Cross-reference.

See contract Idm-E638 in Docket DMEA-3060

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2591

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

EXPLORATION PROJECT

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 Copies to USBM and USGS. One copy retained in Region IV.

To: Code 700, Rm. 4640 Date 6-27-52

To: Ops Committee Date 7-18-52

To: Acting Adm. Date

To: Mails & Files Date

To: Ellis (Docket) Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

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CONTROLLED DOCUMENT

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

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

December 11, 1952

Memorandum

To: Operating Control & Statistics Division

From: Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

Subject: Docket No. DMEA-2591 (Uranium)
Excalibur Uranium Corporation
Seven Mile Area Claims
Grand County, Utah

The Executive Officer of Region IV, by the attached memorandum dated December 8, 1952, has transmitted a communication from an officer of the Applicant-company stating its desire to abandon the above-captioned application.

We are, accordingly, removing this docket from our list of pending applications and considering it closed by withdrawal. The docket file is returned herewith.

Ernest Wm. Ellis

Ernest Wm. Ellis

700 FILE COPY
SURNAME:

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

December 11, 1952

Memorandum

To: Operating Control & Statistics Division

From: Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

Subject: Docket No. DMEA-2991 (Uranium)
Excalibur Uranium Corporation
Seven Mile Area Claims
Grand County, Utah

The Executive Officer of Region IV, by the attached memorandum dated December 8, 1952, has transmitted a communication from an officer of the Applicant-company stating its desire to abandon the above-captioned application.

We are, accordingly, removing this docket from our list of pending applications and considering it closed by withdrawal. The docket file is returned herewith.

Ernest Wm. Ellis

GLAult/EWEllis/gla
12-11-52
cc to: Adm. Reading File
Docket
Messrs. A. P. Butler, Jr. Rm. 3206 GSA
Mr. H. D. Keiser, Rm. 3647
DMEA Field Team, Region IV (2)

12-12-52

12/11/52 gla

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

224 New Customhouse
Denver 2, Colorado

December 8, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 1952

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2591, Excalibur Uranium Corporation

Enclosed is a copy of a letter dated November 16, 1952, from the Thornburg Mining Company requesting that the Excalibur Uranium Corporation's application No. DMEA 2591 be abandoned.

This application will be placed in our inactive file. Vance Thornburg is also an officer of the Excalibur Uranium Corporation.

W. H. King
W. H. King

Enclosure

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

224 New Customhouse
Denver 2, Colorado

December 8, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 1952

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2591, Excalibur Uranium Corporation

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W. H. King

W. H. King

Enclosure

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

224 New Customhouse
Denver 2, Colorado

December 8, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 1952

Mr. Frank L. Seymour
208 Vorbeck Building
Grand Junction, Colorado

Dear Mr. Seymour:

This will acknowledge receipt of your letter dated November 16, 1952, requesting that Docket DMEA 2591 be abandoned.

We have accordingly placed your application in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Contract
Chron
COMittendorf (2)
SRWilson
AHKoschmann (2)

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

224 New Customhouse
Denver 2, Colorado

December 8, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 1952

Mr. Frank L. Seymour
208 Vorbeck Building
Grand Junction, Colorado

Dear Mr. Seymour:

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We have accordingly placed your application in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Contract
Chron
COMittendorf (2)
SRWilson
AHKoschmann (2)

FILE COPY
700 SURNAME:

Ellis
Thayer
Hedges

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

JUL 18 1952

Mr. Vance Thornburg
Excalibur Uranium Corporation
U. S. Bank Building
Grand Junction, Colorado

Re: Docket No. DMEA-2591 (Uranium)
Seven Mile Area Claims
Grand County, Utah

Dear Mr. Thornburg:

The application for assistance in exploring your property in Grand County, Utah, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. Your application has been referred for a field examination to the Executive Officer of Region IV at the following address:

Mr. W. H. King
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

7/18

(signed) FRANK E. JOHNSON (fw)

Acting Administrator

EWEllis/jem
7/17/52
cc to: Adm. Reading File
Docket
Messrs. Ellis
Field Team, Region IV (2)

FILE COPY
SURNAME:
700

Ellis
Selfridge
Hoffman

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

JUL 18 1952

Mr. W. H. King
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DM[illegible]-2591 (Uranium)
Excalibur Uranium Corporation
Seven Mile Area Claims
Grand County, Utah

Dear Mr. King:

The captioned application is referred to your office for a field examination and recommendation based thereon. A copy of the application was retained by your office.

Copies of memorandums from Mr. A. [illegible] Seiser dated July 3, 1952, and Mr. Arthur P. Butler, Jr. dated July 7, 1952, outlining important questions to be considered by the Field Team are enclosed.

In addition to the important points enumerated in the comments of the commodity specialists the question arises as to the advisability of renting one 500 cfm compressor. Since the portals of the two proposed crosscuts are some 1200 feet apart, perhaps two small portable units would be more practical.

If approval of the contract in one form or another is indicated, kindly see that Applicant submits an executed copy of the lease at an early date.

Kindly note that Applicant has one completed contract Docket No. DM-1631, (contract number IDM-236) and another contract, Docket No. DM-1896, which is being drawn up.

IDM-E 488

Sincerely yours,

7/18

George C. Selfridge (WB)
ACTING Chairman, Operating Committee

APPROVED:

J. H. Hedges (WB)
Member, Bureau of Mines

T. P. Thayer (WB)
Member, Geological Survey

EWEllis/jem 7/17/52
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. AJKauffman-Rm. 1347
APButler-Rm. 3206 GSA
Ellis
Field Team, Region IV

7/9/52 gla

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Ernest Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: July 7, 1952

FROM : A. P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Application DMEA Docket 2591(uranium), Excalibur Uranium Corporation, applicant; Shinarump 1, 1A, 3, and 4, Vance Thornburg and Gara Kristen claims, Grand County, Utah.

The application described in the subject above has been received, and I have discussed it with H. D. Keiser, B. M. member of the Commodity Committee. Because the property is producing commercial grade ore, I agree with Mr. Keiser that it merits consideration for exploration aid subject to the considerations set forth below.

The applicant does not define location of the claims specifically enough to permit their position to be determined on a map, nor does he show relation between places where ore was mined and geologic features, or present enough geologic information to permit appraisal of the merit and amount of the proposed exploration. The Geological Survey files and available Atomic Energy Commission reports contain no reference to the claim that would supplement the applicant's information.

I suggest that the applicant be asked to submit a more specific statement on location of the claims, and that he submit records that would substantiate the statement about grade and amount of ore mined or advise where those records may be consulted. Inasmuch, however, as information submitted by the applicant on other applications, dockets 1631X and 1896 appears to have been reliable, I believe that referral to the field team need not wait receipt of this information.

Whether or not exploration aid is advisable, and if it is, whether or not the proposed plan of exploration by two 600 ft. adits is sound can be judged only on basis of geologic features of the deposit as determined by field examination. If the Chinle slope is accessible at reasonable expense an initial stage of drilling might be advisable in order to guide the position of and amount of underground work more effectively.

I suggest that the field team consult with the Chief, Grand Junction Exploration Branch, U. S. Atomic Energy Commission, Grand Junction, Colorado to obtain the benefit of information and suggestions from the AEC's staff.

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 8 - 1952

7/8/52 glu
la

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

July 3, 1952

Memorandum

To: Ernest William Ellis, DMEA Member, Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member, Uranium Commodity Committee

Subject: DMEA Docket 2591, Excalibur Uranium Corporation.

I have reviewed the subject application and discussed it with Arthur P. Butler, Geological Survey Member.

It is recommended that the subject application be referred to the field team for investigation and report, and with the suggestion that determination be made as to whether (1) an exploration loan is advisable, in view of the current daily output of 15 tons of ore averaging 0.3 percent U_3O_8, (2) the proposed plan of exploration by two 600-ft. crosscuts is warranted from a geological standpoint, and (3) the rental rates for equipment listed in the application are in line with prevailing rates.

