700

FILE COPY
Surname:
Murphy
Gris
Gehan
Kiilsgaard
Selbage
Johnson

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

FEB 27 1956

Mr. Ken Garff, President
Treasure Uranium and Resources, Inc.
531 South State Street
Salt Lake City, Utah

Re: Docket No. DMEA-4117 (Uranium)
Jean and La Preal groups
San Juan County, Utah

Dear Mr. Garff:

Reference is made to your application for Government aid in an exploration project on the above-named groups of claims.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing significant ore reserves on your property is not sufficiently promising to justify Government participation in an exploration program. We regret to advise you that, under these circumstances, your application for exploration assistance is denied. However, this denial is made without prejudice. If future limited drilling on your property reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

O. O. Mitchell

Administrator

FMMurphy/izm 2-21-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641; THKiilsgaard, Rm. 5224; JOHosted, Rm. 3210, GSA

R.C.K.

700

Murphy
Ellis

February 21, 1956

SUMMARY OF PROPOSED PROJECT

Object: Denial of application for exploration aid.

Docket No.: DMEA-4117

Commodity: Uranium

Applicant: Treasure Uranium & Resources, Inc.
Mr. Ken Garff, President
531 South State Street
Salt Lake City, Utah

Property: Purchased from Pathfinder Uranium Co., 43 claims: Joan Nos. 6 through 32, 37, 42, 45, 47, 24A, 25A, 36, 38, and 27A, La Preal Nos. 1 through 9, situated in secs. 21, 27, 28, 33, T. 30 S., R. 24 E., SLM, San Juan County, Utah

Date of Application: January 5, 1956

Amount of Application: $71,530.00

Work Proposed and Costs:

Stage I

11 holes, 1,200 feet plug drilling and 60 feet core drilling in each hole @ $3975.00/hole	$43,725.00	
Probing holes and logging	1,155.00	
Engineering and geology	900.00	
30 analyses of samples for U_3O_8 and $CaCO_3$ @ $5.00 each sample	150.00	
Bulldozer roads 1,500 feet	600.00	
Stage II Cost Estimate	25,000.00	
TOTAL		$71,530.00

Washington wrote Field Team: January 31, 1956, suggesting denial without prejudice, if Field Team had no recent knowledge that the claim area was more favorable than was indicated in the case of DMEA-3424, Almar Minerals (denied after field examination), and DMEA-4131, Urado Uranium Corporation. In regard to the latter application, relating to adjacent ground, the Grand Junction office has recommended that it be denied without a field examination. Washington commodity members and this Division concurred in their recommendation. However, the USGS, member recommended denial without prejudice.

Rare and Miscellaneous Metals Division

The Field Team reported that as no new information was available which would indicate the area was more favorable, it recommended that the Application DMEA-4117 be denied.

Commodity Members' Comments: (excerpts)

USGS, W. P. Williams, January 20, 1956:

The subject claims were covered under DMEA-3646, Pathfinder Uranium Company. The claims were split, the western portion was sold to the Applicant and the eastern portion transferred under a working agreement to Urado Uranium Company, DMEA-4131. Urado drilled 5 holes on their property, none penetrated ore, one hole was mineralized.

Uranium deposits in lower Chinle sands are found in filled channels or scours. Such structures are narrow, elongate, and sinuous. Extremely fortunate circumstances would have to be operative from at least two aspects for any of the few wide-spaced proposed holes to penetrate a mineralized area in a channel structure. Conditions on the property are such that chance alone will govern the drill hole pattern and drilling results .... especially in the initial holes.

Proximity of a property to large productive ore bodies in the Lisbon Valley district is not in itself sufficient justification for approval of costly, deep, exploration drilling. Several drilling projects, some with DMEA participation, near producing mines in the Lisbon Valley area have been failures.

I do not recommend that DMEA participate in exploration on the subject property at this time. However, if private drilling by the Applicant or others on nearby property indicate that favorable Chinle sands and geologic structure exist on the property then DMEA assistance could be considered.

USBM, John E. Crawford, January 13, 1956:

Evidence of basic prospecting work on subject claims should be provided when consideration is asked for exploration drilling at a cost of approximately $4,000 per hole.

Inasmuch as Docket No.-4117 lacks the same essential information lacking in Docket No.-3646, outright denial of the application is recommended.

Rare & Miscellaneous Metals Division, F. M. Murphy, February 21, 1956:

This Division recommends that the subject application be denied without prejudice for the same reasons as are outlined by the USGS commodity member.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

FEB 20 1956

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

RECEIVED
FEB 20 1956

February 17, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4117 (Uranium), Treasure Uranium and Resources, Inc., Joan, Ilena, and LaPreal groups, San Juan County, Utah

This responds to your letter of January 31, 1956 on the subject docket.

Enclosed are the original and three copies of additional information obtained by members of the Grand Junction office. They conclude that the chances of finding ore bodies large enough to mine, at a depth of 1200 feet, are not likely, and they recommend that the application be denied without a field examination. We concur in this recommendation.

W. M. Traver

W. M. Traver

Enclosures

MINERAL DEPOSITS
DIVISION
RECEIVED
FEB 15 1956
U.S.
GEOLOGICAL SURVEY
DENVER, COLORADO

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

DMEA
Date Rec'd.
FEB 17 1956

BUREAU OF MINES
Denver, Colorado

February 14, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman EMH

From: J. William Hasler
M. H. Salsbury

Subject: DMEA docket 4117 (Uranium) Treasure Uranium and Resources, Inc., Joan, Illena, Lapreal groups, San Juan County, Utah

The Treasure Uranium and Resources, Inc., have applied to the Defense Minerals Exploration Administration for assistance in exploring for uranium on the Joan, Illena, Lapreal groups of claims, San Juan County, Utah.

In response to your request for an appraisal regarding the necessity for a field examination, we have obtained the following information: Mr. C. H. Bowen, supervising geologist of the Big Indian District for the Atomic Energy Commission, was consulted regarding the advisability of the program as well as members of the Mining Division. They have indicated that there has been considerable private drilling down dip on the Lisbon Valley anticline near the vicinity of the subject group of claims and it has been past experience, as a result of this drilling, that the mineralization found was small and scattered, and that the depths to which these size of ore bodies lie are too deep to adequately explore.

The drilling done by the Urado Uranium Company on the same group of claims indicates only small amounts of carbon and, possibly, favorable sandstone at the base of the Chinle formation, but none of the holes delineated any well-defined channel.

It is concluded that the chances of finding ore bodies large enough to mine, over a distance of 1200 feet vertically, are not likely, and it is recommended that the application be denied without a field examination.

It may also be suggested that the company do further drilling on its own account and if favorable results are obtained, the company may be allowed to reapply for a DMEA loan.

J. William Hasler
J. William Hasler,
U. S. Geological Survey

M. H. Salsbury
M. H. Salsbury
U. S. Bureau of Mines

JWH/mlr

IN REPLY REFER TO:

MINERAL RECORDS
FEB 15 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
Date Rec'd.
FEB 17 1956

P. O. Box 360
Grand Junction, Colorado

GEOLOGICAL SURVEY
DENVER, COLORADO
RECEIVED
FEB 20 1956

February 14, 1956

BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman E.NH

From: J. William Hasler
M. H. Salsbury

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J. William Hasler,
U. S. Geological Survey

M. H. Salsbury
M. H. Salsbury
U. S. Bureau of Mines

JWH/mlr

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

February 14, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: J. William Hasler
M. H. Salsbury

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J. William Hasler
J. William Hasler,
U. S. Geological Survey

M. H. Salsbury
M. H. Salsbury
U. S. Bureau of Mines

JWH/mlr

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

RECEIVED
FEB 20 1956

February 17, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4117 (Uranium), Treasure Uranium and Resources, Inc., Joan, Ilena, and LaPreal groups, San Juan County, Utah

This responds to your letter of January 31, 1956 on the subject docket.

Enclosed are the original and three copies of additional information obtained by members of the Grand Junction office. They conclude that the chances of finding ore bodies large enough to mine, at a depth of 1200 feet, are not likely, and they recommend that the application be denied without a field examination. We concur in this recommendation.

W. M. TRAVER,

W. M. Traver

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
Date Rec'd.
FEB 17 1956

P. O. Box 300
Grand Junction, Colorado

FEB 15 1956

GEOLOGICAL SURVEY
DENVER, COLORADO

February 14, 1956

BUREAU OF MINES
Denver, Colorado

RECEIVED
FEB 20 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman EMH

From: J. William Hasler
M. H. Salsbury

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It may also be suggested that the company do further drilling on its own account and if favorable results are obtained, the company may be allowed to reapply for a DMEA loan.

J. William Hasler
J. William Hasler,
U. S. Geological Survey

M. H. Salsbury
M. H. Salsbury
U. S. Bureau of Mines

JWH/mlr

700

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

JAN 31 1956

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4117 (Uranium)
Treasure Uranium & Resources, Inc.
Jones, Klenk, and La Preal groups
San Juan County, Utah

Dear Mr. Traver:

Enclosed are copies of memoranda, dated January 13 and 20, 1956, from J. E. Crawford, USBM, and W. P. Williams, USGS, respectively, relating to the subject application.

The above-docketed application is similar to application DMEA-3646, which it replaces, in that it lacks essential information to justify the drilling program outlined. No target other than the general Chinle formation is given; therefore, the first stage drilling proposed in the subject application might be classed as prospecting.

Without making a field examination, will you kindly advise this office regarding any information available to you which might indicate that a known favorable Chinle channel could be projected into any of the captioned groups. If there are no such channels, then, with the Field Team's concurrence, we will recommend denial of the subject application, without prejudice. It is possible that future drilling by the Applicant might indicate the property has possibilities that would justify the cost of the deep drilling proposed. In this case, a new application should receive consideration.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Curtis
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

FMMurphy/gla 1-25-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy

Surname copy

700

Murphy
Selfridge
Kilsgaard
Mottendorf

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

JAN 31 1956

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

No. 5414M

Re: Docket No. DMEA-4117 (Uranium)
Treasure Uranium & Resources, Inc.
Joan, Thom, and La Preal groups
San Juan County, Utah

Dear Mr. Traver:

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Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (243)

Enclosures

FMMurphy/gla 1-25-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy

APPROVED:

/s/ Robert W. Geehan (243)
Member, Bureau of Mines

Thor H. Kiilsgaard (243)
Member, Geological Survey

R.S.

