DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3511

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This document has been recorded as

Exploration Assistance

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.

Cys to USBM, USGS, & Reg.

Routing Slip

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CONTROLLED DOCUMENT

Surname copy

Ellis
Adams

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

AUG - 3 1955

Mr. George V. Helms, President
United States Thorium, Inc.
11250 East Rush Street
El Monte, California

Re: Closed Docket No. DMEA-3511
(Thorium-Rare Earths-Uranium)
Thor Group of claims
The Rock Corral Area
San Bernardino County, Calif.

Dear Mr. Helms:

This will acknowledge receipt of your undated letter received here on July 29, 1955. Your letter, appertaining to the captioned claims, refers to our previous correspondence. Our last letter, dated April 7, 1955, informed you that the subject docket was considered closed without prejudice to the merits of your proposed project.

In your recent letter you state that you have been endeavoring to obtain the information requested in Mr. Ellis' letter of October 18, 1954. You also request a review of your application and reinstatement thereof. Accordingly, we have again examined the entire docket and, while we cannot reinstate the old application, we will be glad to accept a new application which will receive a new docket number.

Should you decide to present a new request for aid in an exploration project, let me urge that the application be complete in all respects. I am sure you will see the need and desirability of this suggestion. We are enclosing forms for your use.

Sincerely yours,
C. O. Mittendorf
Administrator

EWEllis:ai
8/2/55
cc to: Admr. Reading File
Docket
Messrs. Frank D. Lamb, Rm 3649
T. H. Kiilsgaard, Rm.5224
J. O. Hosted, Rm. 3210, GSA
DMEA Field Team, Region II (2)
Code 700

R.C.G.

7/29/55 gla

UNITED STATES THORIUM, INC.

NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT

~~724 WILSHIRE STREET · TELEPHONE TRINITY 6521~~

~~LOS ANGELES 14, CALIFORNIA~~

11250 East Rush Street
EL MONTE, California.

RECEIVED
JUL 29 1955

Mr.C.O.Mithendorf, Administrator
Defense Minerals Exploration Administration
United States Department Of The Interior
Washington 25, D.C.

Re; Docket No.DMEA -3511
Application filed 9/28/54.

Dear Mr. Mithendorf:

Further reference is made to your letters of Oct.18,1954, March 4, 1955, and April 7,1955, in connection with the above mentioned application, filed by this company.

With complete deference for the expressed authority of your office in the handling of this subject, we have remained tacit,for the reason that we realize our disadvantage in attempting to present the full and proper merits of our subject application in documentary form.

However upon further consideration we would respectfully request that our original application dated September 28, 1954, be again reviewed in relation to matters contained with the letter of Mr.Ellis, dated October 18,1954.

We believe our Application to be in specific conformity with all terms of instruction given with The Order; We did not include map showing section corners in relation to claims, for the reason that we were,and are, unable to find them, if they in fact exist?, We have been endeavoring to obtain comprehensive survey for this area and we will furnish Mr. Ellis with the detail he requests at the earliest possible moment.

In the meantime, we have been placed in the position of having to survey a lot of adjacent unsurveyed land,at considerable expense,other than a relative loan expenditure,in order to complete the purported necessary information requested by Mr.Ellis; From whose standpoint we fully appreciate the difficulty to be encountered with the administration of this type of Order, since it is signally one of financial assistance, and thereby obviously attracts two types of Applicants, we do not feel that we are one of the undesirables. We further realize that the nature of the quest for assistance involves the treatment of a highly classified subject; However, if we are to assume that the basic intent of this Order still prevails, then we must also presume that it carries with it no intent to render it's processes so classified and restricted as to be inoperable and impenetrable to application,for it's purported benefits.

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
~~XXXWILSONXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
~~LOS ANGELES 21 CALIFORNIA~~
11250 East Rush Street
EL MONTE, CALIF.

Mr.C.O.Mithendorf -- (2)

Since date of our Application under DMEA -1 , we have done considerable work in connection with development of THOR property claims#1 thru 25,; These claims embrace the entire area contained as figures 2 and 3 of maps with TEI -Report 380, except,that area north of Flight line 3.(approx.)
This subsequent work refered to,has been accomplished by us as proposed under Appendix #2 Item 5-(b) of our Application, chiefly as core drilling which is still in progress on location.
Indications are for great volume of low grade,uniform and consistent, thorium in monazite and allanite, representing complex extraction and beneficiation processes which we feel could be best accomplished by Battelle Institute of Columbus,Ohio, who seem confident of the results or their ability to obtain them satisfactorily.
Our prime purpose is explore depth for more negotiable ore and at the same time develop the processes to recover eligible minerals from the low grade economically.