H. D. Keiser

H. D. Keiser

Attachment

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 - 1952

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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. DMEA-2591
Metal or Mineral
Date Received 6-27-52
Estimated Cost
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951

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: Excalibur Uranium Corporation
U. S. Bank Building
Grand Junction
Colorado Phone 1953

(*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.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

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

(*b*) State any mine name by which the property is known.

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

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*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.

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(State the mineral or minerals for which you to explore .....

(*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.

(*c*) The work will start within ..... days and be completed within ..... 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.

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.).

(*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.

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

(*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.

(*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.

(*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.

(*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.

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

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?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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 May 30, 1952

Excalibur Uranium Corporation
(Applicant)

By Vance Thornburg
Executive Vice-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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

- Answers to Questions - Form MF-103 -

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

(1).

a). Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado

b). Incorporated in the State of Colorado. Licensed to do business in the State of Utah.

c). President - Harry B. Combs - 127 Vine Street, Denver, Colorado.
Executive Vice-President - Vance Thornburg - Room 27, U.S. Bank Building - Grand Junction, Colo.
Secretary - Peter Dominick - 3600 South Gilpin Street, Denver, Colorado
Treasurer - John C. Mitchell - 2601 South Sheridan Blvd. Denver, Colorado.

d). Not applicable.

(3).

a). The proposed exploration will be within the boundaries of the Shinarumph No. 3, Shinarumph No. 4 and Shinarumph No. 1 A claims. However, in addition to these claims the following claims are included since they may be benefitted by the proposed exploration: Shinarump No. 1 Fraction, Vance Thornburg and Gara Kristin. Reference is made to the attached map marked Exhibit "A"., which which shows the group of claims and the proposed X-cuts.

The legal description of the claims involved in the exploration project is:

Shinarump No. 1A:

Beginning at discovery stake, thence N 70 35 E - 75 ft. to the East end center stake; thence S19-25E - 300 ft. to the SE Cor. #1; thence S70-35W - 1500 ft. to the SW Cor. #2; thence N19-25W- 300 ft. to the West end center stake; thence N19-25W - 300 ft. to the NW Cor. #3; thence N70-35E - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. to the East end center stake or the point of beginning.

Shinarump No. 1 Fraction:

The Northerly one hundred fifty feet (150) of Shinarump No. 1, as determined by a line one hundred fifty (150) feet South of and parallel with the Northerly boundary thereof.

Shinarump No. 1: Beginning at Discovery stake; thence S19-25E - 300 ft. to the SE Cor #1; thence S70-35W - 1500 ft. to the SW Cor #2; thence N19-25W - 300 ft. to the West end center stake; thence N19-25W -300 ft. to the NW Cor #3; thence N70-35E - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. back to the point of beginning.

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

Shinarump No. 3: (Amended Location)

Beginning at the Discovery Stake at which this notice is posted; thence N45-30E -180 ft. to the East end center stake; thence S44-30E - 300 ft. to the SE Cor No1; thence S45-30W - 1500 ft. to the SW Cor. No 2; thence N44-30W - 300 ft. to the West end and center stake; thence N44-30W - 300 ft. to the NW Cor. #3; thence N45-30W - 1500 ft. to the NE Cor. #4; thence S44-30E - 300 back to the East end center stake.

Shinarump #4:

Beginning at the Discovery stake at which this notice posted; thence N70-35E - 115 ft. to the East end center stake; thence S19-25E - 300 ft. to the SE Cor. #1; thence S70-35W - 1500 ft. to the SW Cor #2; thence N19-25W - 300 ft. to the West end center stake; thence N19-25W - 300 ft. to the NW Cor #3; thence N70-35# - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. back to East end center stake.

Vanse Thornburg:

Beginning from this location or discovery stake and running N64E - 270 ft. to East end center stake; thence running S44-30E - 300 ft. to the SW Cor. #1; thence S64W - 1500 ft. to SW Cor. #2; thence N44-30W - 300 ft. to West end center stake; thence N44-30W - 300 ft. to NW Cor #3; thence N64E - 1500 ft. to the NE Cor. #4; thence S44-30E - 300 ft. to the East end center stake or point of beginning.

Gara Kristen :

From the location marker Northwest 200 ft. to Northwest boundary line; thence Southwest 400 ft. to the Southwest corner; thence 600 ft. to Southeast to the Southeast corner; thence 1500 ft. Northwest to the Northeast corner; thence 600 ft. Northwest to the Northwest corner; thence 1500 ft. Southwest to the Southwest corner. This claim is located about one mile west, Northwest from the Underwood line camp on Yellow Cat Wash, Township, Range and Section unknown. Located 17th day of April 1951. Yellow Cat Mining District.

b). The claims were only recently worked and are not known by any particular mine name.

c). Applicant is a lessee of the property.

d). Will furnish later.

e). Not applicable.

f). Shinarump No. 1A, being entry No. 208598, recorded in Book 9K, at page 289, in the office of the County Recorder, of Grand County, Utah.

Shinarump No. 1, the Northerly 150 feet of this claim as determined by a line one hundred fifty (150) feet South of and parallel with the northerly boundary thereof; said Shinarump No. 1 being entry No. 208597 recorded in Book 9K. at page 288 in the office of the County Recorder of Grand County, Utah.

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

Shinarump No. 3, the notice of location of said claim being recorded as entry No. 204988 in book 9J of the mining records page 235, in the office of the County Recorder of Grand County, Utah, and on which said mining claim, amended location notice has been filed of record in said office of the County Recorder in book 9K of mining records, at page 168, to which notice and amended location notice, reference is hereby made.

Shinarump No. 4, the notice of location of said claim being recorded as entry No. 205435 in Book 9J of the mining records, page 310, in the office of the County Recorder of Grand County, Utah, and on which said mining claim, amended location notice has been filed of record in said office of the County Recorder in Book 9K of mining records, at page 168, to which notice and amended location notice, reference is hereby made.

Vanee Thornburg: Book 9J, Page 171, Entry No. 208377.

Gara Kristen: Book 9J, Page 600, Entry No. 207434.

(4).

a). Reference is made to the attached map marked Exhibit "A". The map shows the 6 claims involved which might be benefitted by the proposed exploration, the North and South underground workings, the basal contact of the Wingate and Chinle formations and the surface cuts. There is also shown a section along the proposed South X-cut. Both North and South workings as well as surface cuts have exposed intermittent mineralization in the Shinarump formation for a distance of 1400 feet. The Shinarump outcrop or the basal contact of the Chinle is shown on the map in dashed lines.

Limited mining and development work is now in progress at both the North and South workings. A total of 400 feet of development drifts have been driven at the South workings. One X-cut tunnel, 85 feet in length, has been driven at the North workings. Some 700 feet of dozer cuts expose the outcrop at the rim.

The mine workings are dry. There is no water to contend with and all mine workings are readily accessible for examination.

b). Past production of the property has amounted to 1278 tons of ore assaying 0.46% U3O8.

Current production amounts to approximately 15 tons of ore/dy. assaying 0.30% U3O8.

Ore reserves are difficult to estimate and are therefore limited to a few hundred tons.

c). As indicated on the attached map marked Exhibit "A" in dashed lines, a mineralized bed of the Shinarump formation outcrops at the rim for a distance of 1400 feet. The mineralized bed is at the base of the Chinle and rests on the red shales of the Moenkopi formation. The formation strikes N 60 W and dips 6 degrees to the northwest. Several points along the exposed outcrop where exposed by dozer cuts, are radioactive. Underground workings have discovered commercial ore.