Surname copy

700

Murphy
Ellis
Johnson
McKinney

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

JAN 31 1956

Mr. Ken Garff, President
Treasure Uranium and Resources, Inc.
531 South State Street
Salt Lake City, Utah

Re: Docket No. DMEA-4117 (Uranium)
Joan, ~~Elena~~, and LaPreal groups
San Juan County, Utah

Dear Mr. Garff:

Your above-docketed application has been reviewed by this Division.

We have requested information from our Field Team relating to the area in which your claims are situated. On receipt of this information we will advise you of any further action concerning your application.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla
1-30-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700, Mr. Murphy
DMEA Field Team, Region III (2)

R.C.S.

1-20-56 lgn

IN REPLY REFER TO:

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

RECEIVED
JAN 20 1956

January 20, 1956

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of application, DMEA 4117, Treasure Uranium and Resources, Inc., Joan, et al. claims, Big Indian Wash, San Juan County, Utah.

The above-referenced claims were covered under DMEA 3646, Pathfinder Uranium Company. The Pathfinder Company then transferred the claims to Treasure Uranium, Inc., who in turn resubmitted the claims in the present application.

Part of the original Pathfinder property, a block of claims adjoining the applicant's claims on the east, was transferred to Urado Uranium Company. Urado Uranium Company drilled five holes on their property, and the applicant states the results of the drilling are available to him. From a brief description of the holes in the application none penetrated ore; one hole was mineralized.

Average depth of the holes was 1,160 feet. Farther west, on the applicant's property, the drilling would be deeper because the beds dip west; and the geologic section becomes progressively thicker westward farther from the crest of the Lisbon Valley anticline.

Uranium ore deposits in lower Chinle sands are found in filled channels or scours. Such structures are narrow, elongate and sinuous. Extremely fortunate circumstances would have to be operative from at least two aspects for any of the few, wide-spaced, proposed holes to penetrate a mineralized area in a channel structure. Conditions on the property are such that chance alone will govern the drill hole pattern and drilling results--especially in the initial holes.

Proximity of a property to large and productive ore bodies in the Lisbon Valley district is not in itself sufficient justification for approval of costly, deep, exploration drilling. Several drilling projects, some with DMEA participation, near producing mines in the Lisbon Valley area have been failures.

I do not recommend that DMEA participate in exploration on the subject property at this time. If the applicant can demonstrate by results of preliminary exploration work either on or near the property that favorable Chinle sands and geologic structures exist on the property then DMEA assistance could be reconsidered.

It would be advisable to ask the Field Team for their appraisal of the application as they may have knowledge of recent exploration work near the property, or other information which I do not have.

W P Williams

W. P. Williams

IN REPLY REFER TO:

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

RECEIVED
JAN 20 1956

January 20, 1956

Memorandum

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It would be advisable to ask the Field Team for their appraisal of the application as they may have knowledge of recent exploration work near the property, or other information which I do not have.

W. P. Williams

WPWilliams:iml
G-1/20/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)✓
Docket file
J. E. Crawford, 3641
J. O. Kested, 3210

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

1-16-56 dgm

January 13, 1956

RECEIVED
JAN 13 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA Docket 4117, Treasure Uranium and Resources, Inc., Joan, Ilena and Lapreal Groups, San Juan County, Utah

I have reviewed the attached application of Treasure Uranium and Resources, Inc., DMEA Docket 4117, dated January 5 and received in this office January 11. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

Treasure Uranium and Resources, Inc., requests Federal participation on 43 unpatented mining claims located in the central part of Big Indian Wash, San Juan County, Utah. The proposed exploration project consists of a two-stage drilling program. Stage One would include 11 holes spaced approximately 1,000 to 1,500 feet apart at a cost of $46,530. Stage Two would include 6 offset holes of from 250 to 500 feet distance at a cost of $25,000. The total estimated cost of the exploration project is $71,530.

The application for DMEA 4117 is for the same property for which Pathfinder Uranium Co. requested assistance under DMEA Docket 3646 approximately one year ago. Considerable correspondence relative to DMEA Docket 3646 was carried on between DMEA and Pathfinder throughout 1955 in an effort to get much essential information which was lacking in that docket. A letter from DMEA on November 30, 1955, to Pathfinder Uranium Co. culminating DMEA 3646 indicated that a change of applicant, as requested, would be considered under a new docket number, and DMEA also pointed out that the desired essential data should be included in the subsequent application.

Evidence of basic prospecting work on subject claims should be provided when consideration is asked for exploration work at approximately $4,000 per hole.

Inasmuch as Docket 4117 lacks the same essential information lacking in Docket 3646, outright denial of the application is recommended.

John E. Crawford

John E. Crawford

Attachment

January 10, 1956

Treasure Uranium and Resources, Inc.
531 South State Street
Salt Lake City, Utah

Subject: DMEA 4117
Re: Exploration Assistance

Gentlemen:

The receipt of your application dated January 5, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4117 and referred to the Rare and Miscellaneous Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

2/10/56 [illegible]

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

RECEIVED
FEB - 9 1956

February 6, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. W. Hasler (With brochure)
J. F. Shaw

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4117 (Uranium), Treasure Uranium and Resources, Inc., Joan, Ilena, and La Preal groups, San Juan County, Utah

Enclosed is the Bureau of Mines' copy of the subject application, a copy of a letter from the Chairman of the Operating Committee, and attached memoranda of review by members of the Uranium Commodity Committee.

Without making a field examination, will you kindly advise this office regarding any information available to you which might indicate that a known favorable Chinle channel could be projected into any of the captioned groups.

Will you please discuss this application with the Atomic Energy Commission and the Bureau of Mines' representative in the Grand Junction office and forward this office eight copies of your joint recommendations concerning the advisability of making a field examination on this property.

It is possible that future drilling by the applicant might indicate that the property has possibilities that would justify the cost of the deep drilling proposed, in which case a new application would receive proper consideration.

When the enclosed brochure has served its purpose, will you please return it to this office since it is the only copy we have.

W. M. TRAVER,

W. M. Traver

HMC:ab
cc: Chair. Op. Comm. (2)
Harshman
Docket 4117
Enclosures
Chron.

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

RECEIVED
FEB - 9 1956

February 6, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. W. Haeler (With brochure)
J. F. Shaw

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4117 (Uranium), Treasure Uranium and Resources, Inc., Joan, Ilena, and La Preal groups, San Juan County, Utah

Enclosed is the Bureau of Mines' copy of the subject application, a copy of a letter from the Chairman of the Operating Committee, and attached memoranda of review by members of the Uranium Commodity Committee.

Without making a field examination, will you kindly advise this office regarding any information available to you which might indicate that a known favorable Chinle channel could be projected into any of the captioned groups.

Will you please discuss this application with the Atomic Energy Commission and the Bureau of Mines' representative in the Grand Junction office and forward this office eight copies of your joint recommendations concerning the advisability of making a field examination on this property.

It is possible that future drilling by the applicant might indicate that the property has possibilities that would justify the cost of the deep drilling proposed, in which case a new application would receive proper consideration.

When the enclosed brochure has served its purpose, will you please return it to this office since it is the only copy we have.

HMC:ab
cc: Chair. Op. Comm. (2)
Harshman
Docket 4117
Enclosures
Chron.

W. M. TRAVER,

W. M. Traver

Treasure
URANIUM AND RESOURCES, INC.
531 SOUTH STATE STREET — SALT LAKE CITY 11, UTAH

January 5,1956

Mr.Ernest Wm.Ellis,Chief
Rare & Miscellaneous Metals Division
Defense Minerals Exploration Administration
U.S.Department of the Interior
Washington,25,D.C.

Dear Sir:

Re:Docket No.DMEA-~~3646~~ 4117 (Uranium)
Joan,~~Flama~~,Lapreal Groups,San
Juan County,Utah

Attached application for DMEA funds is intended to substitute for previous application made for the same property by Pathfinder Uranium Co. Your previous advices have indicated that the previous application is being held in suspense pending receipt of the attached application from present owners.

Delay has been encountered in submitting this pending some decision on the part of Urado Uranium Corporation as to a joint application embodying both the area of a leasehold adjacent to the property covered by the attached application. It now appears that Urado Uranium Corporation is not interested in a joint application and we have therefore undertaken to process the enclosed covering only ground owned and held by this corporation. May we then have this application considered by substitution.

I am not informed as to the decision of Urado Uranium Corporation applying for loan on their leasehold but if they so intend it would be entirely independent of that attached and would not cover the same properties.

Very truly yours,

R.H.Robinson

Managing Director

RECEIVED
JAN 9 1956

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JAN 9 1956

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 4117
Metal or Mineral Uranium
Date Received 1-9-56
Estimated Cost ~~$46,530.00~~ $77,530
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: Treasure Uranium and Resources, Inc.
531 South State Street
Salt Lake City, Utah

(*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 attached sheet.

(*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 See attached sheet

(*b*) State any mine name by which the property is known. none

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

(*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 attached sheet.

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

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

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. none

(*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. maps, sketches, reports attached.

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.
For information on category No. 4, see attached sheet.

16—66551-1

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

(*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. See attached sheet.

(*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?

[x] 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 Jan 5, 1956

Treasure Uranium and Resources, Inc.
(Applicant)

By Ken Garff
Ken Garff, President

Attest: David G. Robinson
Secretary

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

EXHIBIT A
Attached To And Forming A Part Of
Form MF103 Application of
Treasure Uranium & Resources, Inc. for DMEA Loan

1. (b) A corporation organized under and pursuant to the laws of the State of Nevada, qualified to do business in Utah, with principal offices at 531 South State, Salt Lake City, Utah.

