Surname 700

Murphy
Ellis

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

SEP 15 1955

Mr. Richard W. Clayton, President
Republic Uranium Company
517 Walker Bank Building
Salt Lake City, Utah

Re: Docket No. DMEA-3545 (Uranium)
Paramount claims
San Juan County, Utah

Dear Mr. Clayton:

This is to acknowledge your letter of September 12, 1955, advising that you have entered into an agreement with Phillips Petroleum Company to explore your property and, therefore, you wish to withdraw the above-docketed application.

Accordingly, we are closing this docket on our records.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FMMurphy:am
9-15-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

Nov. 8-54
Be sure to send a copy of all communications to:
Mathew Wechsler
1010 Vermont Ave. N.W.
Washington, D.C.
Ellis

R.S.

9/14/55 gla

REPUBLIC URANIUM COMPANY
517 WALKER BANK BUILDING
SALT LAKE CITY, UTAH
TELEPHONE 5-6541

RICHARD W. CLAYTON
PRESIDENT

September 12, 1955

DMEA-3545

RECEIVED
SEP 14 1955

Mr. Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division
United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Dear Mr. Ellis:

Mr. Wechsler was kind enough to refer your letter of September 2 to our Company.

Because we have entered into an agreement with Phillips Petroleum Company of Bartlesville, Oklahoma, to explore and develop our property, we are not desireous at the present time of pursuing the DMEA loan that we applied for.

We appreciate your consideration on this matter.

Yours truly,

Richard W. Clayton

Richard W. Clayton
President

RWC/sgb

cc: Mr. Wechsler

9/12/55 gla

WECHSLER AND COMPANY
ACCOUNTANTS, AUDITORS AND TAX CONSULTANTS
SUITE 300, DENRIKE BUILDING
WASHINGTON 5, D. C.
EXECUTIVE 3-5515

September 8, 1955

RECEIVED
SEP 12 1955

Mr. Ernest William Ellis
Chief, Rare and Miscellaneous Metals Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3545 (Uranium)
Paramount claims
San Juan County, Utah

Dear Mr. Ellis:

I have forwarded your letter of September 2 to Republic Uranium Company, Inc. I am under the impression they will not go forward with the loan but cannot state so definitely as I am no longer representing them. You will hear from them directly in the near future.

Sincerely yours,

Nathan Wechsler

Nathan Wechsler, C.P.A.
and Attorney at Law

NW:lmo

Surname 700
Murphy
Ellis
Mitterdorf

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

SEP - 2 1955

Republic Uranium Company, Inc.
c/o Mr. Nathan Wechsler, Attorney
1010 Vermont Avenue, N. W.
Washington 5, D. C.

Re: Docket No. DMEA-3545 (Uranium)
Paramount claims
San Juan County, Utah

Dear Mr. Wechsler:

We refer to your letter, dated May 27, and ours in response, dated June 3, 1955, concerning the above-docketed application.

You stated that as soon as preliminary drilling had been completed on the Paramount claims, you would then submit additional geologic information pertaining to the subject property. We agreed to hold the docket open pending receipt of this information.

Will you kindly advise us the approximate date we may expect to receive this data.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy:am
9-2-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. ~~XXXXXXX~~ 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Reg. III(2)

R.C.S.

Surname 700

Monthly
Selfridge
JK Johnson

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

JUN 1 6 1955

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

Re: Docket No. DMEA-3545 (Uranium)
Republic Uranium Company, Inc.
Paramount claims
San Juan County, Utah

Dear Mr. Traver:

In response to your memorandum, dated June 8, 1955, we are enclosing two copies of the Applicant's letter which you requested for your files.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Enclosure

APPROVED:

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

Thor H. Kiilsgaard
Member, Geolgocial Survey (JHB)

F. M. Murphy:am
6-14-55
cc to: Admr. Reading File
Operating Committee
Docket
J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

R.S.S.

6/14/55 gla

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

224 New Customhouse
Denver 2, Colorado

June 8, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3545 (Uranium) (Paramount claims), San Juan County, Utah

We are in receipt of a copy of a letter dated June 3, 1955 from Ernest William Ellis to the applicant.

For our files will you please forward us a copy of the applicant's letter dated May 27, 1955 in which he requested that this application be held in abeyance.