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

The uranium mineral has been identified as pitchblende. Hand picked samples have assayed as high as 8½% U_3O_8. Copper is present in the leached zone at the outcrop and appears to be increasing as distance back from the rim is attained. See section on attached map marked Exhibit "A".

Major faulting occurs just East of the claims striking Northwest. The vertical throw of the fault must be in excess of 2000 feet since the Chinle formation on the West side of the fault is found in contact with the upper Morrison on the East side. Within the area comprising the claims, the formation has been fractured and broken by a series of parallel breaks with no discernible displacement. The fractures are roughly parallel to the major fault to the East.

It is the opinion of Leo J. Coady, Consulting Mining Engineer of Grand Junction, Colorado, who prepared this application, that conditions found here are geologically and structurally similar to the Cooper-Bronson mine in White Canyon.

The Chinle formation as exposed on the claims consists of intermittent layers of sandstones and clays. At several points and for some distance along the rim, the clays are exceptionally thick. Areas of excessive bleaching of both the clays and sandstone were noted. Trees and trash carbon are quite common in the mineralized bed in both the South Workings and the North Workings.

A study of the section shown on attached map marked Exhibit "A" shows the vertical cliffs of the Wingate and the steeply dipping slopes of the Chinle formations. The depth of core drill holes required and the rugged terrain prohibits a core drilling program. It is the writer's opinion that a core drilling program is not feasible.

Therefore, in lieu of a core drilling program, Applicant is requesting a loan to drive two X-cuts as shown on the attached map marked Exhibit "A" well within the thick cover of the Wingate formation. The exploration X-cuts should show primary mineralization at vertical depths 700 feet below the surface.

This property is truly in the exploration stage and no geologic reports are available.

d). The East boundary of the claims is only one quarter of a mile off highway No. 160 at a point twelve miles North of Moab and is easily accessible. The claims are 62 miles from the Government processing plant at Monticello over an excellent black top highway. Supplies are accessible in both Moab and Monticello, Utah.

e). An ample supply of manpower is available including Indians from the Navaho Reservation.

(5).

a). Uranium and Vanadium Minerals (Pitchblende).

b). Reference is made to the attached map marked Exhibit "A" showing in plan the proposed exploration X-cuts. Also shown is a longitudinal section along the South X-cut. Also shown on the map in plan is the relation of the proposed X-cuts to the rim outcrop and the North and South underground workings. As noted above, it is proposed to drive the X-cuts in the mineralized bed with the floor of the X-cuts on the red beds. The grade of the X-cuts may vary depending entirely on the unknown dips of the red clay beds.

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Phone 1953

c). The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

d). Mr. Vance Thornburg, Executive Vice-President of Excalibur Uranium Corporation, will direct the operation. Mr. Leo J. Coady, Consulting Mining Engineer, will act as Consultant.

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(6).
a), b), c), d), e), f), g), and h):

<u>Proposed North and South X-cuts:</u>

Costs based on: Total footage 1200'(2-X-cuts @600' ea.) Size 6'X8'. Advance 16'/dy(both X-cuts). Time required 78 dys(3 mo.@26 work days/month.

Direct labor costs	(26Dys) PER MONTH	3 MONTHS	
8-Miners @ $18/dy. -	$3744	$11232	
2-Engineers (pulling cars up incline) @ $14/dy -	728	2184	
1-Truck Driver @ $12/dy -	312	936	$14352

Indirect labor costs:			
1-Supt. and Engineer (combined)@ $700/mo -	700	2100	
1-Consulting Engineer -	800	2400	
Accounting Expenses (part time @$300/mo -	300	900	
Assaying Expenses " " " "	300	900	
Payroll taxes, etc.-(10%) -	660	1980	$ 8280

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Equipment rental and cost of supplies:

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1- 500 cu.ft. Compressor-cost $12000, rental @ -	600	1800	
Operating expenses (gas, oil, repairs & services @ $20/dy) -	520	1560	
2- Eimco Mucking Machines (18" gauge track Cost $6400. Rental @ -	500	1500	
Operating expenses, oil, & services -	130	390	
1- Compressed Air Trammer - 18" gauge track Cost $2300. Rental at -	200	600	
2) 1- Single Drum Gas Hoist & 700' cable, Cost $1200, Rental @ -	100	300	
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5- Tons (12 lb. Mine Rails, Bolts, Fishplates & track spikes). Salvage item -	-	800	
2600 ft. 2" Black Iron Pipe (Air) (Salvage) -		1950	
2600 ft. 1" " " " (Water)(") -		1560	
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100- 4" X 6" Track Ties (4 ft. long)	-	150	
Supply of small mine tools (expendable) -	-	200	$18274
Total Estimated Costs -			$40906
Estimated Cost per foot -			$34.08

Applicant's Share (10% of $40906) - $4090.

Although it is not anticipated, should water be encountered in the South X-cut, a contingency allowance of $3000 is requested to provide pumping and necessary water removing facilities.

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b). Applicant is prepared and if so requested, will deposit his share ($4090) of the project in any bank designated by Defense Minerals Exploration Administration.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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. DMEA-2591
Metal or Mineral
Date Received 6-27-52
Estimated Cost
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951

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: Excalibur Uranium Corporation
U. S. Bank Building
Grand Junction
Colorado

(*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.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

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

(*b*) State any mine name by which the property is known.

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

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*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.

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

16—66551-1

JUN 2 1952
TBPCO

5. *The exploration project.*—(State the mineral or minerals for which you to explore .....

(*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.

(*c*) The work will start within ..... days and be completed within ..... 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.

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.).

(*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.

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

(*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.

(*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.

(*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.

(*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.

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

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?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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 May 30, 1952

Excalibur Uranium Corporation
(Applicant)

By Vance Thornburg
Executive Vice 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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

- Answers to Questions - Form MF-103 -

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

(1).

a). Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado

b). Incorporated in the State of Colorado. Licensed to do business in the State of Utah.

c). President - Harry E. Banks - 127 Vine Street, Denver, Colorado.
Executive Vice-President - Vance Thornburg - Room 27, U.S. Bank Building - Grand Junction, Colo.
Secretary - Peter Dominick - 3600 South Gilpin Street, Denver, Colorado
Treasurer - John C. Mitchell - 2601 South Sheridan Blvd. Denver, Colorado.

d). Not applicable.

(3).

a). The proposed exploration will be within the boundaries of the Shinarump No. 3, Shinarump No. 4 and Shinarump No. 1 A claims. However, in addition to these claims the following claims are included since they may be benefitted by the proposed exploration: Shinarump No. 1 Fraction, Vance Thornburg and Gara Kristin. Reference is made to the attached map marked Exhibit "A"., which which shows the group of claims and the proposed X-cuts.

The legal description of the claims involved in the exploration project is:

Shinarump No. 1A:

Beginning at discovery stake, thence N 70 35 E - 75 ft. to the East end center stake; thence S19-25E - 300 ft. to the SE Cor. #1; thence S70-35W - 1500 ft. to the SW Cor. #2; thence N19-25W- 300 ft. to the West end center stake; thence N19-25W - 300 ft. to the NW Cor. #3; thence N70-35E - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. to the East end center stake or the point of beginning.

Shinarump No. 1 Fraction:

The Northerly one hundred fifty feet (150) of Shinarump No. 1, as determined by a line one hundred fifty (150) feet South of and parallel with the Northerly boundary thereof.

Shinarump No. 1: Beginning at Discovery stake; thence S19-25E - 300 ft. to the SE Cor #1; thence S70-35W - 1500 ft. to the SW Cor #2; thence N19-25W - 300 ft. to the West end center stake; thence N19-25W -300 ft. to the NW Cor #3; thence N70-35E - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. back to the point of beginning.