(c) Ken Garff, President. (Background) Organized and directed Ken Garff Company, distributor of Oldsmobile Automobiles in Salt Lake City for past score of years; organized and directed Ken Garff Sales Co., operators of the largest group of trailer sales lots in the western states; several years experience in mining operations in the United States and Mexico.
Address: 1770 Laird Avenue, Salt Lake City, Utah

W. H. H. Cranmer, Vice President. (Background) President and directing head of New Park Mining Company, successfully operating mines in the Park City, Utah district for a score of years past; also president and directing head of Lucky Mc Uranium Mining Company, producing uranium from mines in Wyoming; also directing head of several other companies operating in the intermountain states.
Address: 3607 Canyon Way, Salt Lake City, Utah

David A. Robinson, Secretary. (Background) Practicing attorney with a score of years experience in practice of law in Utah; also identified with mining companies and mining operations for past score of years.
Address: 1029 Barbara Place, Salt Lake City, Utah

Raymond C. Wilson, Treasurer. (Background) Retired senior vice president of First Security Bank of Utah; also identified with Utah mining companies as director and officer of several successful mining concerns for past several years.
Address: 953 South 12th East, Salt Lake City, Utah

3. (a) Property to be explored or benefited by exploration under control of applicant consists of 43 unpatented mining claims located in the central part of Big Indian Wash, San Juan County, Utah, all as more particularly described under 3 (f) below.

(c, d and e) Property was acquired by purchase from Pathfinder Uranium Company and has been fully paid for.

BIG INDIAN WASH, SAN JUAN COUNTY, UTAH

Joan # 6	28	30S	24E	10/14/53	37	104
" # 7	"	"	"	"	"	105
" # 8	"	"	"	"	"	106
" # 9	"	"	"	"	"	107

Joan	#10		28	30S	24E	10/14/53	37	108
"	#11		"	"	"	"	"	109
"	#12		"	"	"	"	"	110
"	#13		"	"	"	"	"	111
"	#14		27 & 28	"	"	"	"	112
"	#15	E½ 28, W½	27	"	"	10/18/53	"	190
"	#16	E½	28	"	"	"	"	190
"	#17	"	"	"	"	"	"	191
"	#18	"	"	"	"	10/14/53	"	113
"	#19		"	"	"	"	"	114
"	#20		"	"	"	"	"	115
"	#21	W½	"	"	"	"	"	116
"	#22	"	"	"	"	"	"	117
"	#23	"	"	"	"	"	"	118
"	#24		"	"	"	"	"	119
"	#25		"	"	"	"	"	120
"	#26		"	"	"	"	"	121
"	#27		"	"	"	"	"	122
"	#28		"	"	"	"	"	123
"	#29	NE¼	"	"	"	10/18/53	"	191
"	#30	"	"	"	"	"	"	192
"	#31	"	"	"	"	"	"	192
"	#32	NE¼ 28, NW¼	27	"	"	"	"	193
"	#37		27 & 28	"	"	"	"	294
"	#42	S½	21	"	"	"	"	294
"	#45	Near Center of	"	"	"	"	"	295
"	#47	N½	"	"	"	"	"	295
"	#24A	SW¼	21	30S	24E	2/21/55	277	208
		NW¼	28	30S	24E			
"	#25A	"	"	"	"	"	"	"
"	#36		21 & 28	30S	24E	5/8/54	93	109
"	#38		"	"	"	"	"	"
"	#27A	NW¼	28	30S	24E	3/11/55	283	115
LaPreal	# 1			30S	24E	10/14/53	37	136
"	# 2	NW¼	33	"	"	"	"	137
"	# 3	"	"	"	"	"	"	138
"	# 4	N½	"	"	"	"	"	139
"	# 5	"	"	"	"	"	"	135
"	# 6	"	"	"	"	"	"	140
"	# 7	NE¼	"	"	"	"	"	141
"	# 8	"	"	"	"	"	"	142
"	# 9	NW¼ 34, NE¼	"	"	"	"	"	143

All transferred to Treasure Uranium & Resources, Inc., which transfer was duly recorded under Entry No. P5745 on November 17, 1955 in Book 82 Page 25 on the books and records of the San Juan County Recorder at Monticello, Utah

4. (a) Property description. Surveying and geologic mapping was conducted by Pathfinder Uranium Co., prior to acquisition by Treasure Uranium & Resources, Inc.

(c) Please refer to attached geologic report on the Joan, Ilena and LaPreal claims by Richard A. Teichman, Jr.

Since the attached report from Richard A. Teichman, Jr. was written, Urado Uranium Co. has drilled five holes in Sections 26 and 27,

T 30 S, R 24 E, formerly held by Pathfinder Uranium Co. The holes averaged 1,160 feet in depth, but only BPI # 4 encountered uranium mineralization. BPI # 1, located about 700 feet from the east property line of Treasure Uranium, encountered 75' of "Mossback" sandstone containing abundant sulfides, asphalt and carbonaceous material. Holes BPI # 2 and 3 encountered about 61 feet of "Mossback" sandstone having some carbonaceous material and pyrite. Hole BPI # 5 was not deep enough to cut the one bearing sandstone. Information on the holes, that includes lithologic and radioactivity logs, have been made available to Treasure Uranium and Resources, Inc.

Drilling in this part of the Big Indian district has been limited and has not been systematic because of the prohibitive cost. It is felt that this part of the district still remains untested and should be drilled. The property is well located in a region of some of the larger uranium producing properties in the United States and while exploration is costly the rewards for discovery are proportionately high.

Exploration of the Joan and LaPreal claims held by Treasure Uranium and Resources, Inc., as outlined in the D M E A application, calls for two stages, the second stage contingent on the success of the first.

Stage 1. Drill eleven holes through the Mossback spaced approximately 1,000 to 1,500 feet apart. This drilling program, if completed, will explore approximately 350 acres in a wide-spaced drilling net. Drilling depths will average 1,250 feet. Cost of Stage 1 would be $46,530.00.

Stage 2. If uranium is encountered in commercial quantities in any of the holes of Stage 1, offset drilling of from 250 to 500 feet would be warranted. There is no way of knowing how many holes will encounter uranium, if any, but six holes averaging 1,250 feet in depth may be sufficient. Cost of Stage 2 would be approximately $25,000.00.

(d) Access roads to the area are good to excellent, passable throughout the year and presently carry considerable traffic from uranium ore production. Moab, Utah is the principal shipping and supply point of the region, with Monticello, Utah within short distance also.

(e) Materials and supplies are available from well stocked warehouses at Moab and Monticello. Water for drilling can be obtained from several sources in the North end of the Big Indian Wash area. Power must be supplied by a diesel generator.

5. (b) See attached map and sketch of the property. As a first stage eleven holes are proposed for the drilling program. The lines on which the holes will be drilled are approximately 1,500 feet apart and trend N 60° East. The eleven drill holes planned are in Sections 28 and 33, T 30 S, R 24 E, Salt Lake Base Meridian. Exact locations are subject to change, depending on topography.

Total footage of the first stage is 13,750 feet for plugged hole and core drilling. (See attached map for locations.)

If uranium is encountered in any of the holes drilling in stage 1 then offset drilling of from $250' to 500' around favorable holes would be warranted.

(c) Actual work will be begun shortly after approval of the application for D M E A funds.

(d) Background of Company. The company was formed recently as a merger of a score of uranium properties and is headed by competent businessmen of wide and successful experience in mining, finance and business. It is presently engaged in active exploration for uranium on properties in New Mexico, Wyoming, Canada and by this application seeks to initiate a program of exploration on some of its Utah properties.

Work will be immediately in charge of John F. Powers, geologist for the company. He is a graduate from the University of Utah and has worked as a consultant for the U. S. Geological Survey and a private consultant since 1951. This work has been largely in the uranium field.

6. (a) Estimate of Costs: The following bids for drilling were received by Treasure Uranium and Resources, Inc.:

Kostyk Drilling Co., Moab, Utah. $3.25/foot for drilling to 1,200 feet, $80.00 for the first twenty foot section of core, $100.00 for the second section and $120.00 for the third section.

Moab Drilling Co., Moab, Utah. $4.00/foot for core and plug hole drilling down to 1,250 feet regardless of number of feet of core.

Utah Drilling Co., Moab, Utah. Plugged hole drilling to 1,200 feet @ $3.15/foot. Coring at approximately 1,200 foot depth @ $3.75/foot.

The lowest bid on drilling received is by Utah Drilling Co. and for a 1,250 foot hole (1,200 feet plugged hole drilling and 60 feet of core) is approximately $3,975.00 per hole.

11 holes @ $3,975.00/hole	$43,725.00

Probing of Holes.

11 locations @ $40.00	440.00
11 logs @ $15.00	165.00
13,750 feet of probing @ $.04/ft	550.00

(b) Charges for engineering and geology	900.00

(c-d-e-f) None.

(g) Sampling and Assaying.

30 determinations for uranium and lime @ $5.00	150.00

Bulldozer roads 1,500 feet	600.00
TOTAL	$46,530.00

Cost of Stage 2 is approximately $25,000.00.

(h) None.

7. (a) Treasure Uranium and Resources, Inc. is prepared to furnish its share of the costs in accordance with existing D M E A regulations.

(b) Treasure Uranium and Resources, Inc. is prepared to furnish its share of the costs in cash.

TREASURE URANIUM AND RESOURCES, INC.

By Ken Sodaro
President

ATTEST:
David A. Robinson
Secretary

DATED Jan 5, 1956

GEOLOGIC REPORT ON THE

JOAN, ILENA AND LA PREAL CLAIMS,

SAN JUAN CO., UTAH.

BY RICHARD A. TEICHMAN, JR.

(Attached to and forming a part of
Original copy of application of
Treasure Uranium & Resources,Inc.
Need not be returned)

INTRODUCTION:

This report has been prepared at the request of Mr. Clark L. Wilson of Salt Lake City, Utah, and is designed to assess the uranium possibilities of the Joan, La Preal and Ilena groups of claims located in the southern part of Big Indian Wash, San Juan County, Utah.

Approximately 10 square miles were covered during the course of the investigation during the early part of October, 1954.