W. M. Traver

W. M. Traver

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

RECEIVED
JUN 1 8 1955

224 New Customhouse
Denver 2, Colorado

June 8, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3545 (Uranium) (Paramount claims), San Juan County, Utah

We are in receipt of a copy of a letter dated June 3, 1955 from Ernest William Ellis to the applicant.

For our files will you please forward us a copy of the applicant's letter dated May 27, 1955 in which he requested that this application be held in abeyance.

W. M. Traver

W. M. Traver

IN REPLY REFER TO:

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

RECEIVED
JUN - 6 1955

June 3, 1955

Memorandum

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

From: T. M. Hillsgaard, U. S. Geological Survey

Subject: Review of Field Team reports, DMEA Docket 3346 (Uranium), Utah Premier Co., San Juan Co., Utah, and DMEA Docket 3345, Republic Uranium Company, San Juan Co., Utah

Field examiners have recommended a contract for the cited property but the Field Team has not concurred and have instead recommended denial. The Field Team based their denial largely on the fact that the adjoining Republic property (DMEA Docket 3345) had been recommended for denial by field examiners, therefore, in an effort to be consistent, the Field Team believed the Premier property also should be denied. On the other hand, field examiners recommended the Premier for approval solely on the fact that this property had a small outcrop of ore, whereas the Republic did not.

After reading all information available on both the Republic and Premier properties the writer asked for a policy decision from DMEA as to further processing of these applications, this request being based on the fact that the adjoining properties were more or less in the center of the Big Indian uranium district and that a decision affecting one should also affect the other. At the subsequent policy meeting attended by Frank Johnson, George Selfridge, and Fred Murphy of DMEA, and the writer it was decided that because of the geographical and geological location both properties should be judged together. The writer recommended approval of a contract on the Premier property, but of a project not broken into as many stages as proposed by the field examiners. This opinion was shared by the other members present. At the meeting it was also learned the Republic Company had asked that action on their application be withheld pending their obtaining further information from work now in progress. This, of course, momentarily erased the problem and it is now hoped that proposed work on the Premier will give results that will be of use in further evaluating the Republic, if and when further processing of that application is requested.

Although exploration of the Premier property has been recommended, the initial part of the project proposed by the field examiners does not appear to be too practical. In the first place it would be difficult to get a drilling contractor to undertake a job that might be concluded at the conclusion of the 250 feet of drilling allowed in Stage I. Further, it would appear that Stage II drilling is too integrated with Stage I to be set aside as a separate stage. I recommend that 1000 feet of drilling be alloted to testing the area behind the mineralized outcrop, this drilling from sites approved by the Government and the Operator, and to be designated in the contract as Stage I. Stage III and IV could be as proposed by the field except that they would not be Stages II and III in the contract.

T. K. Kiilsgaard

TKKiilsgaard:hlm
G-6/3/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior
J. O. Morted, 3210 GSA

Surname 700

6-6-55 Am.

Murphy
Ellis
Mitchendorf

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

JUN - 3 1955

Republic Uranium Company, Inc.
c/o Mr. Nathan Wechsler, Attorney
1010 Vermont Avenue, N. W.
Washington 5, D. C.

Re: Docket No. DMEA-3545 (Uranium)
Paramount claims
San Juan County, Utah

Dear Mr. Wechsler:

This is to acknowledge your letter, dated May 27, in regard to the captioned application.

Pursuant to your request we shall hold this application in abeyance until you complete the preliminary drilling contemplated. When we receive the geological data obtained as a result of this drilling we shall then continue to process the subject application.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy:am
6-3-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

R.G.H.

5/31/55 gla

WECHSLER AND COMPANY
ACCOUNTANTS, AUDITORS AND TAX CONSULTANTS
SUITE 300, DENRIKE BUILDING
WASHINGTON 5, D. C.
EXECUTIVE 3-5515

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 31 1955

May 27, 1955

Mr. Ernest William Ellis
Chief, Rare and Miscellaneous
Metals Division
Defense Minerals Exploration
Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Ellis:

Re Republic Uranium - Docket No. 3545

This is to inform you that Republic Uranium is presently engaged in setting up to drill its properties. The loan of Republic has been in abeyance for some time awaiting additional geological information. As soon as I obtain geological information on the drilling, which I expect to receive in the near future, I will transmit to you for your further consideration of your processing of the Republic Uranium application.