We believe that we have manifestly fulfilled the scope, and remained within the limitations of all general and specific Application instructions; We will be very glad to co-operate with DMEA to develop any necessary supplemental information to assist in the review and process of our Application, and respectfully request that you may see fit to review and re-docket this matter at the earliest date possible.

Very Sincerely yours,

GVH/m

Geo.V.Helms, Pres.
UNITED STATES THORIUM INC.

Surname 700

Ellis

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

APR - 7 1955

Mr. George V. Helms, President
United States Thorium, Inc.
724 Wilson Street
Los Angeles 21, California

Re: Docket No. DMEA-3511
(Thorium-Rare Earths-Uranium)
Thor Group of claims
The Rock Corral Area
San Bernardino County, Calif.

Dear Mr. Helms:

Reference is made to our letter dated March 4, 1955, in which we stated that the subject docket would be considered closed unless certain information required to process the captioned application had reached this office on or before April 3, 1955. No answer to our letter having been received, we therefore inform you that the subject docket is considered closed effective as of that date.

This is without prejudice to the merits of your proposed project. We regret the necessity of this action and express appreciation for your interest in the exploration program during the period your application has been under consideration.

Sincerely yours,

C. O. Mittendorf

Administrator

EWEllis:am
4-6-55
cc to: Admr. Reading File
Docket
Messrs. Frank D. Lamb, Rm. 3649
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
DMEA Field Team, Region II(2)
Code 700

R.C.G.

700

Surname copy

Ellis
Mutterdoy

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

MAR 4 - 1955

Mr. George V. Helms, President
United States Thorium, Inc.
724 Wilson Street
Los Angeles 21, California

Re: Docket No. DMEA-3511
(Thorium-Rare Earths-Uranium)
Thor Group of claims
The Rock Corral Area
San Bernardino County, Calif.

Dear Mr. Helms:

A review of your application of September 28, 1954, for an exploration contract in the amount of $40,000.00 reveals that on November 8, 1954, you responded to our request of October 18, 1954, which outlined additional information required to process your application. You advised that you were endeavoring to obtain such information.

Inasmuch as we have received no further communication from you, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by April 3, 1955, we will then consider the docket closed.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

EWEllis/gla
~~10~~-~~15~~-3-4-55
cc to: Admr. Reading File
Docket
Messrs. Frank D. Lamb, Rm. 3649
T. H. Kiilsgaard, Rm. 5227
J. O. Hosted, Rm. 3210, GSA
DMEA FT, Region II (2)
Code 700

R.C.S.

11/15/54 gla

UNITED STATES THORIUM, INC.

NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 15 1954

November 8 1954.

United States
Department Of The Interior
Defense Minerals Exploration Administration
Washington 25 D.C.

Re: Docket No.DMEA 3511
Thor Claims
Rock Corral Area
San Bernardino
County,California.

Gentlemen: Attention Mr.Ernest Wm.Ellis,Chief
Rare and Miscellaneous Metals Division.

This to acknowledge receipt of your letter dated October 18, 1954, seeking additional information in connection with the above designated Application.

We are endeavoring to secure all such information requested by you, that it may be presented for your approval at one time.

Very truly yours,
UNITED STATES THORIUM INC.

Geo.V.Helms, President.

Surname copy

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

Ellis
Matthews

OCT 18 1954

Mr. George V. Helms, President
United States Thorium, Inc.
724 Wilson Street
Los Angeles 21, California

Re: Docket No. DMEA-3511
(Thorium-Rare Earths-Uranium)
Thor Group of claims
The Rock Corral Area
San Bernardino County, Calif.

Dear Mr. Helms:

We have been endeavoring to process your application for an exploration project at the captioned property. However, we find the data supplied in the application too meager upon which to pass judgment.

It is assumed from the application that your Company owns the Thor claims; however, their location with respect to the section corners is not shown. It will be necessary for you to submit a map or sketch (in quadruplicate) showing the location of these claims. On such a map should be shown any surface cuts or workings, the places where samples were taken, and the assay results of such sampling, supported by assay certificates. If you have made a radiometric survey of the claims, the results of such a survey should be stated and the locations where the readings were made shown on the map.

Your reply to instruction 5(b) of the application is too general for our purpose. The type and amount of the work you propose to do should be fully stated and the location of such proposed work shown on the map mentioned above.

The reference to the Geological Survey Trace Elements Investigation Report, TEI-380, is noted. However, it is insufficient evidence with which we may appraise the possibilities of your property. As a matter of fact, based solely on that report, it is doubtful whether your property would qualify for an exploration contract.

When we have received the above information including more positive evidence that good mineralization does exist on your property we will be better able to judge the potentialities of the proposed project.