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Shinarump No. 3: (Amended Location)

Beginning at the Discovery Stake at which this notice is posted; thence N45-30E -180 ft. to the East end center stake; thence S44-30E - 300 ft. to the SE Cor No1; thence S45-30W - 1500 ft. to the SW Cor. No 2; thence N44-30W - 300 ft. to the West end end center stake; thence N44-30W - 300 ft. to the NW Cor. #3; thence N45-30W - 1500 ft. to the NE Cor. #4; thence S44-30E - 300 back to the East end center stake.

Shinarump #4:

Beginning at the Discovery stake at which this notice posted; thence N70-35E - 115 ft. to the East end center stake; thence S19-25E - 300 ft. to the SE Cor. #1; thence S70-35W - 1500 ft. to the SW Cor #2; thence N19-25W - 300 ft. to the West end center stake; thence N19-25W - 300 ft. to the NW Cor #3; thence N70-35W - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. back to East end center stake.

Vance Thornburg:

Beginning from this location or discovery stake and running N64E - 270 ft. to East end center stake; thence running S44-30E - 300 ft. to the SW Cor. #1; thence S64W - 1500 ft. to SW Cor. #2; thence N44-30W - 300 ft. to West end center stake; thence N44-30W - 300 ft. to NW Cor #3; thence N64E - 1500 ft. to the NE Cor. #4; thence S44-30E - 300 ft. to the East end center stake or point of beginning.

Gara Kristen :

From the location marker Northwest 200 ft. to Northwest boundary line; thence Southwest 400 ft. to the Southwest corner; thence 600 ft. to Southeast to the Southeast corner; thence 1500 ft. Northeast to the Northeast corner; thence 600 ft. Northwest to the Northwest corner; thence 1500 ft. Southwest to the Southwest corner. This claim is located about one mile west, Northwest from the Underwood line camp on Yellow Cat Wash, Township, Range and Section unknown. Located 17th day of April 1951. Yellow Cat Mining District.

b). The claims were only recently worked and are not known by any particular mine name.

c). Applicant is a lessee of the property.

d). Will furnish later.

e). Not applicable.

f). Shinarump No. 1A, being entry No. 208598, recorded in Book 9K, at page 289, in the office of the County Recorder, of Grand County, Utah.

Shinarump No. 1, the Northerly 150 feet of this claim as determined by a line one hundred fifty (150) feet South of and parallel with the northerly boundary thereof; said Shinarump No. 1 being entry No. 208597 recorded in Book 9K. at page 288 in the office of the County Recorder of Grand County, Utah.

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Shinarump No. 3, the notice of location of said claim being recorded as entry No. 204988 in book 9J of the mining records page 235, in the office of the County Recorder of Grand County, Utah, and on which said mining claim, amended location notice has been filed of record in said office of the County Recorder in book 9K of mining records, at page 168, to which notice and amended location notice, reference is hereby made.

Shinarump No. 4, the notice of location of said claim being recorded as entry No. 205435 in Book 9J of the mining records, page 310, in the office of the County Recorder of Grand County, Utah, and on which said mining claim, amended location notice has been filed of record in said office of the County Recorder in Book 9K of mining records, at page 168, to which notice and amended location notice, reference is hereby made.

Vanne Thornburg: Book 9J, Page 171, Entry No. 208377.

Gara Kristen: Book 9J, Page 600, Entry No. 207434.

(4).

a). Reference is made to the attached map marked Exhibit "A". The map shows the 6 claims involved which might be benefitted by the proposed exploration, the North and South underground workings, the basal contact of the Wingate and Chinle formations and the surface cuts. There is also shown a section along the proposed South X-cut. Both North and South workings as well as surface cuts have exposed intermittent mineralization in the Shinarump formation for a distance of 1400 feet. The Shinarump outcrop or the basal contact of the Chinle is shown on the map in dashed lines.

Limited mining and development work is now in progress at both the North and South workings. A total of 400 feet of development drifts have been driven at the South workings. One X-cut tunnel, 85 feet in length, has been driven at the North workings. Some 700 feet of dozer cuts expose the outcrop at the rim.

The mine workings are dry. There is no water to contend with and all mine workings are readily accessible for examination.

b). Past production of the property has amounted to 1278 tons of ore assaying 0.46% U3O8.

Current production amounts to approximately 15 tons of ore/dy. assaying 0.30% U3O8.

Ore reserves are difficult to estimate and are therefore limited to a few hundred tons.

c). As indicated on the attached map marked Exhibit "A" in dashed lines, a mineralized bed of the Shinarump formation outcrops at the rim for a distance of 1400 feet. The mineralized bed is at the base of the Chinle and rests on the red shales of the Moenkapi formation. The formation strikes N 60 W and dips 6 degrees to the northwest. Several points along the exposed outcrop where exposed by dozer cuts, are radioactive. Underground workings have discovered commercial ore.

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The uranium mineral has been identified as pitchblende. Hand picked samples have assayed as high as 84% U_3O_8. Copper is present in the leached zone at the outcrop and appears to be increasing as distance back from the rim is attained. See section on attached map marked Exhibit "A".

Major faulting occurs just East of the claims striking Northwest. The vertical throw of the fault must be in excess of 2000 feet since the Chinle formation on the West side of the fault is found in contact with the upper Morrison on the East side. Within the area comprising the claims, the formation has been fractured and broken by a series of parallel breaks with no discernible displacement. The fractures are roughly parallel to the major fault to the East.

It is the opinion of Leo J. Coady, Consulting Mining Engineer of Grand Junction, Colorado, who prepared this application, that conditions found here are geologically and structurally similar to the Cooper-Bronson mine in White Canyon.

The Chinle formation as exposed on the claims consists of intermittent layers of sandstones and clays. At several points and for some distance along the rim, the clays are exceptionally thick. Areas of excessive bleaching of both the clays and sandstone were noted. Trees and trash carbon are quite common in the mineralized bed in both the South Workings and the North Workings.

A study of the section shown on attached map marked Exhibit "A" shows the vertical cliffs of the Wingate and the steeply dipping slopes of the Chinle formations. The depth of core drill holes required and the rugged terrain prohibits a core drilling program. It is the writer's opinion that a core drilling program is not feasible.

Therefore, in lieu of a core drilling program, Applicant is requesting a loan to drive two X-cuts as shown on the attached map marked Exhibit "A" well within the thick cover of the Wingate formation. The exploration X-cuts should show primary mineralization at vertical depths 700 feet below the surface.

This property is truly in the exploration stage and no geologic reports are available.

d). The East boundary of the claims is only one quarter of a mile off highway No. 160 at a point twelve miles North of Moab and is easily accessible. The claims are 62 miles from the Government processing plant at Monticello over an excellent black top highway. Supplies are accessible in both Moab and Monticello, Utah.

e). An ample supply of manpower is available including Indians from the Navaho Reservation.

(5).

a). Uranium and Vanadium Minerals (Pitchblende).

b). Reference is made to the attached map marked Exhibit "A" showing in plan the proposed exploration X-cuts. Also shown is a longitudinal section along the South X-cut. Also shown on the map in plan is the relation of the proposed X-cuts to the rim outcrop and the North and South underground workings. As noted above, it is proposed to drive the X-cuts in the mineralized bed with the floor of the X-cuts on the red beds. The grade of the X-cuts may vary depending entirely on the unknown dips of the red clay beds.