Mr. Teichman holds a Masters degree in Geology from Boston University, Boston, Mass., From June 1, 1952, to May 1, 1954, he was employed by the United States Atomic Energy Commission as a geologist. From July 1, 1953, until May 1, 1954, he was assigned to the Big Indian Wash area as Supervising Geologist for the United States Atomic Energy Commission, and was in charge of reconnaissance and drilling programs.

The claims under discussion are located in the southern part of Big Indian Wash about 6 miles east of U S Highway 160.

Big Indian Wash begins 9 miles south of the town of La Sal, Utah, and extends south from that point for 5 miles. An escarpment parallels the ~~wask~~ wash for approximately 4 1/2 miles to the point where the wash turns west to drain into the Hatch Wash and thence into the Colorado River. This escarpment contains several mineralized outcrops in the Cutler and Chinle formations.

The Big Indian Wash area is within T. S. 29, 29 1/2 and 30 S. and R. 24 and 25 E., Salt Lake Meridian. From Moab, Utah, it is reached by following U S Highway 160 south to La Sal Junction, thence over state road 46 for 7 miles, and then south for 7 miles

on a gravel road to the first outcrop of Wingate sandstone. The gravel road continues through the wash for approximately 10 miles and joins U S Highway 160, twenty miles north of Monticello, Utah. The gravelled road is passable throughout the year.

Ore from the area is being shipped either 38 miles to the AEC mill at Monticello, or 60 miles to the buying station at Thompson, Utah.

MINING HISTORY.

Approximately 20 square miles of land has been claimed in the Big Indian district, and all school sections have been leased.

The majority of the above noted claims have been filed after January 1, 1953, and are consequently in conflict with existing oil and gas leases.

The following individuals and organizations have filed claims in the Big Indian Wash district:

1. Utex Exploration Company
2. The Homestake Mining Company
3. The Cal Uranium Company
4. The Continental Uranium Company
5. Roberts Construction Company
6. National Lead Company
7. Federal Uranium Company
8. Standard Uranium Company
9. Lisbon Uranium Company
10. Apache Uranium Company

11. Jolly Jack Uranium Co.

12. Robert B. Daniel, Grand Junction, Colo.

13. Frazier & Provonsha, Monticello, Utah.

14. Nielsen and Larsen, Grand Junction, Colo.

15. Robert Barrett, Moab, Utah.

PAST AND PRESENT MINING ACTIVITY.

Three large mines are active in the Big Indian Wash area at the present time. These are:

1. The Cal Uranium Company's San Juan shaft (1/2 mile SE of the Hudson-Homestake property).

2. The Utex Exploration Company's MiVida Mine (C. Steen). (In the central part of the wash).

3. The Continental Uranium Company's School Section 36 mine. (8 miles SW of the Steen mine).

In addition to the above properties three other large properties are being actively developed in the area. These are:

1. The Homestake-Little Beaver property (driving a 330 foot adit).

2. The Homestake property (sinking a 500 foot shaft). (Immediately south of the Steen mine).

3. The Standard Uranium Company's property (driving a 600 foot adit east of the Steen mine).

Production of uranium and vanadium ores from the district has been confined to the Permian Cutler formation and the Triassic Chinle formation. The lower portion of the Chinle formation (Mossback) is by far the largest producer. The Permian Cutler formation

has produced sporadically since 1948, but the ore grade is low and the mines have been inoperative for many months.

During the first World War, the Ohio Copper Company mined a large amount of copper carbonate ore of unknown grade from a deposit located on a fracture zone in the northern part of the wash.

The Utex Exploration Company began producing from the Mi Vida mine in November of 1952 and is using a modified room and pillar method of mining. Very little timber is used in the workings, but a large number of roof bolts have been used to advantage. Production in the mine is from the Mossback member of the Triassic Chinle formation.

The Cal Uranium Company of Moab, Utah, has sunk a two-compartment "cribbed" shaft into an ore body 1/2 mile southeast of the Columbia #1 claim. Development work has been completed and ore is being shipped on a regular schedule.

The La Sal Mining and Development Co. recently sold its holdings to the Homestake Mining Co., and operations preceding the sinking of a large shaft are underway. The property is located immediately west of the San Juan shaft. It is anticipated that the Homestake shaft will be sunk to the 600 foot level.

The Continental Uranium Co. of Grand Junction, Colo., has located a large ore body in the southern part of Big Indian Wash. Development work has been completed and ore is being shipped.

GEOMORPHOLOGY AND CLIMATE.

The Big Indian Wash district has an elevation ranging from 6,400 feet to 7,100 feet. Two prominent east-facing cuestas are the major land forms. The western-most cuesta is capped by

the Jurassic Wingate sandstone which has been eroded parallel to the stratification of the dipping beds, and is the most important land form. One mile to the northeast, across an alluvium-filled valley, is the second prominent cuesta formed by the Pennsylvanian Hermosa limestone. Facing the Hermosa cuesta across the Lisbon Valley is the Burro canyon member of the Dakota. The Lisbon Valley is formed by the Lisbon Valley fault, and shows the amount of displacement along the fault, by having Dakota and Hermosa facing each other.

In the Big Indian Wash - Lisbon Valley area, streams are subsequent, intermittent and in a stage of early maturity. Several obsequent canyons have developed in areas where cross-jointing is prominently developed.

After leaving the valleys, the streams are consequent and of late maturity. A trellis pattern is formed by the cuestas. Drainage for the area as a whole displays a dendritic pattern. The northern third of Lisbon Valley drains westward through Big Indian Wash to Hatch Wash, thence to the Colorado River,whereas the southern part of Lisbon Valley drains westward to the Dolores River. The streams in the area are at present in a stage of downcutting due to rejuvenation.

The climate is semi-arid, with sparse amounts of rain and snow. Precipitation amounts to less than 20 inches per year.

Vegetation consists of sage, cactus, and small piñon and Juniper trees.

Working conditions are good throughout the year, although seasonal rains and snows make some roads temporarily impassable.

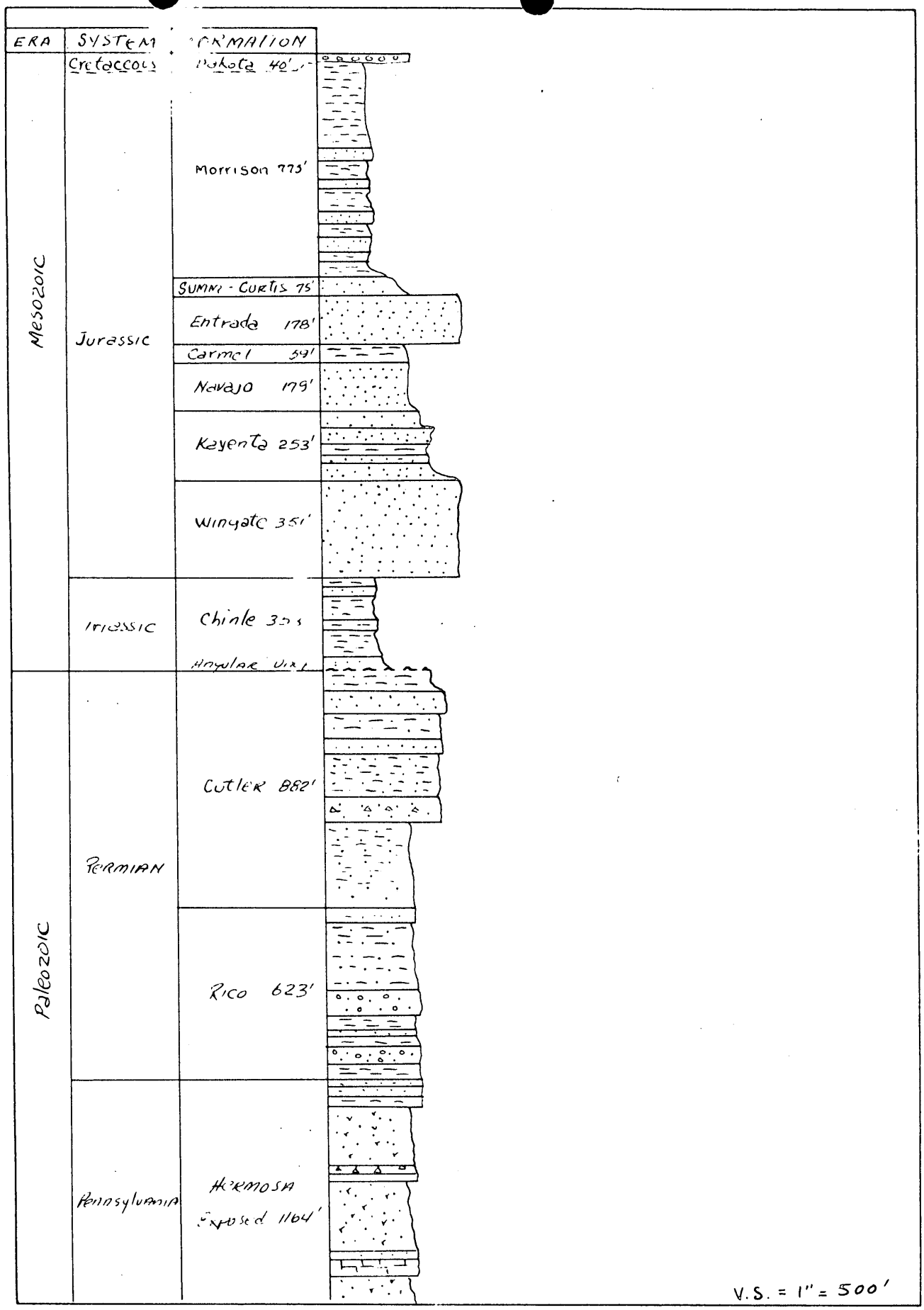


FIG.- STRATIGRAPHIC SECTION, SOUTH BIG INDIAN WASH and LISBON VALLEY, SAN JUAN COUNTY, UTAH.

GEOLOGY.

Previous reports on the Big Indian Wash Mining district are:

1. Interim Report on Examination of Big Indian Wash, Uranium Properties, San Juan County, Utah, April 1949, by Charles A. Rasor. This report recommended that the Pre-Salt Wash formations be studied in detail.

2. The Uranium Deposits of Big Indian Wash, January, 1953, by George P. Dix, Jr. This report recommended an investigation drilling program in the Big Indian Wash District.