EWEllis/gla
10-15-54

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare & Miscellaneous Metals Division

cc to: Admr. Reading File
Docket
Messrs. Frank D. Lamb, Rm.3649
T. H. Kiilsgaard, Rm.5227
J. O. Hosted, Rm.3210, GSA

DMEA FT, Reg.III(4)
Code 700

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

October 14, 1954

Memorandum

To: Ernest Wm. Ellis, Rare and Misc. Metals Division, DMEA

From: Frank D. Lamb, Commodity-Industry Analyst,
Rare and Precious Metals Branch

Subject: Docket No. DMEA-3511, application of United States Thorium, Inc. for exploration project for thorium, rare earths and uranium in San Bernardino County, California

I have reviewed the subject application and recommend that it be denied because of insufficient evidence of the existance of thorium, rare earths, or uranium in anything approaching commercial quantities.

The application is based entirely upon the information contained in USGS report TEI-380 which indicates only very low concentrations of radioactive minerals in a large area in San Bernardino County, California. Under item 4-(a) the applicant lists "pits or cuts 10 feet deep as proof of discovery work accomplished". If samples taken from these pits were analyzed no mention is made of the results in the application.

Unless additional favorable information can be furnished by the applicant there seems to be no reason to approve the application.

Frank D. Lamb

Frank D. Lamb

Attachment

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

October 14, 1954

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To: Ernest Wm. Ellis, Rare and Misc. Metals Division, DMEA

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Frank D. Lamb

Attachment

10/13/54 gla

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
OCT 12 1954

October 11, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3511 (Thorium, rare earths, uranium)

To: E. W. Ellis, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
Applicant's name and address: United States Thorium Inc., 724 Wilson Street, Los Angeles 21, California
Name of property: Thor group
Location of property: San Bernardino County, California
Summary of applicant's proposal:
Bulldozing roads, core drilling, pit and drift work.
Sources of information on applicant's property:
Moxham, R. M., Walker, G. W., and Baumgardner, L. H., An investigation of airborne radioactivity anomalies in the Rock Corral area, San Bernardino County, Calif., USGS TEI-380 (unpublished report), March 1954.

Comments:

As the applicant bases his project entirely upon TEI-380, pertinent parts of that report are quoted below: "Thorium-bearing minerals occur in relatively small, highly radioactive biotite-rich inclusions in a porphyritic quartz monzonite. Radioactive accessory minerals are also disseminated in the porphyritic quartz monzonite and in detritus derived from the porphyritic quartz monzonite. The configuration and amplitude of the major radioactivity anomalies indicate that they have resulted chiefly from the large masses of porphyritic quartz monzonite rather than the biotite-rich inclusions. . . . Radioactive materials in the Rock Corral area are confined chiefly to: 1) Quartz monzonite intrusive masses, containing as much as 0.009 percent equivalent uranium; the radioactivity is attributed to disseminated thorium-bearing accessory minerals, chiefly allanite and zircon. 2) Biotite-rich inclusions in the quartz monzonite, usually less than a hundred square feet in extent, containing as much as 0.03 percent equivalent. The radioactivity is due chiefly to allanite. 3) Alluvium composed largely of quartz monzonite detritus."

If these data are true, (and the applicant gives no other data) the Rock Corral area does not seem to contain economic deposits of radioactive material.

Incidentally, the location of the claims are not given, the project is extremely vague and generalized, and some of the cost figures seem high.

RECOMMENDATION: Unless applicant can furnish new information which is not given in TEI-380, I recommend denial.

C. L. Newcomb
for R. D. Trace

IN REPLY REFER TO:

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

Release Limited
OCT 12 1954

October 11, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3511 (Thorium, rare earths, uranium)

To: R. W. Ellis, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
Applicant's name and address: United States Thorium Inc., 784 Wilson Street, Los Angeles 21, California
Name of property: Thor group
Location of property: San Bernardino County, California
Summary of applicant's proposal:
Bulldozing roads, core drilling, pit and drift work.
Sources of information on applicant's property:
Meuhaus, R. M., Walker, G. W., and Baumgardner, L. R., An investigation of airborne radioactivity anomalies in the Rock Corral area, San Bernardino County, Calif., USGS TEI-380 (unpublished report), March 1954.