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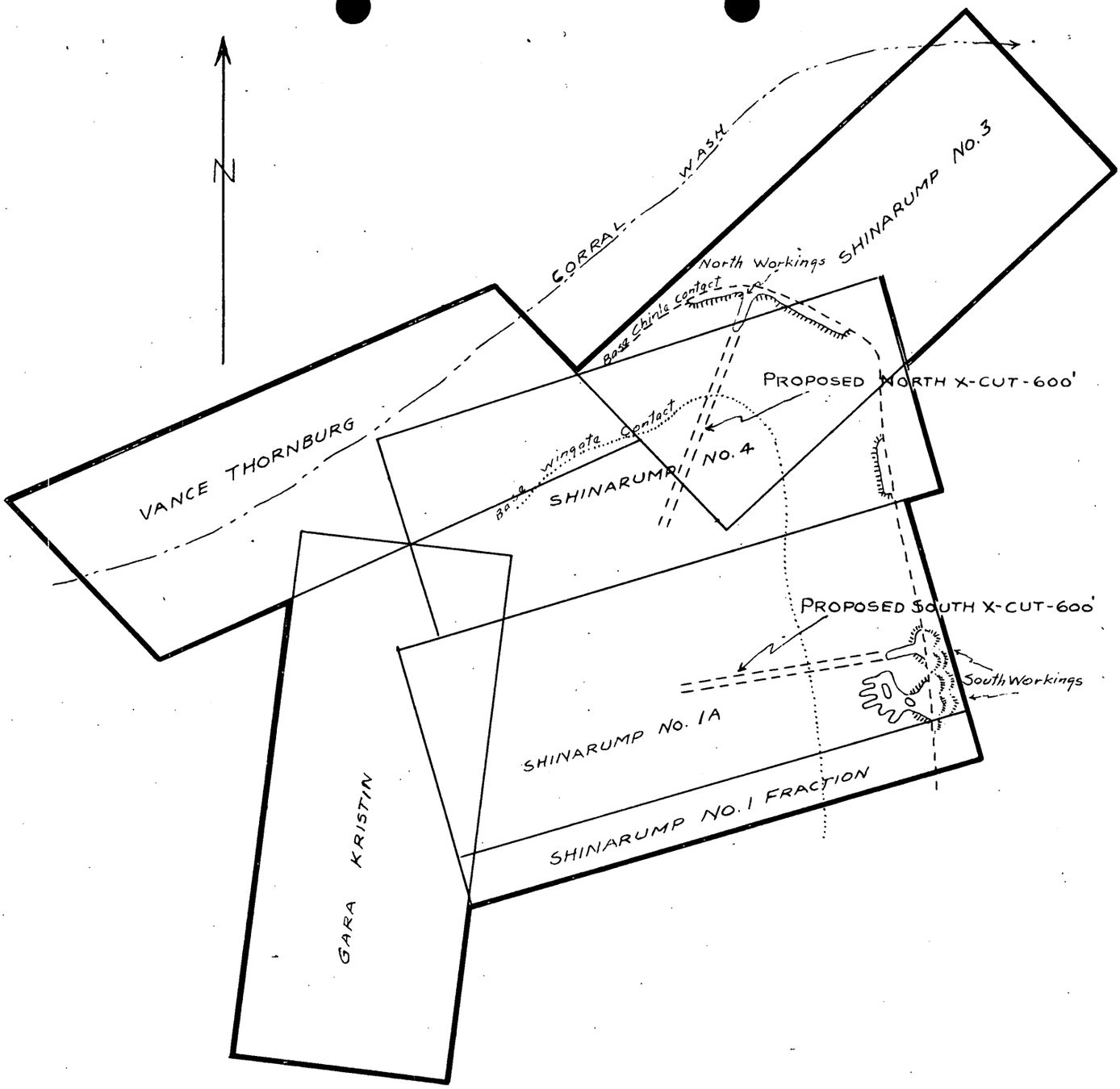
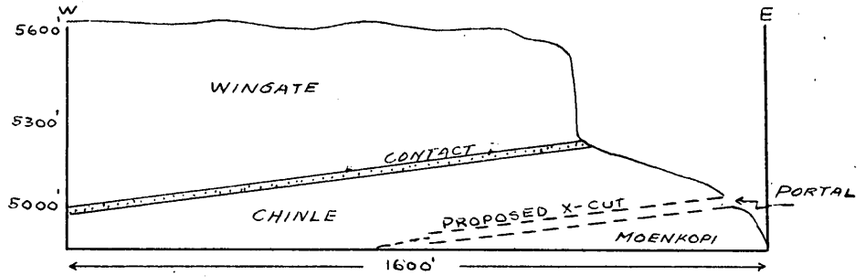
EXHIBIT "A"



