland, Ohio	263-A	$500.00
Technical Associates 3730 San Fernando Road Glendale 4, California	F-3 . . . . . . F-4	$250.00 125.00

*NOTE: Prices given are the latest available from manufacturers' catalogues. For full description of instruments, and for details of equipment included in the price, consult the catalogues. The Atomic Energy Commission assumes no responsibility for change in prices.

High Altitude Observatory
Climax, Colorado
12 May 1947

Miss Marie Dickey Farnsworth
654 Mariposa Street
Denver, Colorado

Dear Miss Farnsworth:

I regret to advise that I do not have any literature dealing with atomic research available for distribution here. The location of resources of uranium useful for atomic purposes is best done by geophysical methods, using detectors made up of radio tube circuits which amplify the small pulses of electricity sent through "Geiger counters" by the radioactive rocks which are the usual components of atomic energy raw materials.

The operation of these counters is somewhat intricate, unless you have available a trained man, or somebody who is handy with radio circuits.

I know relatively little about the types of rock or mineral found in association with uranium bearing ores. I should imagine that information would be available from standard textbooks on geology, inasmuch as uranium was, to some extent, mined before the war, as was thorium which is also a useful atomic raw material.

Very truly yours,

Walter Orr Roberts

Walter Orr Roberts

Colorado Leads In Power Supply

By ROSCOE FLEMING.

UNDER Colorado's soil is the nation's richest bank of unspent energy reserves. More than one-fifth of all the fuel resources upon which the United States must depend for safety and for an ever-expanding national economy sleep beneath these hills. Government experts have put together for the first time under one cover, all that is presently known about the nation's energy sources. The task was done at direction of the senate committee on insular and interior affairs, headed by Senator J. G. O'Mahoney of Wyoming.

Fleming.

It is an inspiring story of gigantic national strength, present and potential. Here are some facets:

The U. S. has 40 per cent of the proved world reserves of coal, one-third of its proved petroleum reserves.

The Rocky Mountain Empire has more than one-half the nation's coal reserves; North Dakota's huge lignite deposits make that state the nation's foremost coal bank; Colorado, with the nation's largest store of bituminous, is second.

In addition, Colorado's oil shale alone makes up more than 10 per cent of the nation's unspent store of fuel energy.

Coal Reserves

HERE'S how the nations rank in known reserves [illegible] the principal fuel of [illegible] about 40 per [illegible]erica about [illegible] cent—the [illegible] per cent, [illegible]ndia 1.1, [illegible] per cent, [illegible] Austral- [illegible]th Amer- [illegible]ch more [illegible] States

uisite without which there can be no industrial revolution, no prolonged national defense if it comes to war. And nature stored most of our energy-fuels along the spine of the continent, well protected from attack.

•

WHEN such fuels are used up, "that's all there is, there isn't any more." But the nation's streams will keep on providing energy forever.

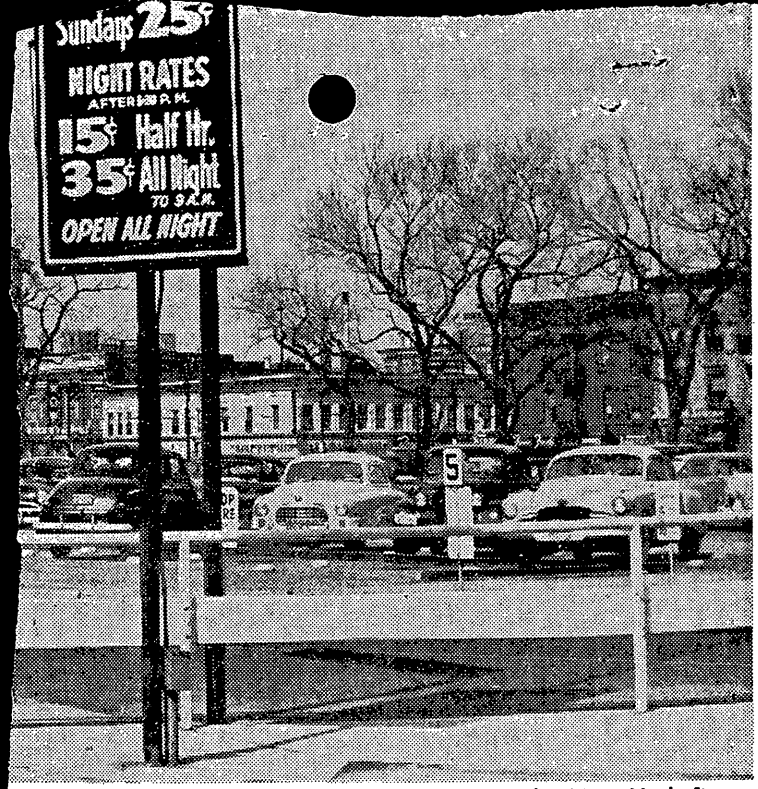
The report estimates the nation's undeveloped water-power at 77 million kilowatts—more than 100 million horsepower.

Again the mountain states rate high. Their total undeveloped hydro potential is more than 17 million kilowatts, or almost one-fourth of the national total. But the Pacific states, particularly in the northwest, are the real national powerhouses, with some 30 million kilowatts, or nearly one-half the national total.

The estimates of the reserves of oil shale, our chief energy-resource next to coal, just keep on growing. The original estimate of 1928, was that there were 75 billion barrels of recoverable fuel locked up in the shales. Now this report estimates all fuel in the shales at 1,000 billion barrels and estimates that half of this, or 500 billion barrels, is ultimately recoverable.

Senator O'Mahoney's staff points out, also, that we may yet learn how to use wind-power and sun-power directly and learn to make oil and gas fuel from plants. This would further delay the exhaustion of our major fuels.

But they conclude that such things are speculative, along with the amount of uranium and other raw materials for atomic power, where the facts are hidden by military secrecy.



ransferred the courthouse square property to the New York firm napp, owned by William Zeckendorf. Litigation delayed final tle until October, 1949. Meanwhile Denverites were told that lans envisioned a multi-million-dollar building which would in- rn hotel. Zeckendorf announced he did "not intend to waste a r, the Boettcher interests of Denver became associated with Zeck- Courthouse Square corporation, to which the courthouse square transferred. Last July, the Parkrite Denver company, Ltd., was ear lease at an annual rental reported to be $95,000 to operate on the square. This year, the owners of the property have paid rfeit to the city "for the privilege of delaying construction." contract, they can continue to do that indefinitely.

Triumph?

more the guerrillas are acknowledging his leadership.

•

HERE on Formosa, a chastened Kuomintang has dropped some of its more objectionable personalities. It has, to some extent, purged and reorganized itself. It has tracked down corruption and sought for more enlightened and efficient administration. It has given full cooperation to the Americans working in the joint committee for rural reconstruction and ECA.

The secret police, though still active, has been cut down minimum compatible

THAT'S THAT

Says **Bruce Gustin**

THE Mexican labor bill passed by the senate after prolonged debate pigeonholed by t committee. A ington dispa