Comments:

As the applicant bases his project entirely upon TEI-380, pertinent parts of that report are quoted below: "Thorium-bearing minerals occur in relatively small, highly radioactive biotite-rich inclusions in a porphyritic quartz monzonite. Radioactive accessory minerals are also disseminated in the porphyritic quartz monzonite and in detritus derived from the porphyritic quartz monzonite. The configuration and amplitude of the major radioactivity anomalies indicate that they have resulted chiefly from the large masses of porphyritic quartz monzonite rather than the biotite-rich inclusions. . . . Radioactive materials in the Rock Corral area are confined chiefly to: 1) Quartz monzonite intrusive masses, containing as much as 0.009 percent equivalent uranium; the radioactivity is attributed to disseminated thorium-bearing accessory minerals, chiefly allanite and zircon. 2) Biotite-rich inclusions in the quartz monzonite, usually less than a hundred square feet in extent, containing as much as 0.03 percent equivalent. The radioactivity is due chiefly to allanite. 3) Alluvium composed largely of quartz monzonite detritus."

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RECOMMENDATION: Unless applicant can furnish new information which is not given in TEI-380, I recommend denial.

R. D. Trace

RDTrace:hlm
G-10/11/54

Copy to: Director's reading, 4212
Branch reading, 4212
BMEA (3)
Docket file
H. D. Keiser, Room 3647

IN REPLY REFER TO:

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

Defense Minerals Adm.
RECEIVED
OCT 12 1954

October 11, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3511 (Thorium, rare earths, uranium)

To: E. W. Ellis, Defense Minerals Exploration Administration
From: R. D. Krauss, U. S. Geological Survey
Applicant's name and address: United States Thorium Inc., 734 Wilson Street, Los Angeles 21, California
Name of property: Thor group
Location of property: San Bernardino County, California
Summary of applicant's proposal:
Bulldozing roads, core drilling, pit and drift work.
Sources of information on applicant's property:
Meuhan, R. M., Walker, G. W., and Baumgardner, L. H., An investigation of airborne radioactivity anomalies in the Rock Corral area, San Bernardino County, Calif., USGS TEI-380 (unpublished report), March 1954.

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R. D. Trace

RDTrace:hlm
G-10/11/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
N. D. Keiser, Room 3647

IN REPLY REFER TO:

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

OCT 12 1954

October 11, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3511 (Thorium, rare earths, uranium)

To: E. W. Ellis, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
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Name of property: Thor group
Location of property: San Bernardino County, California
Summary of applicant's proposal:
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Sources of information on applicant's property:
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RECOMMENDATION: Unless applicant can furnish new information which is not given in TEI-380, I recommend denial.

R. D. Trace

RDTrace:hlm
G-10/11/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. D. Keiser, Room 3647

October 4, 1954

United States Thorium Inc.
724 Wilson Street
Los Angeles 21, Calif.

Subject: DMEA-3511
Re: Exploration Assistance
THOR group claims

Gentlemen:

The receipt of your application dated September 28, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3511 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 1 1954

September 28 1954.

The Defense Minerals Exploration
Administratiom,
Department Of The Interior
Washington 25,D.C.

Gemtlemen:

The attached application for government aid in financing the cost of our "THOR" exploration project in The Rock Corral area San Bernardino County California is herewith respectfully submitted.

In accordance with the purpose and provisions of DMEA Order-1 under the Defense Production Act of 1950, as amended, We wish to point out that certain limited general geological, geophysical, and geochemical information has already been developed in connection with the property included in our exploratiom project; This informatiom as contained with USGS report TEI-380 together with our own preliminary discovery work, examinations, and assays, strangly indicates the necessity for exploration within the meaning of The Act, and further warrants prompt processing of this applicatiom to activate this work as an immediate essential.

We therefore respectfully submit the said application in it's entirety, in the form and manner prescribed(MF -103) with sequential appendages as noted.

The total cost of the exploration project is contemplated at this time to be the amount of $40,000.00, to be disbursed as estimated in the accompanying data; except,it is requested in instances of any over-estimated items,that they may accrue as differential credits, to be reflected in like amounts for allowable increases in cases of under-estimated items, if any.
The amount of $10,000.00 in cash, representing 25 per cent of the total cost of the project, shall be made available as immediate working capital simultaneously with loan award.
Your applicant is duly authorized to negotiate said loan, and is fit, willing and able to fulfill the objectives for the project herein set forth; Wherefore your applicant prays for your approval and award of this loan as herein requested.

Respectfully,
UNITED STATES THORIUM INC.