3. Bureau of Mines Information Circular 7669. Uranium Mining Operations of the Utex Exploration Company in the Big Indian District, San Juan County, Utah, October 19, 1953, by Steen, Dix, Hoxen, and McLellan. This report briefly described mining operations, geology, and the mineralogy.

4. Geology and Ore Deposits of the Big Indian Wash District, by Teichman, R.; McLelland, J.; and Fisk, I.; USAEC, 1954. (Unpublished-classified). This report describes in detail the geology and the ore deposits of the Big Indian Wash District.

The rock formations exposed in the Big Indian Wash district range in age from Pennsylvanian Hermosa limestone to the Jurassic Navajo sandstone. The principal uranium bearing horizon is a sandstone member in the lower part of the Triassic Chinle formation which has been tentatively identified as the Mossback member of the Chinle formation. The formations overlying the ore horizon

within the claim boundaries are the Wingate, Chinle, and Mossback member of Chinle. The formation underlying the ore horizon is the Cutler-Rico and the contact is an angular unconformity with the Moenkopi being eroded out. A brief description of these formations is:

Navajo Sandstone 150' - orange to red to buff sandstone; fine-grained; crossbedded.

Kayenta Formation 125' - red to brown shales and silts; some crossbedding; contains some carbon.

Wingate 315' - light reddish brown; fine-grained; hard, friable, tight to slightly porous sandstone; and some white fine-grained calcareous sandstone and limestone nodules; cross-bedded in some horizons.

Chinle 415' - purple, maroon, red,brown and green mottled sandy shale; fine-grained, tight, calcareous arkosic sandstone; grey and grey-green granules to pebble conglomerates of mudstone, siltstone and limestone; tight lime cemented conglomerate; some arkose sandstone (Mossback).

Cutler 900' - white to pink to reddish-brown, fine to medium grained, tight to porous, micaceous, arkosic and calcareous sandstone; some variegated shale and some chert, limestone, and gypsum.

TECTONIC STRUCTURES.

Big Indian Wash is located midway between two major laccolithic intrusives; the La Sal Mountains and the Abajo Mountains,

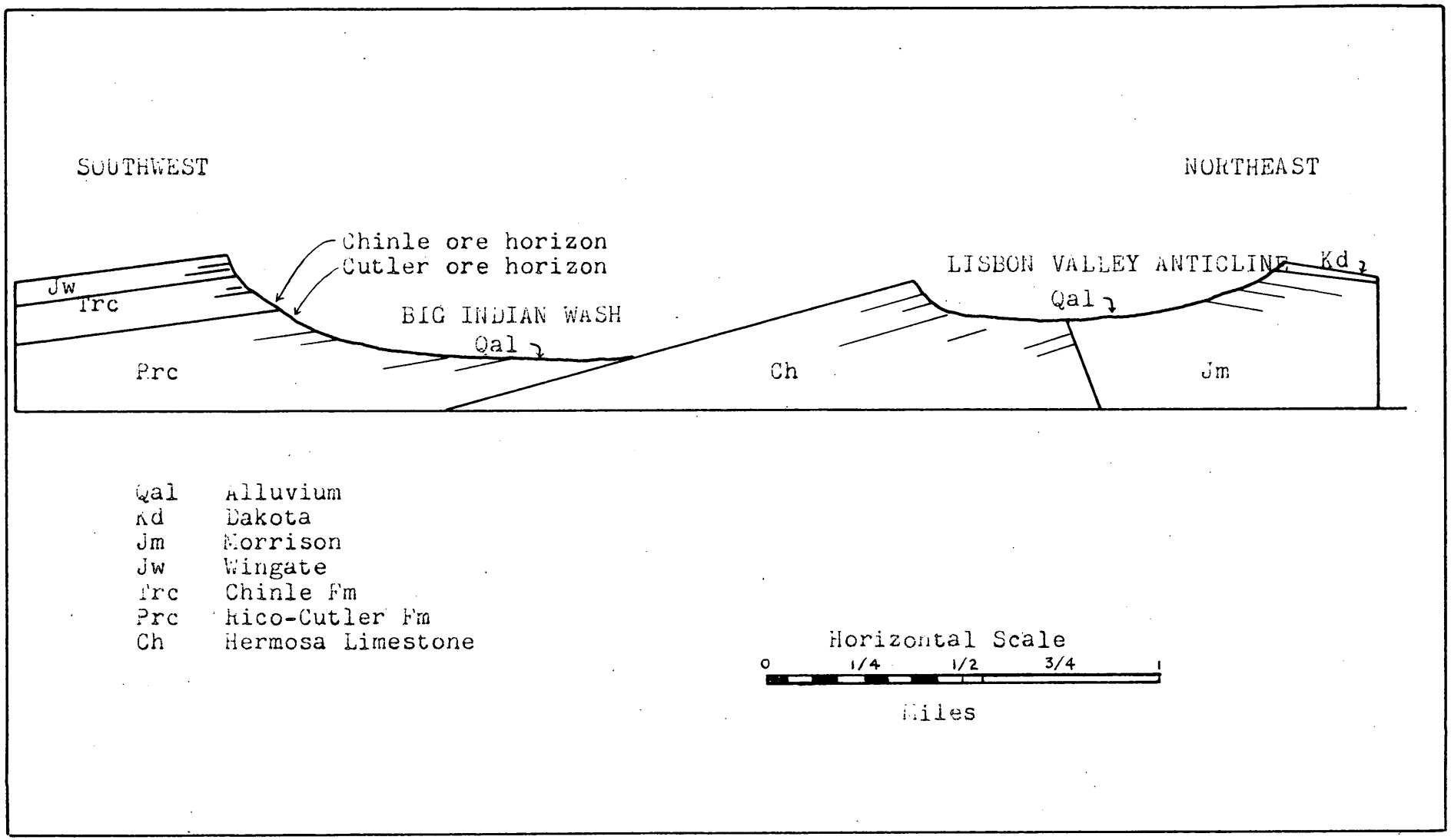


FIGURE - - GEOLOGIC CROSS SECTION: LISBON VALLEY ANTICLINE IN THE VICINITY OF UTEX AND BIG BUCK MINES, BIG INDIAN WASH, SAN JUAN COUNTY, UTAH.

and approximately one mile east of the Lisbon Valley-Dolores anticline. The Lisbon Valley-Dolores anticline trends northwest from a point 20 miles east of upheaval Dome in the Inter River area northwest of Moab, Utah.

Determination of the attitude of and displacement along the Lisbon Valley fault is difficult due to the presence of alluvium in the fault zone. However, present field evidence from cross-sections and drill hole data show the fault to be hinged at the north end reaching a maximum displacement of approximately 5,000 feet east of the Big Indian Rock, and "horse tailing" out in the south.

A pronounced joint system is present in the Big Indian Wash district and aerial photographs indicate that in the northern part of the district, where private development is currently centered, the joints strike northwest. In two places, as seen from aerial photographs, closely spaced conjugate joint sets exist. These two areas are in the vicinity of Steen's canyon and the canyon immediately north of Steen's canyon. This well-developed conjugate joint set doubtless influenced the canyon development.

ECONOMIC GEOLOGY.

In the Big Indian Wash area, uranium mineralization is found in the lower part of the Chinle formation (Mossback) and in the upper part of the Permian Cutler formation. The mineralized zone within the Chinle formation is exposed immediately east of the MiVida mine. Mineralization within the Cutler formation is confined to 5 arkosic lenses. Four of these lenses are within a

hundred feet of the Cutler-Chinle contact and one is within 150 feet of the contact.

CHINLE DEPOSITS.

A continuous outcrop of the Chinle ore horizon composed of sandstone, siltstone, and conglomerate extends for 8 miles across the Big Indian Wash area and south into Lisbon Valley. Mineralization has been noted on the rim in the northern, central and southern parts of the area. Five large ore deposits have been discovered during the course of development drilling (mentioned previously).

Study of the acres in the northern part of the area indicated that the ore is principally disseminated uraninite, and is confined to closely spaced horizons within the lower Chinle formation (Mossback).

The host rock consists of a gray, medium-grained, poorly cemented, micaceous sandstone to a gray-green siltstone. The ore horizons are separated by one to two feet of barren sandstone and siltstone. These barren mudstones are composed of the illite and mont-morillonite-type clays. The sandstone contains pyrite and marcasite. Muscovite is found along the bedding planes. Calcite is the most common cementing material and is accompanied by iron oxides and vanadium minerals.

Thin sections have been cut and autoradiographs made by the United States Atomic Energy Commission of selected ore-bearing samples from the lower part of the Chinle (Mossback) formation. Autoradiographs of the thin sections show a few alpha tracks and clusters originated from black, opaque specks in altered feldspar grains or on their borders. The following ore and gangue

minerals have been identified from the lower Chinle deposits in Big Indian Wash:

carnotite	muscovite	epidote
tyuyamunite	orthoclase	garnet
montroscite	chert	magnetite
doloroscite	quartz	pyrolusite
corvusite	calcite	greenockite
uraninite	rutile	sphalerite
pyrite	zircon	galena

Paragenesis shows this depositional order: detritals, authigenic quartz, cement and lastly, ore minerals. The cement is made up of several materials: calcite, clay barite and chlorite. Their times of deposition are possibly simultaneous. One thin section from the Continental Uranium Company deposit is of interest. It shows a pyrite band deposited before the ore minerals on the contact of the fine and coarse textured material and it has incompletely replaced all detritals and matrix except zircon. Detrital quartz is abundant in all thin sections except those of the limestone conglomerates. These conglomerates are granule to pebble in size and the presence of quartz-feldspar lenses shows the interbraiding of different source material within the lower Chinle (Mossback). The quartz grains show corrosion by earlier solutions than the cement. Calcite is the most abundant cementing material and it replaces feldspars; it in turn is replaced by later ore minerals. On the basis of paragenesis and ore minerals it can be said that the Mossback deposits in this area are similar. There are some small differences, however; these are more silica cement, lack of barite and the lack of tyuyamunite in the Continental Uranium Company deposit in the southern part of the wash. These differences may be small on the basis of further core study.