- SECTION ALONG SOUTH PROPOSED X-CUT -



CLAIM MAP

SHOWING

PROPOSED EXPLORATION X-CUTS

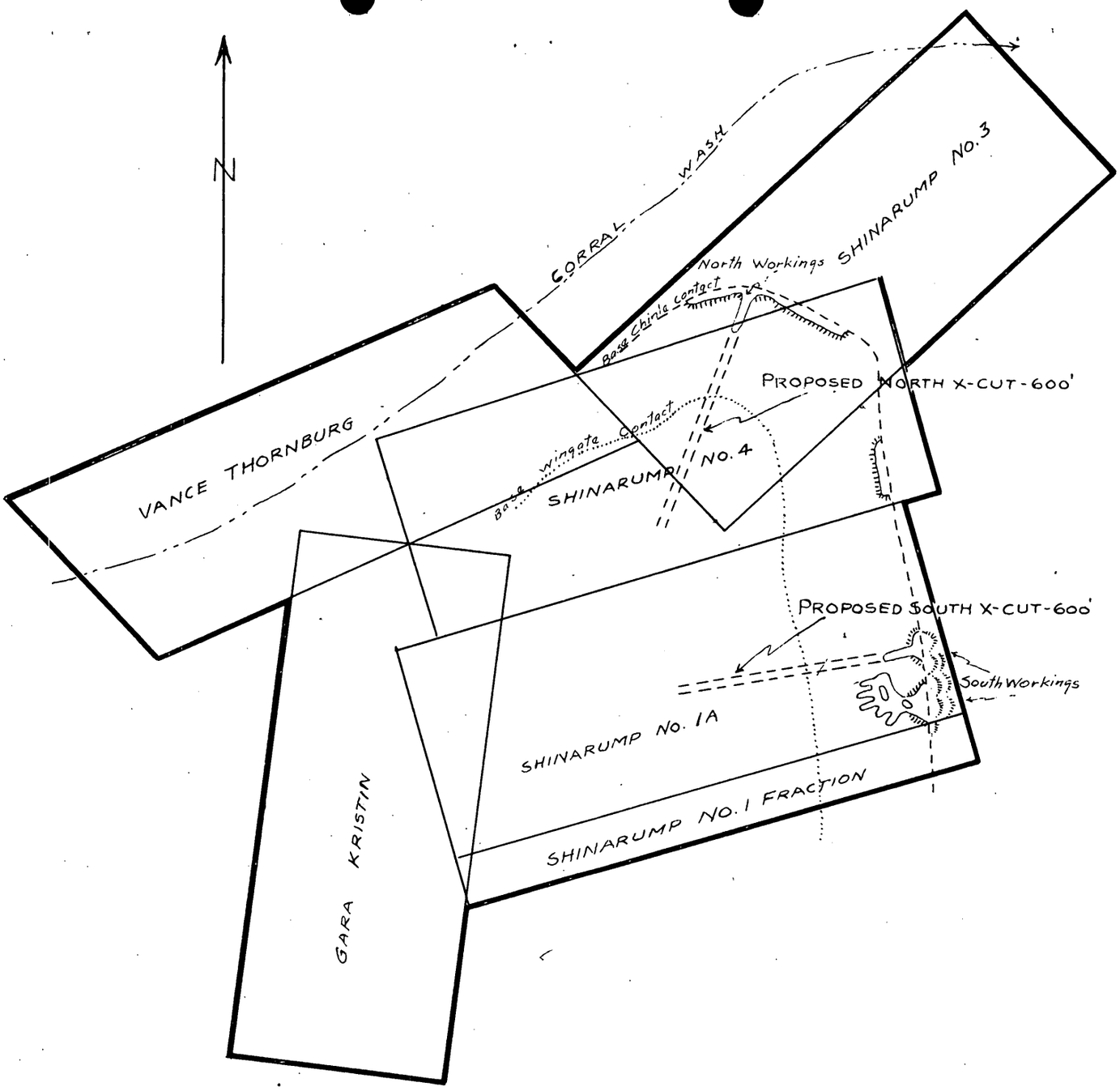
SEVEN MILE AREA CLAIMS

EXCALIBUR URANIUM CORPORATION

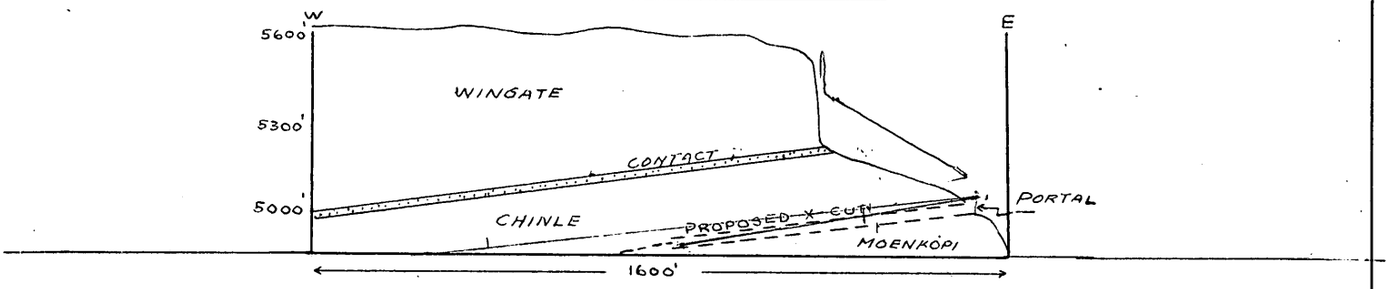
SCALE 1" = 400' 5-17-52 L. J. COADY

NORTH

EXHIBIT "A"



- SECTION ALONG SOUTH PROPOSED X-CUT -



CLAIM MAP

SHOWING

PROPOSED EXPLORATION X-CUTS

SEVEN MILE AREA CLAIMS

EXCALIBUR URANIUM CORPORATION

SCALE 1" = 400' 5-17-52 L. J. COADY

EXPLORATION

Subject: DMEA-2591
Re: Exploration Loan
Shinarump Claims, etc.
June 27, 1952

Mr. Vance Thornburg
Excalibur Uranium Corporation
U. S. Bank Building
Grand Junction, Colorado

My dear Mr. Thornburg:

This will acknowledge receipt of your application dated May 20, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2591 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2591 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

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

224 New Customhouse
Denver 2, Colorado

June 23, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Field Team, Region IV

Subject: DMEA-Application (Uranium), Excalibur Uranium Corporation, Seven Mile Area Claims, Grand County, Utah

Enclosed are three copies of the application of Excalibur Uranium Corporation for exploration work estimated to cost $40,906.00.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951

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

221 New Customhouse
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W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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. DMEA-2591
Metal or Mineral
Date Received 6-27-52
Estimated Cost
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951

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: Excalibur Uranium Corporation
U. S. Bank Building
Grand Junction
Colorado Phone 1953

(*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.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

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

(*b*) State any mine name by which the property is known.

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

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*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.

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore .....

(*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.

(*c*) The work will start within ..... days and be completed within ..... 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.

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.).

(*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.

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

(*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.

(*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.

(*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.

(*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.

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

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?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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 May 30, 1952

Excalibur Uranium Corporation
(Applicant)

By Vance Thornburg

Executive Vice-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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

- Answers to Questions - Form MF-103 -

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

(1).

a). Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado

b). Incorporated in the State of Colorado. Licensed to do business in the State of Utah.

c). President - Harry B. Combs - 127 Vine Street, Denver, Colorado.
Executive Vice-President - Vance Thornburg - Room 27, U.S. Bank Building - Grand Junction, Colo.
Secretary - Peter Dominick - 3600 South Gilpin Street, Denver, Colorado
Treasurer - John C. Mitchell - 2601 South Sheridan Blvd. Denver, Colorado.

d). Not applicable.

(3).

a). The proposed exploration will be within the boundaries of the Shinarumph No. 3, Shinarumph No. 4 and Shinarumph No. 1 A claims. However, in addition to these claims the following claims are included since they may be benefitted by the proposed exploration: Shinarump No. 1 Fraction, Vance Thornburg and Gara Kristin. Reference is made to the attached map marked Exhibit "A"., which which shows the group of claims and the proposed X-cuts.

The legal description of the claims involved in the exploration project is:

Shinarump No. 1A:

Beginning at discovery stake, thence N 70 35 E - 75 ft. to the East end center stake; thence S19-25E - 300 ft. to the SE Cor. #1; thence S70-35W - 1500 ft. to the SW Cor. #2: thence N19-25W- 300 ft. to the West end center stake; thence N19-25W - 300 ft. to the NW Cor. #3; thence N70-35E - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. to the East end center stake or the point of beginning.

Shinarump No. 1 Fraction:

The Northerly one hundred fifty feet (150) of Shinarump No. 1, as determined by a line one hundred fifty (150) feet South of and parallel with the Northerly boundary thereof.

Shinarump No. 1: Beginning at Discovery stake; thence S19-25E - 300 ft. to the SE Cor #1; thence S70-35W - 1500 ft. to the SW Cor #2; thence N19-25W - 300 ft. to the West end center stake; thence N19-25W -300 ft. to the NW Cor #3; thence N70-35E - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. back to the point of beginning.

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Shinarump No. 3: (Amended Location)

Beginning at the Discovery Stake at which this notice is posted; thence N45-30E -180 ft. to the East end center stake; thence S44-30E - 300 ft. to the SE Cor No1; thence S45-30W - 1500 ft. to the SW Cor. No 2; thence N44-30W - 300 ft. to the West end and center stake; thence N44-30W - 300 ft. to the NW Cor. #3; thence N45-30W - 1500 ft. to the NE Cor. #4; thence S44-30E - 300 back to the East end center stake.

Shinarump #4:

Beginning at the Discovery stake at which this notice posted; thence N70-35E - 115 ft. to the East end center stake; thence S19-25E - 300 ft, to the SE Cor. #1; thence S70-35W - 1500 ft. to the SW Cor #2; thence N19-25W - 300 ft. to the West end center stake; thence N19-25W - 300 ft. to the NW Cor #3; thence N70-35# - 1500 ft. to the NE Cor. #4; thence S19-25E - 300 ft. back to East end center stake.

Vance Thornburg:

Beginning from this location or discovery stake and running N64E - 270 ft. to East end center stake; thence running S44-30E - 300 ft. to the SW Cor. #1; thence S64W - 1500 ft. to SW Cor. #2; thence N44-30W - 300 ft. to West end center stake; thence N44-30W - 300 ft. to NW Cor #3; thence N64E - 1500 ft. to the NE Cor. #4; thence S44-30E - 300 ft. to the East end center stake or point of beginning.

Gara Kristen :

From the location marker Northwest 200 ft. to Northwest boundary line; thence Southwest 400 ft. to the Southwest corner; thence 600 ft. to Southeast to the Southeast corner; thence 1500 ft. Northwest to the Northeast corner; thence 600 ft. Northwest to the Northwest corner; thence 1500 ft. Southwest to the Southwest corner. This claim is located about one mile west, Northwest from the Underwood line camp on Yellow Cat Wash, Township, Range and Section unknown. Located 17th day of April 1951. Yellow Cat Mining District.

b). The claims were only recently worked and are not known by any particular mine name.

c). Applicant is a lessee of the property.

d). Will furnish later.

e). Not applicable.

f). Shinarump No. 1A, being entry No. 208598, recorded in Book 9K, at page 289, in the office of the County Recorder, of Grand County, Utah.