GVH/m

By,Geo.V.Helms, President.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 1 1954

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3511
Metal or Mineral Thorium, Rare Earths, & Uranium
Date Received
Estimated Cost $40,000
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: UNITED STATES THORIUM INC.
724 Wilson Street Los Angeles 21 California.
(A California Corporation)

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See appendix#1 Item 1(c)

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not applicable.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See appendix #1 Items#3-(a)(b)(c)(d)(e)(f)

(*b*) State any mine name by which the property is known. "THOR" group claims 1 to 25 inclusive.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise California mining claims.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See appendix#1 Item #3-(F)

(*e*) If you own the land, describe any liens or encumbrances on it Not applicable

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See appendix#1 Item#3(F)

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See appendix#1 Item#4(a)

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. Appendix #1 Item 4(b)

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See appendix #1 Item #4(c)

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Appendix #1 Item #4(d)

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.
See Appendix #1 Item #4(e)

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Thorium, Rare Earths, Uranium. Appdx#2 Item 5(a)

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See Appendix#2 Item #5(b)

(*c*) The work will start within 30 days and be completed within six months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Appendix#2 Item#5(d)

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See Appendix #3 Item #6-(a)

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. Appendix #4 Item #6-(b) appx.4.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See Appendix #5 Item#6-(c)

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be. See Appendix #6 Item#6-(d)

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project. None

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project. None

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes. See appendix #6 Item #6-(g)

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. appx#6 Item #6-(h)

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[x] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.
See letter of enclosure (Quadruplicate).

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated September 28th, 1954

United States Thorium, Inc.
(Applicant)

By [signature]

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.

Appendix #1.

Item No.

1-(c) Geo.V.Helms,President -- 724 Wilson Street Los Angeles 21 Calif.
G.W.Helms, Vice President - AVS Route #247 Victorville California.
Bertin A.Weyl, Secretary -m724 Wilson Street Los Angeles Calif.
J.L.Beeler,Treasurer -- 610 South Main Street Los Angeles Calif.

3-(a)(b)(c)(d)(e) Applicants Property Rights.

Certain portions of sections 4 and 9,and 5 and 8,Township 2 North Range 5 east San Bernardino meridian,as defined by mining claims designated as THOR group numbered 1 to 25 inclusive, filed at San Bernardino, California.

3-(f) Recorded location as per Book 336 pages 282 to 306 inclusive, of San Bernardino County mining records at San Bernardino,California dated January 4th,1954. Discovery work recorded March 25th 1954, in Book 337 page 490.

4-(a) Physical Description- Pits or cuts 10 feet deep as proof of discovery work accomplished by applicant and recorded.

4-(b) No past or present production but property geologically evidences large reserves.

4-(c) Geologic features, explored mineralization,radioactive anomalies, maps,are as technologically covered by Trace Elements Investigation Report #380 (TEI-380) Titled "An Investigation Of Airborne Radioactivity Anomalies in The Rock Corral Area, San Bernardino,County, California." United States Department Of The Interior Geological Survey.

4-(d) (Accessibility) Negotiable truck and passenger car road direct to location ; Relative rail shipping point-Victorville,Calif,52 Miles
Supply point -Victorville -52 miles.
Residence points -Palm Springs 53 miles; Twenty Nine Palms 29 miles Yucca Valley 13 miles; Lucerne Valley 32 miles; Apple Valley 46 miles Victorville 52 Miles.

4 -(e) Availability,of man power, materials supplies and equipment, is of ready attainment.
Water may be developed on location or hauled by truck 13 miles.
Any necessary power may be developed on location with gas or deisel engines.

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #2.

5.(a) The Exploration Project: Thorium, Rare Earths , Uranium.

5 (b) Refer to maps contained as figures 2 and 3 of TEI-Report 380. Proposed work to be done chiefly in depth and lateral exploration of the quartz monzonite intrusive masses, and biotite rich inclusions in the quartz Monzonite, through core drilling, pit mining and drifting. Improved concentration processes will be sought with new and varied experimental methods used both chemically and physically.

5 (c) Work will be started within 30 days and be completed within 6 months from the date of an exploration contract.

5 (d) Geo.V.Helms,President of the applicant, 30 years practical experience and background as, Transportation, General Contracting, and Mining,Executive, will supervise the operations together with the assistance of a select personnel including the services of a competent Foreman, Mining Engineer, assay Chemist and physicist, will be able to successfully carry out the Exploration Project as presented.

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #3.

6. Estimate Of Costs.

(a) Independent Contracts: Bulldozing

Mine roads essential to placing core drilling equipment in position on locations selected ;stripping, and open cut work, to be effected with heavy duty bulldozing equipment.

Estimated intermittent use 30 days @$100.00 per day----- $3,000.00
(Includes operator,maintenance,except fuel and oil.)

Core Drilling Exploratory sampling on various sites.
Estimated requirements 1500 feet @ $5.00 per foot----- $7,500.00
Includes moving equipment from one location to another on job,and moving equipment to and from job;
Includes labor, operation,and maintenance.

Contract Powder Miner
Estimated pit and drift work with explosives
(includes labor Only) 200 feet @ $10.00 per foot ---- $2,000,00

Water Supply:
Procurement,transportation,and storage of water.
60 days @ $40.00 per day ----- $2,400.00
(Intermittent application)

Appendix #3.Total $14,900.00

Appendix #4.