Sincerely yours,

WECHSLER AND COMPANY

Nathan Wechsler

Nathan Wechsler, C.P.A. and
Attorney at Law

NW:lmo

5/16/55 gla

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

224 New Customhouse
Denver 2, Colorado

May 12, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3648 (Uranium), Utah Premier Uranium Company, (Utah Premier group), San Juan County, Utah

+ DMEA-3545-(Paramount claims) Republic Uranium Co.

Enclosed are the original and three copies of the report pertaining to the above application.

The report recommends approval of a four stage program of exploration on the Utah Premier claim group and denial of the request for exploration on the adjoining Paramount claims of the Republic Uranium Company (DMEA Docket 3545). The geologic setting of the two properties is similar and we do not believe that the presence of one very limited mineralized outcrop on the Utah Premier property, or the absence of such an outcrop on the Republic Uranium property is of great significance.

Although both properties lie in an area which may contain large uranium deposits, geologic conditions favorable to such deposits were not observed in the outcrops or drill holes on either property. Drilling on the Utah Premier property (5 holes), on the Republic Uranium property (2 holes), and immediately east of the Utah Premier property (about 12 holes) failed to expose ore on mineralized ground.

We conclude that there is insufficient evidence of significant targets to warrant exploration on either property and we recommend that both the Utah Premier application (DMEA Docket 3648) and the Republic Uranium application (DMEA Docket 3545) be denied without prejudice. Should the applicants do the additional prospecting necessary to establish the presence of significant exploration targets on the claim, revised applications can be accepted.

Should the Washington DMEA staff feel that the small mineralized outcrop is significant, we recommend that Stage I and II of the proposed program on the Utah Premier property be approved and that the Republic Uranium Company be notified that if they can expose similar evidence of mineralization on their property favorable consideration will be given to exploration on their claims.

Nine extra copies of Figure 2 of the Survey report are attached.

W. M. Traver

E. N. Harshman

Enclosures

DMEA
Date Rec'd.
MAY 2 1955
BUREAU OF MINES
Denver, Colorado

TRANSMITTED
MAY 12 1955

Region III

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado

April 29, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw, Supervising Mining Engineer

Subject: Docket No. DMEA 3648, Utah Premier Group, Utah Premier Uranium Company, San Juan County, Utah

Enclosed are the original and 11 copies of a summary, conclusions, and recommendations by Gordon W. Weir, geologist, and Carl Belser, mining engineer, and the original and 11 copies of an engineering report by Carl Belser covering the application of the Utah Premier Uranium Co., Docket No. DMEA 3648. The Utah Premier Uranium Co. applied for exploration assistance in the amount of $172,900.00 to explore the Utah Premier group by 32,600 feet of diamond drilling. Field examination was made on March 23, 1955, by an examining team from the Geological Survey and Bureau of Mines. A small exposure of uranium mineralization occurs on the Crooked Wash claim. The examining team believes that a small amount of exploration is warranted near the mineralized exposure. If the results prove favorable, it should be followed by more extensive exploration. It is recommended that the Government enter into a contract with the applicant consisting of 10,000 feet of diamond drilling in four stages to be performed at an estimated cost of $25,635.50. The amount of Government participation at 75 percent would be $19,227.38.

John F. Shaw

John F. Shaw

cc: 11 w/orig
DMEA 3648
Chron

JFS/mh

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3648, Utah Premier Group
Utah Premier Uranium Company
San Juan County, Utah

Uranium

Gordon W. Weir, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

April 22, 1955

RMMA 3648
UTAH PREMIER GROUP
UTAH PREMIER URANIUM COMPANY
SAN JUAN COUNTY, UTAH

Summary, Conclusions, and Recommendations

By Gordon W. Weir
Geologist
Geological Survey

Carl Belser
Mining Engineer
Bureau of Mines

TRANSMITTED
MAY 12 1955

DMEA 3648
UTAH PREMIER GROUP
UTAH PREMIER URANIUM COMPANY
SAN JUAN COUNTY, UTAH

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Gordon W. Weir and Carl Balser

Utah Premier Uranium Company, Richard Y. Bennion, president, 516 Continental Bank Building, Salt Lake City, Utah, has applied for Defense Minerals Exploration Administration aid in a $172,900.00 project to explore the Utah Premier group by 32,600 feet of diamond drilling.

A field investigation was made on March 23, 1955, by an examining team from the Geological Survey and the Bureau of Mines. John Q. St. Clair, mining geologist, accompanied the team and represented the applicant.