Shinarump No. 1, the Northerly 150 feet of this claim as determined by a line one hundred fifty (150) feet South of and parallel with the northerly boundary thereof; said Shinarump No. 1 being entry No. 208597 recorded in Book 9K. at page 288 in the office of the County Recorder of Grand County, Utah.

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Shinarump No. 3, the notice of location of said claim being recorded as entry No. 204988 in book 9J of the mining records page 235, in the office of the County Recorder of Grand County, Utah, and on which said mining claim, amended location notice has been filed of record in said office of the County Recorder in book 9K of mining records, at page 168, to which notice and amended location notice, reference is hereby made.

Shinarump No. 4, the notice of location of said claim being recorded as entry No. 205435 in Book 9J of the mining records, page 310, in the office of the County Recorder of Grand County, Utah, and on which said mining claim, amended location notice has been filed of record in said office of the County Recorder in Book 9K of mining records, at page 168, to which notice and amended location notice, reference is hereby made.

Vanes Thornburg: Book 9J, Page 171, Entry No. 208377.

Gara Kristen: Book 9J, Page 600, Entry No. 207434.

(4).

a). Reference is made to the attached map marked Exhibit "A". The map shows the 6 claims involved which might be benefitted by the proposed exploration, the North and South underground Workings, the basal contact of the Wingate and Chinle formations and the surface cuts. There is also shown a section along the proposed South X-cut. Both North and South workings as well as surface cuts have exposed intermittent mineralization in the Shinarump formation for a distance of 1400 feet. The Shinarump outcrop or the basal contact of the Chinle is shown on the map in dashed lines.

Limited mining and development work is now in progress at both the North and South workings. A total of 400 feet of development drifts have been driven at the South workings. One X-cut tunnel, 85 feet in length, has been driven at the North workings. Some 700 feet of dozer cuts expose the outcrop at the rim.

The mine workings are dry. There is no water to contend with and all mine workings are readily accessible for examination.

b). Past production of the property has amounted to 1278 tons of ore assaying 0.46% U308.

Current production amounts to approximately 15 tons of ore/dy. assaying 0.30% U308.

Ore reserves are difficult to estimate and are therefore limited to a few hundred tons.

c). As indicated on the attached map marked Exhibit "A" in dashed lines, a mineralized bed of the Shinarump formation outcrops at the rim for a distance of 1400 feet. The mineralized bed is at the base of the Chinle and rests on the red shales of the Moenkopi formation. The formation strikes N 60 W and dips 6 degrees to the northwest. Several points along the exposed outcrop where exposed by dozer cuts, are radioactive. Underground workings have discovered commercial ore.

Excalibur Uranium Corporation
Room 27, U. S. Bank Building
Grand Junction, Colorado
Phone 1953

The uranium mineral has been identified as pitchblende. Hand picked samples have assayed as high as 84% U308. Copper is present in the leached zone at the outcrop and appears to be increasing as distance back from the rim is attained. See section on attached map marked Exhibit "A".

Major faulting occurs just East of the claims striking Northwest. The vertical throw of the fault must be in excess of 2000 feet since the Chinle formation on the West side of the fault is found in contact with the upper Morrison on the East side. Within the area comprising the claims, the formation has been fractured and broken by a series of parallel breaks with no discernible displacement. The fractures are roughly parallel to the major fault to the East.

It is the opinion of Leo J. Coady, Consulting Mining Engineer of Grand Junction, Colorado, who prepared this application, that conditions found here are geologically and structurally similar to the Cooper-Bronson mine in White Canyon.

The Chinle formation as exposed on the claims consists of intermittent layers of sandstones and clays. At several points and for some distance along the rim, the clays are exceptionally thick. Areas of excessive bleaching of both the clays and sandstone were noted. Trees and trash carbon are quite common in the mineralized bed in both the South Workings and the North Workings.

A study of the section shown on attached map marked Exhibit "A" shows the vertical cliffs of the Wingate and the steeply dipping slopes of the Chinle formations. The depth of core drill holes required and the rugged terrain prohibits a core drilling program. It is the writer's opinion that a core drilling program is not feasible.

Therefore, in lieu of a core drilling program, Applicant is requesting a loan to drive two X-cuts as shown on the attached map marked Exhibit "A" well within the thick cover of the Wingate formation. The exploration X-cuts should show primary mineralization at vertical depths 700 feet below the surface.

This property is truly in the exploration stage and no geologic reports are available.

d). The East boundary of the claims is only one quarter of a mile off highway No. 160 at a point twelve miles North of Moab and is easily accessible. The claims are 62 miles from the Government processing plant at Monticello over an excellent black top highway. Supplies are accessible in both Moab and Monticello, Utah.

e). An ample supply of manpower is available including Indians from the Navaho Reservation.

(5).

a). Uranium and Vanadium Minerals (Pitchblende).

b). Reference is made to the attached map marked Exhibit "A" showing in plan the proposed exploration X-cuts. Also shown is a longitudinal section along the South X-cut. Also shown on the map in plan is the relation of the proposed X-cuts to the rim outcrop and the North and South underground workings. As noted above, it is proposed to drive the X-cuts in the mineralized bed with the floor of the X-cuts on the red beds. The grade of the X-cuts may vary depending entirely on the unknown dips of the red clay beds.

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Grand Junction, Colorado
Phone 1953

c). The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

d). Mr. Vance Thornburg, Executive Vice-President of Excalibur Uranium Corporation, will direct the operation. Mr. Lee J. Coady, Consulting Mining Engineer, will act as Consultant.

The Excalibur Uranium Corporation has been active in mining uranium on the Colorado Plateau for the past year. They have extensive uranium holdings in the Bow Knot area on the Green River in Utah. Mr. Harry B. Combs is President. While Excalibur is a comparative new-comer to the uranium field, the Officers are aggressive and have provided appreciable funds for the development of uranium potential in unknown areas of the Colorado Plateau.

Mr. Vance Thornburg, Vice-President of Excalibur Uranium Corporation, will direct the operation. Mr. Thornburg is also directing his own personal uranium mining operations. His uranium mining experience covers a period of two years. Prior to that time he conducted a successful contracting business in this area.

Mr. Thornburg is married and with his family lives at Paonia, Colorado.

Mr. A. F. Filsner will probably act as Superintendent and Engineer. He lives at Moab, Utah. At present he is Foreman in charge of the underground mining operations. His background of mining experience was gained over a period of years working as a miner, mucker and at various jobs around the uranium mines. He is an expert with a Geiger counter in determining the uranium content of underground ore faces. This is important since visually it is impossible to distinguish ore from waste underground.

(6).
a), b), c), d), e), f), g), and h):

Proposed North and South X-cuts:

Costs based on: Total footage 1200'(2-X-cuts @600' ea.) Size 6'X8'. Advance 16'/dy(both X-cuts). Time required 78 dys(3 mo.@26 work days/month.