6 (b) Estimate Of Costs
Labor, Supervision and Consultants.

Labor	4 men @ $25.00 per day each, 60 days	$ 6000,00
	Daily allowance for meals and own car mileage (Intermittent or broken shifts) $8.00 per day each $32.00 x 60 ----------	1920,00
Supervision		
	Foreman 60 days @ $35.00 per day ----------	2100.00
	Meals and mileage own car @$10.00 per day ----	600.00
Consultants		
	Geological 14 days @ $100.00 per day -------	1400.00
	Engineering 21 " @ $100.00 " " -------	2100.00
	Travel expense and lodging 35 days @ $15.00 --	525.00
	Assay and technological (estimate) ----------	1500.00
	Appendix#4 Total--------	$16,145.00

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #5.

6 (c) Operating Materials and Supplies.

Lumber and timber 2400 b/f @ $120.00 per M. ----------	$ 288.00
Transpotation of above from Victorville ----------	50.00
Fuel for equipment and transportation of same(60 days @$25.00) --	1500.00
Rock conveyor (gas driven) - - - ----------	400.00
Tool house and emergency shelter (portable) ----------	600.00
Water pump (gas driven) - - - ----------	200.00
200 feet 3" screw pipe @ 60 ¢ per ft. - ----------	120.00
Explosives (powder) - - - ----------	300.00
Caps - - - - - - ----------	75.00
Fuse - - - - - - ----------	50.00
Shovels 6 @ $4.50 - - - - ----------	27.00
Picks 6 @ $6.50 - - - - ----------	39.00
Axes 3 @ $3.12 - - - - ----------	9.36
Jack hammer drill steel and heads - ----------	67.00
Water canteens 6 @ $4.70 ----------	28.20
First Aid kit and contents ----------	25.00
Carpenters hammers 2 @$1.75 ----------	3.50
Saws --- 2 @ $3.65 ----------	7.30
Pipe wrenches (4) @ $2.85- 3.35- 3.85- 9.50 total--------	19.55
Flash Lites (6) @ $2.50 ----------	15.00
Sledge and hand hammers (3) @ $4.25 ----------	12.75
Appendix#5 Total-------	$3,836.66

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #6.

6.(d) Operating Equipment.
(To be leased without operator)

1	Air Compressor 125 cu.ft. @$140.00 per month (2 months)	$ 280.00
1	" " 185 cu.ft. @185.00 " " (2 months)	370.00
3	" hammers @ $40.00 each per month (2 months)	240.00
	300 feet coupled air hose @ $6.00 per 50 ft. per month $36.00 (2 months)	72.00
1	10KW Light plant $68.50 per month (2 Months)	137.00
1	Portable arc and acetylene welding unit 2 months @ $200.00	400.00
	Transportation charges on the above equipment to location and return to Lessor ----------	300.00
		$1,799.00

6 (e) Rehabilitation and repairs.

"None".

6 (f) New buildings, Improvements, Installations.

"None".

6 (g) Miscellaneous

Maintenance and repair parts	$ 500.00
Extra analytical and assay	500.00
Accounting	500.00
Compensation and liability Insurance and taxes ----------	800.00
	$2,300.00

6 (h) Contingencies)

Unforseen	$1,019.34

Total Estimate of Costs
Appendix #3-#4-#5-#6.

From Appendix #3------	$14,900.00
" " #4------	16,145.00
" " #5 ------	3,836.66
" " #6 ------	1,799.00
	2,300.00
	1,019,34
TOTAL-----	$40,000.00

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 1 1954

September 30 1954.

The Defense Minerals Exploration
Administration,
Department of the Interior
Washington 25,D.C.

Gentlemen:

The attached application for government aid in financing the cost of our "THOR" exploration project in the Rock Corral area San Bernardino County California is herewith respectfully submitted.

In accordance with the purpose and provisions of DMA Order-1 under the Defense Production Act of 1950, as amended, we wish to point out that certain limited general geological, geophysical, and geochemical information has already been developed in connection with the property included in our exploration project; this information as contained with USG report TM-100 together with our own preliminary discovery work, examinations, and assays, strongly indicates the necessity for exploration within the meaning of the Act, and further warrants prompt processing of this application to activate this work as an immediate essential.

We therefore respectfully submit the said application in 10'o entirety, in the form and manner prescribed(DMA -100) with essential appendages as noted.