ORE DEPOSITS.

In the discussion of the deposits in the Big Indian Wash area, only those deposits in or nearing the production stages will be considered. At present five large deposits have been located by diamond drilling and are being actively exploited. They are:

1. The Steen discovery in the central part of the Wash. Approximately 3,500 feet long and 1,500 feet wide.
2. The Cal Uranium-Mamie deposit in the northern part of the wash. Approximately 2,500 feet long and 1,500 feet wide.
3. The Hudson discovery in the northern part of the wash. Approximately 300 feet long, 150 feet wide and not yet completely developed.
4. The Homestake (Little Beaver) property immediately southwest of the Steen deposit and probably contiguous.
5. The Continental Uranium Company deposit in the extreme southern part of the wash. Approximately 800 feet long and 300 feet wide.

The Steen deposit is elongated in a northwesterly direction and is the only deposit that shows any degree of linearity.

It is to be noted that the strike of the other deposits within the wash vary radically from one to the other, and it appears that at this time a combination of . . .

In using the apparent size of ore bodies to determine drill hole spacings for exploration purposes the following criteria have been used:

$$\text{PROBABILITY} = \frac{\text{Target size x size of ore bodies}}{\text{area of elementary figure (spacing)}}$$

In computing the spacings necessary to find ore or strongly mineralized ground it has been found that initial drill hole spacings of 1,000 feet are more than adequate to explore ground within the Big Indian Wash area. This, of course, is based on the assumption that the basic controls of deposition are factors to which no value can be assigned in outlining a drilling program. Further refinement of a drilling grid based on statistical probability can be had by using to advantage increasing gamma ray values taken from subsurface gamma logs through the ore-bearing horizon. The appearance of a favorable lithologic type, an arkosic sandstone, is another factor to be considered in projecting drilling patterns or trends, but this factor has not been fully evaluated.

CONCLUSIONS AND RECOMMENDATIONS.

The following conclusions have been reached during the course of the reconnaissance investigation of the Joan, La Preal and Ilena claims:

1. The Joan, La Preal and Ilena groups of claims appear to be favorably located with respect to known deposits in the Big Indian Wash area. No mines are operative near the property, but mineralization has been observed on outcrops east of the claims.
2. No criteria have yet been developed for the Big Indian Wash area which would allow of prediction of ore trends into the area covered by the claims. However, considering the possibility of extension of the mineralization noted on the outcrops east of the properties, the following

is recommended:

1. It is recommended that a limited exploratory drilling program be conducted upon the property. (Limited considering the drilling depths required to penetrate the ore horizon).

   (a.) The drilling program should be completed in stages; the first stage to consist of about 15 holes on 2,000 foot centers to an average depth of 1,200 feet.

   (b.) Should favorable results be encountered during the first drilling stage it is recommended that stage 2 be undertaken. Stage 2 should consist of a program devised to decrease the hole spacing to 500 and 1,000 foot centers in those areas considered favorable. Fifteen to twenty holes will be needed in this stage; drilling depths will average 1,200 feet.

No detailed drilling has been done in the area surrounding the La Preal, Ilena and Joan groups, but some wildcat drilling has been done by the National Uranium Company on its lease properties a few miles north of the properties. The National Lead Company has done some drilling, but the results are not available at the present time.

The Roberts Construction Company has for some time contemplated a drilling program on its property east of the claims under discussion, but up to the present time no drilling has taken place.

Due to the depth of hole in the area under discussion no outline has been prepared for drilling beyond stage 2 since it is felt that this would be quite premature. Evaluation of the results of the first two drilling stages will provide the information necessary for further planning.

Treasure
URANIUM AND RESOURCES, INC.
531 SOUTH STATE STREET — SALT LAKE CITY 11, UTAH

January 5,1956

Mr.Ernest Wm.Ellis,Chief
Rare & Miscellaneous Metals Division
Defense Minerals Exploration Administration
U.S.Department of the Interior
Washington,25,D.C.

Dear Sir:

Re:Docket No.DMEA-3646 (Uranium)
Joan,Ilena,Lapreal Groups,San
Juan County,Utah

Attached application for DMEA funds is intended to substitute for previous application made for the same property by Pathfinder Uranium Co. Your previous advices have indicated that the previous application is being held in suspense pending receipt of the attached application from present owners.

Delay has been encountered in submitting this pending some decision on the part of Urado Uranium Corporation as to a joint application embodying both the area of a leasehold adjacent to the property covered by the attached application. It now appears that Urado Uranium Corporation is not interested in a joint application and we have therefore undertaken to process the enclosed covering only ground owned and held by this corporation. May we then have this application considered by substitution.

I am not informed as to the decision of Urado Uranium Corporation applying for loan on their leasehold but if they so intend it would be entirely independent of that attached and would not cover the same properties.

Very truly yours,

B.A.Robinson

Managing Director

RECEIVED
JAN 9 1956

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JAN 9 1956

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 4117
Metal or Mineral Uranium
Date Received 1-9-56
Estimated Cost ~~$46,530.00~~
~~Participation (Government %)~~ 71,530.00

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: Treasure Uranium and Resources, Inc.
531 South State Street
Salt Lake City, Utah

(*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 attached sheet.

(*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 See attached sheet

(*b*) State any mine name by which the property is known. none

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

(*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 attached sheet.

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

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

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. none

(*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. maps, sketches, reports attached.

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

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

16—66551-1

For information on category No. 4, see attached sheet.

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

(*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. See attached sheet.

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?

[x] 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 Jan 5, 1956

Attest: David A. Robinson
Secretary

Treasure Uranium & Resources, Inc.
(Applicant)

By Ken Garff
Ken Garff, 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

EXHIBIT A
Attached To And Forming A Part Of
Form MF103 Application of
Treasure Uranium & Resources, Inc. for DMEA Loan

1. (b) A corporation organized under and pursuant to the laws of the State of Nevada, qualified to do business in Utah, with principal offices at 531 South State, Salt Lake City, Utah.

(c) Ken Garff, President. (Background) Organized and directed Ken Garff Company, distributor of Oldsmobile Automobiles in Salt Lake City for past score of years; organized and directed Ken Garff Sales Co., operators of the largest group of trailer sales lots in the western states; several years experience in mining operations in the United States and Mexico.
Address: 1770 Laird Avenue, Salt Lake City, Utah

W. H. H. Cranmer, Vice President. (Background) President and directing head of New Park Mining Company, successfully operating mines in the Park City, Utah district for a score of years past; also president and directing head of Lucky Mc Uranium Mining Company, producing uranium from mines in Wyoming; also directing head of several other companies operating in the intermountain states.
Address: 3607 Canyon Way, Salt Lake City, Utah

David A. Robinson, Secretary. (Background) Practicing attorney with a score of years experience in practice of law in Utah; also identified with mining companies and mining operations for past score of years.
Address: 1029 Barbara Place, Salt Lake City, Utah

Raymond C. Wilson, Treasurer. (Background) Retired senior vice president of First Security Bank of Utah; also identified with Utah mining companies as director and officer of several successful mining concerns for past several years.
Address: 953 South 12th East, Salt Lake City, Utah

3. (a) Property to be explored or benefited by exploration under control of applicant consists of 43 unpatented mining claims located in the central part of Big Indian Wash, San Juan County, Utah, all as more particularly described under 3 (f) below.

(c, d and e) Property was acquired by purchase from Pathfinder Uranium Company and has been fully paid for.

<u>BIG INDIAN WASH, SAN JUAN COUNTY, UTAH</u>

Joan # 6	28	30S	24E	10/14/53	37	104
" # 7	"	"	"	"	"	105
" # 8	"	"	"	"	"	106
" # 9	"	"	"	"	"	107

Joan	#10		28	30S	24E	10/14/53	37	108
"	#11		"	"	"	"	"	109
"	#12		"	"	"	"	"	110
"	#13		"	"	"	"	"	111
"	#14		27 & 28	"	"	"	"	112
"	#15	E½ 28, W½	27	"	"	10/18/53	"	190
"	#16	E½	28	"	"	"	"	190
"	#17	"	"	"	"	"	"	191
"	#18	"	"	"	"	10/14/53	"	113
"	#19		"	"	"	"	"	114
"	#20		"	"	"	"	"	115
"	#21	W½	"	"	"	"	"	116
"	#22	"	"	"	"	"	"	117
"	#23	"	"	"	"	"	"	118
"	#24		"	"	"	"	"	119
"	#25		"	"	"	"	"	120
"	#26		"	"	"	"	"	121
"	#27		"	"	"	"	"	122
"	#28		"	"	"	"	"	123
"	#29	NE¼	"	"	"	10/18/53	"	191
"	#30	"	"	"	"	"	"	192
"	#31	"	"	"	"	"	"	192
"	#32	NE¼ 28, NW¼	27	"	"	"	"	193
"	#37		27 & 28	"	"	"	"	294
"	#42	S½	21	"	"	"	"	294
"	#45	Near Center of	"	"	"	"	"	295
"	#47	N½	"	"	"	"	"	295
"	#24A	SW¼	21	30S	24E	2/21/55	277	208
		NW¼	28	30S	24E			
"	#25A	"	"	"	"	"	"	"
"	#36		21 & 28	30S	24E	5/8/54	93	109
"	#38		"	"	"	"	"	"
"	#27A	NW¼	28	30S	24E	3/11/55	283	115
LaPreal	# 1			30S	24E	10/14/53	37	136
"	# 2	NW¼	33	"	"	"	"	137
"	# 3	"	"	"	"	"	"	138
"	# 4	N½	"	"	"	"	"	139
"	#	"	"	"	"	"	"	135
"	# 6	"	"	"	"	"	"	140
"	# 7	NE¼	"	"	"	"	"	141
"	# 8	"	"	"	"	"	"	142
"	# 9	NW¼ 34, NE¼	"	"	"	"	"	143

All transferred to Treasure Uranium & Resources, Inc., which transfer was duly recorded under Entry No. P5745 on November 17, 1955 in Book 82 Page 25 on the books and records of the San Juan County Recorder at Monticello, Utah

4. (a) Property description. Surveying and geologic mapping was conducted by Pathfinder Uranium Co., prior to acquisition by Treasure Uranium & Resources, Inc.