	(26Dys) PER MONTH	3 MONTHS	
Direct labor costs			
8-Miners @ $18/dy. -	$3744	$11232	
2-Engineers (pulling cars up incline) @ $14/dy -	728	2184	
1-Truck Driver @ $12/dy -	312	936	$14352
Indirect labor costs:			
1-Supt. and Engineer (combined)@ $700/mo -	700	2100	
1-Consulting Engineer -	800	2400	
Accounting Expenses (part time @$300/mo -	300	900	
Assaying Expenses (" " " "	300	900	
Payroll taxes, etc.-(10%) -	660	1980	$ 8280

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Equipment rental and cost of supplies:	(26Dys) PER MONTH	3 MONTHS	
1- 500 cu.ft. Compressor-cost $12000, rental @ -	600	1800	
Operating expenses (gas,oil, repairs & services @ $20/dy) -	520	1560	
2- Eimco Mucking Machines (18" gauge track Cost $6400. Rental @ -	500	1500	
Operating expenses, oil, & services -	130	390	
1- Compressed Air Trammer - 18" gauge track Cost $2300. Rental at -	200	600	
1- Single Drum Gas Hoist & 700' cable, Cost $1200, Rental @ -	100	300	
Operating expenses, Gas, Oil, repairs & Services -	50	150	
2- Jumbos with Jackhammer & Shell mounted on truck, 18" gauge, Cost $6400, Rental -	400	1200	
Drill Steel, Bits, Repairs & Services -	260	780	
2- Blowers (Ventilation), Cost $1470,Rental-	150	450	
1200 ft. of 12" fan pipe @ 90¢/ft.(Salvage item) -		980	
2- 4' X 10' Air Receivers - Cost $1000, Rental @ -	100	300	
4 - 18 cu.ft. Mine Cars, 18" gauge, Cost $1600, Rental @ -	50	150	
5- Tons (12 lb. Mine Rails, Bolts, Fishplates & track spikes). Salvage item -	-	800	
2600 ft. 2" Black Iron Pipe (Air) (Salvage) -		1950	
2600 ft. 1" " " " (Water)(") -		1560	
1- Pickup Truck (3/4 Ton), Haul water & Supplies Cost $1800, Rental @ -	150	450	
Operating Expenses, Gas, Oil, Repairs & Services -	208	624	
Carbide, Powder, Caps & Fuse -	700	2100	
20- 16 Ft. Mine Stulls -	-	80	
2000- Board Feet of 2" Mine Plank (random lengths) -	-	200	
300- 4" X 6" Track Ties (4 ft. long)	-	150	
Supply of small mine tools (expendable) -	-	200	$18274
Total Estimated Costs -			$40906
Estimated Cost per foot -			$34.08

Applicant's Share (10% of $40906) - $4090.

Although it is not anticipated, should water be encountered in the South X-cut, a contingency allowance of $3000 is requested to provide pumping and necessary water removing facilities.

1 - Tool shed and storage building will be required. Applicant will furnish this building at no cost to the project.

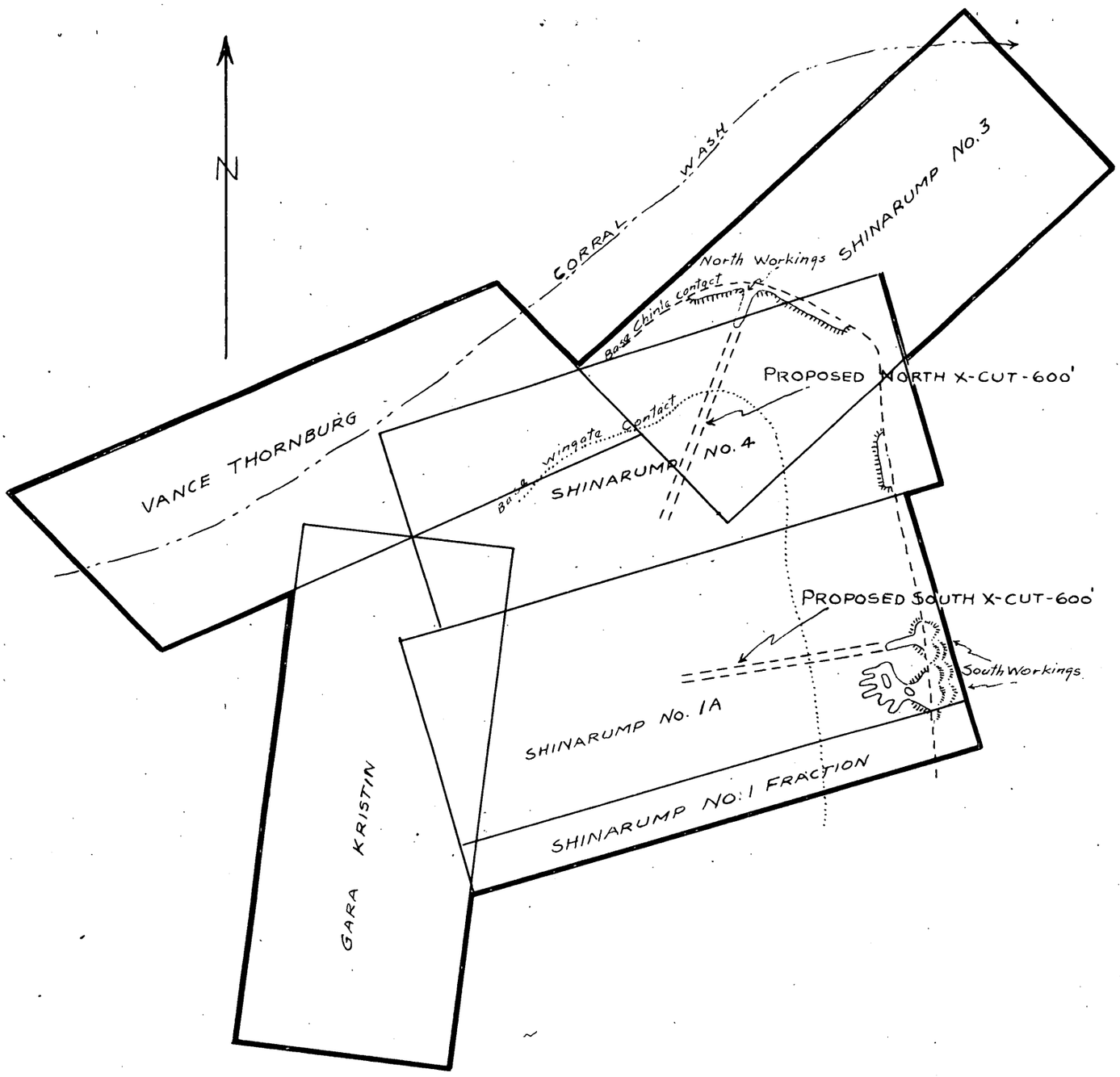
(7).

a). Applicant is prepared to furnish his share of the cost of the project. As calculated above, this amounts to $4090.00.

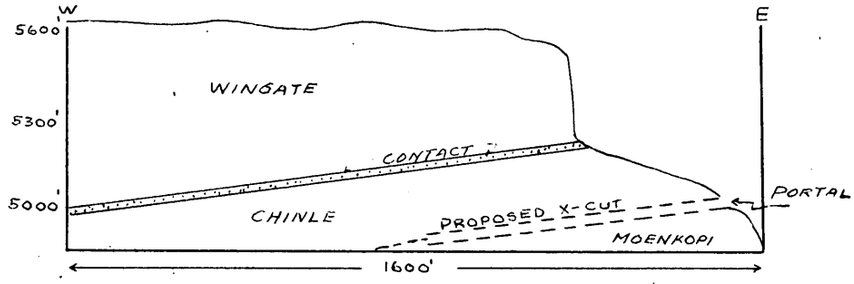
b). Applicant is prepared and if so requested, will deposit his share ($4090) of the project in any bank designated by Defense Minerals Exploration Administration.

NORTH

EXHIBIT "A"



- SECTION ALONG SOUTH PROPOSED X-CUT -



CLAIM MAP

SHOWING

PROPOSED EXPLORATION X-CUTS

SEVEN MILE AREA CLAIMS

EXCALIBUR URANIUM CORPORATION

SCALE 1" = 400' 5-17-52 L. J. COADY

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

E. 157 HOWARD ST.
Spokane 8, Wash.

OFFICIAL BUSINESS

PAYMENT OF POSTAGE, $300
(PMGC)

SPOKANE
JUN 23
6:00PM
1952
WASH.

2

Chairman, Operating Committee

Defense Minerals Exploration Administration

Department of the Interior

Washington 25, D. C.