The total cost of the exploration project is contemplated at this time to be the amount of $40,000.00, to be disbursed as estimated in the accompanying data; except,it is requested in instance of any over-estimated items,that they may accrue as differential credits, to be reflected in like amounts for allowable increases in case of under-estimated items, if any.
The amount of $10,000.00 in cash, representing 25 per cent of the total cost of the project, shall be made available as immediate working capital simultaneously with loan award.
Your applicant is duly authorized to negotiate said loan, and is fit, willing and able to fulfill the objectives for the project herein set forth; therefore your applicant prays for your approval and award of this loan as herein requested.

Respectfully,
UNITED STATES THORIUM INC.

By,Geo.V.Soino, President.

GVS/m

MF-108
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 1 1954

Form Approved
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3511
Metal or Mineral Thorium, Rare Earths, & Uranium
Date Received
Estimated Cost $40,000
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: United Grains Mining Inc.
724 Wilson Street Los Angeles 21 California.
(A California Corporation)

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See appendix #1 Item 1(c)

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not applicable.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See appendix #1 Items 3-(a)(b)(c)(d)(e)(f)

(*b*) State any mine name by which the property is known "TRON" group claims 1 to 25 inclusive.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise California mining claims.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See appendix #1 Item #3-(F)

(*e*) If you own the land, describe any liens or encumbrances on it Not applicable

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See appendix #1 Item #3(F)

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See appendix #1 Item #4(a)

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. Appendix #1 Item 4(b)

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See appendix #1 Item #4(c)

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Appendix #1 Item #4(d)

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.
See Appendix #1 Item #4(e)

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Thorium, Rare Earths, Uranium. Appdx #2 Item 5(a)

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See Appendix #2 Item #5(b)

(*c*) The work will start within 30 days and be completed within six months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Appendix #2 Item 5(d)

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See Appendix #3 Item #6-(a)

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. Appendix #4 Item #6-(b) Appx. 4.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See Appendix #6 Item #6-(c)

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be. See Appendix #6 Item #6-(d)

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project. None

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project. None

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes. See appendix #6 Item #6-(g)

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. Appx #6 Item #6-(h)

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[x] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

See letter of enclosure (Quadruplicate)

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated September 25th, 1954

United States Thorium, Inc.
(Applicant)

By W. Helms
President

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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 1 1954

Appendix #1.

Item No.

1-(c) Geo.V.Helms,President -- 724 Wilson Street Los Angeles 21 Calif.
G.W.Helms, Vice President - AVS Route #247 Victorville California.
Bertin A.Weyl, Secretary - 724 Wilson Street Los Angeles Calif.
J.L.Zeeler,Treasurer -- 610 South Main Street Los Angeles Calif.

3-(a)(b)(c)(d)(e) Applicants Property Rights.

Certain portions of sections 4 and 9,and 5 and 8,Township 2 North Range 5 east San Bernardino meridian,as defined by mining claims designated as THUR group numbered 1 to 23 inclusive, filed at San Bernardino, California.

3-(f) Recorded location as per Book 534 pages 292 to 306 inclusive, of San Bernardino County mining records at San Bernardino,California dated January 4th,1954. Discovery work recorded March 25th 1956, in Book 337 page 690.

4-(a) Physical Description- Pits or cuts 10 feet deep as proof of discovery work accomplished by applicant and recorded.

4-(b) No past or present production but property geologically evidences large reserves.

4-(c) Geologic features, explored mineralization,radioactive anomalies, maps,are as technologically covered by Trace Elements Investigation Report #380 (TEI-380) Titled "An Investigation Of Airborne Radioactivity Anomalies in The Rock Corral Area, San Bernardino,County, California." United States Department Of The Interior Geological Survey.

4-(d) (Accessibility) Negotiable truck and passenger car road direct to location ; Relative rail shipping point-Victorville,Calif,32 Miles
Supply point -Victorville -32 miles.
Residence points -Palm Springs 53 miles; Twenty Nine Palms 20 miles
Yucca Valley 13 miles; Lucerne Valley 32 miles; Apple Valley 43 miles
Victorville 32 Miles.

4 -(e) Availability,of man power, materials supplies and equipment, is of ready attainment.
Water may be developed on location or hauled by truck 15 miles.
Any necessary power may be developed on location with gas or diesel engines.

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #2.

5.(a) The Exploration Project: Thorium, Rare Earths , Uranium.

5 (b) Refer to maps contained as figures 2 and 3 of TEX-Report 550. Proposed work to be done chiefly in depth and lateral exploration of the quartz monzonite intrusive masses, and biotite rich inclusions in the quartz Monzonite, through core drilling, pit mining and drifting. Improved concentration processes will be sought with new and varied experimental methods used both chemically and physically.

5 (c) Work will be started within 30 days and be completed within 6 months from the date of an exploration contract.