(c) Please refer to attached geologic report on the Joan, Ilena and LaPreal claims by Richard A. Teichman, Jr.

Since the attached report from Richard A. Teichman, Jr. was written, Urado Uranium Co. has drilled five holes in Sections 26 and 27,

T 30 S, R 24 E, formerly held by Pathfinder Uranium Co. The holes averaged 1,160 feet in depth, but only BPI # 4 encountered uranium mineralization. BPI # 1, located about 700 feet from the east property line of Treasure Uranium, encountered 75' of "Mossback" sandstone containing abundant sulfides, asphalt and carbonaceous material. Holes BPI # 2 and 3 encountered about 61 feet of "Mossback" sandstone having some carbonaceous material and pyrite. Hole BPI # 5 was not deep enough to cut the one bearing sandstone. Information on the holes, that includes lithologic and radioactivity logs, have been made available to Treasure Uranium and Resources, Inc.

Drilling in this part of the Big Indian district has been limited and has not been systematic because of the prohibitive cost. It is felt that this part of the district still remains untested and should be drilled. The property is well located in a region of some of the larger uranium producing properties in the United States and while exploration is costly the rewards for discovery are proportionately high.

Exploration of the Joan and LaPreal claims held by Treasure Uranium and Resources, Inc., as outlined in the D M E A application, calls for two stages, the second stage contingent on the success of the first.

Stage 1. Drill eleven holes through the Mossback spaced approximately 1,000 to 1,500 feet apart. This drilling program, if completed, will explore approximately 350 acres in a wide-spaced drilling net. Drilling depths will average 1,250 feet. Cost of Stage 1 would be $46,530.00.

Stage 2. If uranium is encountered in commercial quantities in any of the holes of Stage 1, offset drilling of from 250 to 500 feet would be warranted. There is no way of knowing how many holes will encounter uranium, if any, but six holes averaging 1,250 feet in depth may be sufficient. Cost of Stage 2 would be approximately $25,000.00.

(d) Access roads to the area are good to excellent, passable throughout the year and presently carry considerable traffic from uranium ore production. Moab, Utah is the principal shipping and supply point of the region, with Monticello, Utah within short distance also.

(e) Materials and supplies are available from well stocked warehouses at Moab and Monticello. Water for drilling can be obtained from several sources in the North end of the Big Indian Wash area. Power must be supplied by a diesel generator.

5. (b) See attached map and sketch of the property. As a first stage eleven holes are proposed for the drilling program. The lines on which the holes will be drilled are approximately 1,500 feet apart and trend N 60° East. The eleven drill holes planned are in Sections 28 and 33, T 30 S, R 24 E, Salt Lake Base Meridian. Exact locations are subject to change, depending on topography.

Total footage of the first stage is 13,750 feet for plugged hole and core drilling. (See attached map for locations.)

If uranium is encountered in any of the holes drilling in stage 1 then offset drilling of from 250' to 500' around favorable holes would be warranted.

(c) Actual work will be begun shortly after approval of the application for D M E A funds.

(d) Background of Company. The company was formed recently as a merger of a score of uranium properties and is headed by competent businessmen of wide and successful experience in mining, finance and business. It is presently engaged in active exploration for uranium on properties in New Mexico, Wyoming, Canada and by this application seeks to initiate a program of exploration on some of its Utah properties.

Work will be immediately in charge of John F. Powers, geologist for the company. He is a graduate from the University of Utah and has worked as a consultant for the U. S. Geological Survey and a private consultant since 1951. This work has been largely in the uranium field.

6. (a) Estimate of Costs: The following bids for drilling were received by Treasure Uranium and Resources, Inc.:

Kostyk Drilling Co., Moab, Utah. $3.25/foot for drilling to 1,200 feet, $80.00 for the first twenty foot section of core, $100.00 for the second section and $120.00 for the third section.

Moab Drilling Co., Moab, Utah. $4.00/foot for core and plug hole drilling down to 1,250 feet regardless of number of feet of core.

Utah Drilling Co., Moab, Utah. Plugged hole drilling to 1,200 feet @ $3.15/foot. Coring at approximately 1,200 foot depth @ $3.75/foot.

The lowest bid on drilling received is by Utah Drilling Co. and for a 1,250 foot hole (1,200 feet plugged hole drilling and 60 feet of core) is approximately $3,975.00 per hole.

11 holes @ $3,975.00/hole	$43,725.00

Probing of Holes.

11 locations @ $40.00	440.00
11 logs @ $15.00	165.00
13,750 feet of probing @ $.04/ft	550.00

(b) Charges for engineering and geology	900.00

(c-d-e-f) None.

(g) Sampling and Assaying.

30 determinations for uranium and lime @ $5.00	150.00

Bulldozer roads 1,500 feet	600.00
TOTAL	$46,530.00

Cost of Stage 2 is approximately $25,000.00.

(h) None.

7. (a) Treasure Uranium and Resources, Inc. is prepared to furnish its share of the costs in accordance with existing D M E A regulations.

(b) Treasure Uranium and Resources, Inc. is prepared to furnish its share of the costs in cash.

TREASURE URANIUM AND RESOURCES, INC.

By [signature]
President

ATTEST:

[signature]
Secretary

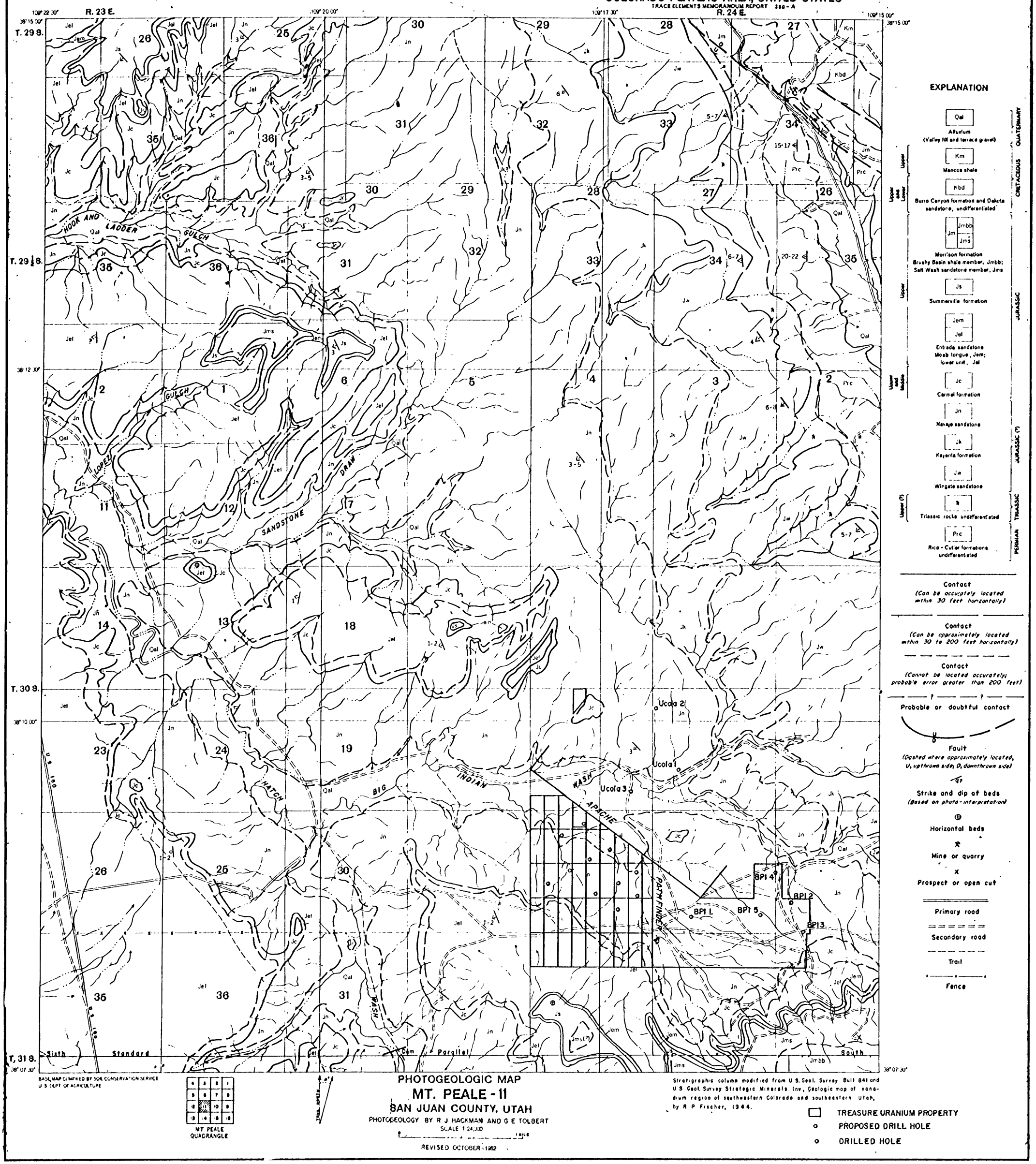
DATED Jan 5, 1956

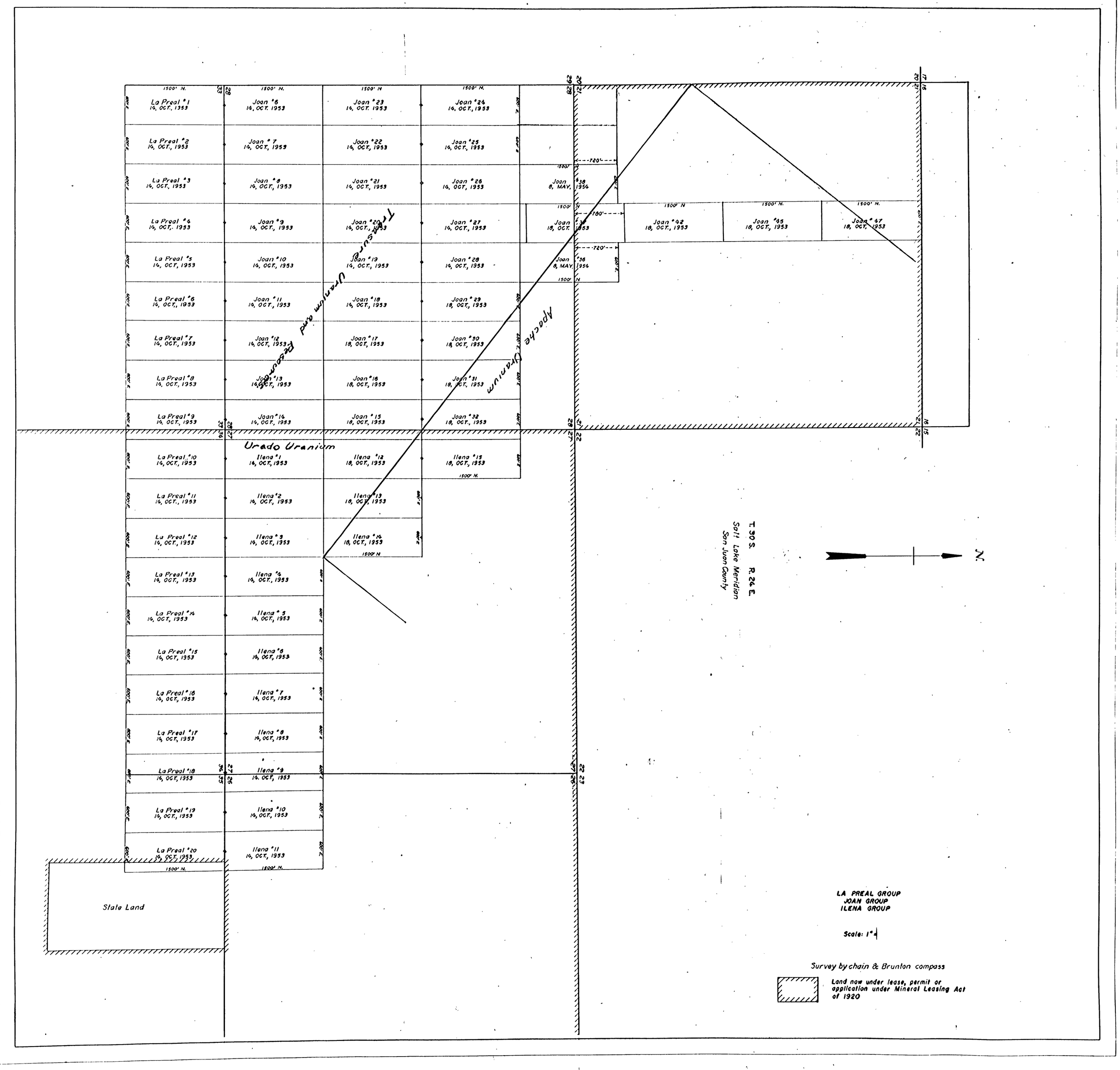
U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

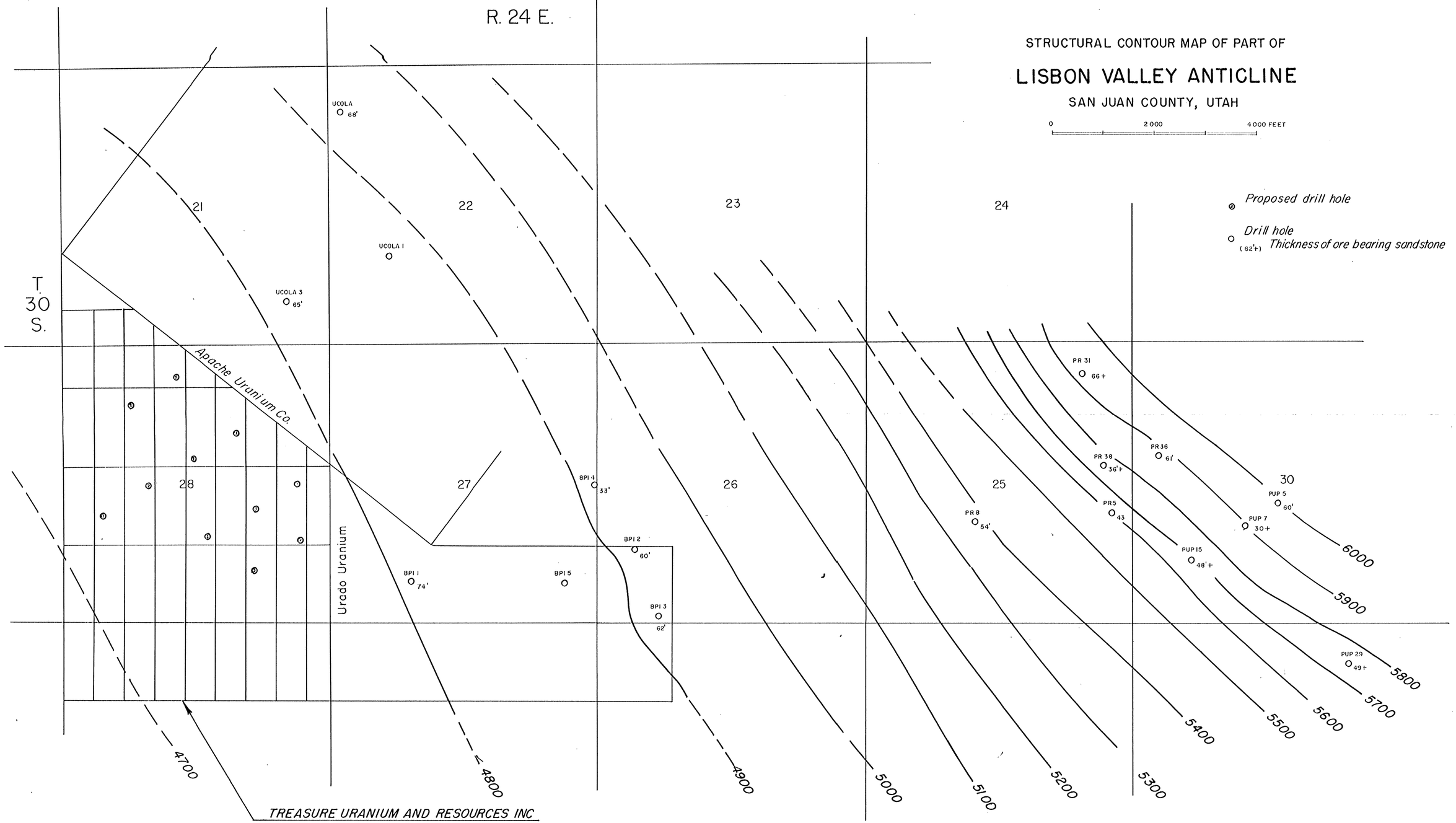
PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 380 - A




La Preal #1 14, OCT., 1953
La Preal #2 14, OCT., 1953
La Preal #3 14, OCT., 1953
La Preal #4 14, OCT., 1953
La Preal #5 14, OCT., 1953
La Preal #6 14, OCT., 1953
La Preal #7 14, OCT., 1953
La Preal #8 14, OCT., 1953
La Preal #9 14, OCT., 1953
La Preal #10 14, OCT., 1953
La Preal #11 14, OCT., 1953
La Preal #12 14, OCT., 1953
La Preal #13 14, OCT., 1953
La Preal #14 14, OCT., 1953
La Preal #15 14, OCT., 1953
La Preal #16 14, OCT., 1953
La Preal #17 14, OCT., 1953
La Preal #18 14, OCT., 1953
La Preal #19 14, OCT., 1953
La Preal #20 14, OCT., 1953
Joan #6 14, OCT. 1953
Joan #7 14, OCT., 1953
Joan #8 14, OCT., 1953
Joan #9 14, OCT., 1953
Joan #10 14, OCT., 1953
Joan #11 14, OCT., 1953
Joan #12 14, OCT., 1953
Joan #13 14, OCT., 1953
Joan #14 14, OCT., 1953
Joan #23 14, OCT. 1953
Joan #22 14, OCT., 1953
Joan #21 14, OCT., 1953
Joan #20 14, OCT., 1953
Joan #19 14, OCT., 1953
Joan #18 14, OCT., 1953
Joan #17 18, OCT., 1953
Joan #16 18, OCT., 1953
Joan #15 18, OCT., 1953
Joan #24 14, OCT., 1953
Joan #25 14, OCT., 1953
Joan #26 14, OCT., 1953
Joan #27 14, OCT., 1953
Joan #28 14, OCT., 1953
Joan #29 18, OCT., 1953
Joan #30 18, OCT., 1953
Joan #31 18, OCT., 1953
Joan #32 18, OCT., 1953
Joan #38 8, MAY, 1954
Joan #39 18, OCT. 1953
Joan #36 8, MAY, 1954
Joan #42 18, OCT., 1953
Joan #45 18, OCT., 1953
Joan #47 18, OCT., 1953
Ilena #1 14, OCT., 1953
Ilena #2 14, OCT., 1953
Ilena #3 14, OCT., 1953
Ilena #4 14, OCT., 1953
Ilena #5 14, OCT., 1953
Ilena #6 14, OCT., 1953
Ilena #7 14, OCT., 1953
Ilena #8 14, OCT., 1953
Ilena #9 14, OCT., 1953
Ilena #10 14, OCT., 1953
Ilena #11 14, OCT., 1953
Ilena #12 18, OCT., 1953
Ilena #13 18, OCT., 1953
Ilena #14 18, OCT., 1953
Ilena #15 18, OCT., 1953
1500' N.
720'
780'
Urado Uranium
Apache Uranium
Teasure Uranium and Resources
State Land
T. 30 S. R. 24 E.
Salt Lake Meridian
San Juan County
N.
LA PREAL GROUP
JOAN GROUP
ILENA GROUP
Scale: 1"=
Survey by chain & Brunton compass
Land now under lease, permit or application under Mineral Leasing Act of 1920



WSM Co. Dec. 1955

Structure contours drawn on base of ore bearing sandstone of Chinle formation–Datum is mean sea level.