5 (d) Geo.V.Heine,President of the applicant, 50 years practical experience and background as, Transportation, General Contracting, and Mining,Executive, will supervise the operations together with the assistance of a select personnel including the services of a competent Foreman, Mining Engineer, assay Chemist and physicist, will be able to successfully carry out the Exploration Project as presented.

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #3.

6. Estimate Of Costs.

(a) Independent Contracts: Bulldozing
Mine roads essential to placing core drilling equipment in position on locations selected ;stripping and open cut work, to be effected with heavy duty bulldozing equipment.
Estimated intermittent use 30 days @$100.00 per day----- $3,000.00
(Includes operator,maintenance,except fuel and oil.)

Core Drilling Exploratory sampling on various sites.
Estimated requirements 1500 feet @ $5.00 per foot----- $7,500.00
Includes moving equipment from one location to another on job,and moving equipment to and from job;
Includes labor, operation,and maintenance.

Contract Feeder Miner
Estimated pit and drift work with explosives
(includes labor Only) 200 feet @ $10.00 per foot ---- $2,000.00

Water Supply:
Procurement,transportation,and storage of water.
60 days @ $40.00 per day ----- $2,400.00
(Intermittent application)

Appendix #3.Total $14,900.00

Appendix #4.

6 (b) Estimate of Costs

Labor, Supervision and Consultants.

Labor	4 men @ $25.00 per day each, 60 days	$ 6000.00
	Daily allowance for meals and own car mileage (Intermittent or broken shifts) $8.00 per day each $32.00 x 60 ----------	1920.00
Supervision		
	Foreman 60 days @ $35.00 per day ----------	2100.00
	Meals and mileage own car @ $10.00 per day ----	600.00
Consultants		
	Geological 14 days @ $100.00 per day -------	1400.00
	Engineering 21 " @ $100.00 " " -------	2100.00
	Travel expense and lodging 55 days @ $15.00 --	825.00
	Assay and technological (estimate) ----------	1600.00
	Appendix #6 Total--------	$16,145.00

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #5.

6 (c) Operating Materials and Supplies.

Lumber and timber 2400 b/f @ $120.00 per M.	$ 288.00
Transportation of above from Victorville	50.00
Fuel for equipment and transportation of same(60 days @$25.00)	1500.00
Rock conveyor (gas driven)	400.00
Tool house and emergency shelter (portable)	600.00
Water pump (gas driven)	200.00
200 feet 3" power pipe @ 60 ¢ per ft.	120.00
Explosives (powder)	300.00
Caps	75.00
Fuse	50.00
Shovels 6 @ $4.50	27.00
Picks 6 @ $8.50	50.00
Axes 3 @ $3.12	9.36
Rock hammer drill steel and bands	67.00
Water canteens 6 @ $4.70	28.20
First Aid kit and contents	35.00
Carpenters hammers 3 @$1.75	5.50
Saws --- 2 @ $3.65	7.30
Pipe wrenches (4) @ $2.65- $55- 3.86- 9.50 total	19.35
Flash Lites (6) @ $2.50	15.00
Sledge and hand hammers (3) @ $4.25	12.75
Appendix #5 Total	$ 3,506.00

UNITED STATES THORIUM, INC.
NUCLEAR FISSIONABLE MATERIALS DEVELOPMENT
724 WILSON STREET - TELEPHONE TRINITY 6521
LOS ANGELES 21, CALIFORNIA

Appendix #8.

6.(d) Operating Equipment.
(To be leased without operator)

1 Air Compressor 185 cu.ft. @$160.00 per month (2 months)	$ 320.00
1 " " 185 cu.ft. @$135.00 " " (2 months)	270.00
3 " hammers @ $40.00 each per month (2 months)	240.00
300 feet coupled air hose @ $6.00 per 50 ft. per month @$36.00 (2 months)	72.00
1 10KW light plant $68.50 per month (2 Months)	137.00
1 Portable arc and acetylene welding unit 2 months @ $200.00	400.00
Transportation charges on the above equipment to location and return to lessor	500.00
	$1,799.00

6 (e) Rehabilitation and repairs.

"None".

6 (f) New buildings, Improvements, Installations.

"None".

6 (g) Miscellaneous

Maintenance and repair parts	$ 500.00
Extra analytical and assay	500.00
Accounting	500.00
Compensation and liability Insurance and taxes	500.00
	$2,000.00

6 (h) Contingencies.

Unforeseen	$1,010.34
Total Estimate of Costs Appendix #6-#4-#5-#8.	
From Appendix #4	$14,000.00
" " #5	10,140.00
" " #6	5,880.66
" " #8	1,790.00
	2,500.00
	1,010.34
TOTAL	$35,000.00

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