The Utah Premier group is on the west flank of the Lisbon Valley anticline in secs. 30 and 31, T. 30 S., R. 25 E., Salt Lake meridian, San Juan County, Utah.

The exposed rocks are Cutler formation of Permian age along the eastern edge of the claims, overlain by about 400 feet of Triassic Chinle formation and topped by Wingate and Kayenta formations of the Lower Jurassic. The escarpments face northeasterly and the formations dip from 6 to 8 degrees southwest. The only known ore horizon on the claims is in the basal Chinle. The Chinle-Cutler contact is well exposed on the Crooked Wash claim where a fairly coarse basal Chinle, containing a little carbonaceous trash rests upon one to three feet of gray mudstone which in turn rests upon the red Cutler sandstone.

On the Crooked Wash claim the mudstone is slightly radioactive and a small area can be explored with short holes.

The applicant's proposal called for 32,600 feet of diamond drilling at a total estimated cost of $172,980.00. The drilling was to be done in three stages containing 6,600 feet, 19,500 feet, and 6,500 feet, respectively. The examining team recommends that present drilling be limited to a four-stage program consisting of 10,000 feet of diamond drilling at a total estimated cost of $25,636.50. Government participation at 75 percent would be $19,227.38.

DMRM 3640
WEAK PREMIER GROUP
WEAK PREMIER URANIUM COMPANY
SAN JUAN COUNTY, UTAH

Engineering Report

By Carl Nelson
Mining Engineer
Bureau of Mines

DMEA 3648
UTAH PREMIER GROUP
UTAH PREMIER URANIUM COMPANY
SAN JUAN COUNTY, UTAH

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Engineering report

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Present status	5
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ILLUSTRATIONS

Figure	Follows Page
1. Location map, Utah Premier group, Utah Premier Uranium Company, San Juan County, Utah DMEA 3648	2
2. Area map, Utah Premier group, Utah Premier Uranium Company, San Juan County, Utah. DMEA 3648	2

DMEA 3648
UTAH PREMIER GROUP
UTAH PREMIER URANIUM COMPANY
SAN JUAN COUNTY, UTAH

ENGINEERING REPORT

By

Carl Belser

INTRODUCTION

Utah Premier Uranium Company, 516 Continental Bank Building, Salt Lake City, Utah, on January 21, 1955, submitted an application for Defense Minerals Exploration Administration assistance on the Utah Premier group of claims in San Juan County, Utah. The application, DMEA 3648, requested aid in completing 32,600 feet of diamond drilling at an estimated cost of $172,980.00. Government participation at 75 percent would be $129,735.00. This proposed exploration was to test the basal member of the Chinle formation for Uranium mineralization.

A joint field inspection was made by a Geological Survey and Bureau of Mines examining team on March 23, 1955. The examining team, as a result of their investigations, recommended Government assistance in a very modified drilling project calling for 250 feet of first stage drilling, 1,330 feet of second stage drilling, 5,200 feet of third stage drilling, and 3,200 feet of fourth stage drilling at a total estimated cost of $25,636.50. Government participation at 75 percent would be $19,227.38.

ACKNOWLEDGMENTS

John Q. St. Clair, mining geologist, accompanied the examining team and represented the applicant.

W. P. Williams, Geologist, Colorado Plateau District, Geological Survey, Grand Junction, Colorado, assigned Gordon W. Weir, geologist, to make the examination as the Geological Survey member of the team. Weir was accompanied by C. L. Dodson and W. P. Williams, geologists.

The Atomic Energy Commission was consulted regarding the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The Utah Premier group consists of 34 unpatented claims in secs. 30 and 31, T. 30 S., R. 25 E., Salt Lake meridian, San Juan County, Utah.

The claims are several miles down the southwest flank of the Lisbon Valley anticline and cover almost all of one hill and portions of two other hills. (Figs. 1 and 2).

A fair 3-mile access road connects with a county road which junctions with U. S. highway 160 about 10 miles to the southwest. From the highway junction, Monticello, Utah is 24 miles south, Moab, Utah is 34 miles north, and Thompson on the Denver and Rio Grande Western railroad is 73 miles north.

Labor, supplies, and light equipment can be obtained in Monticello and Moab. The nearest railroad is at Thompson, Utah. Native timber and dimension lumber can be purchased at Moab and Monticello. Water for drilling purposes can be hauled from Dry Valley, and water for domestic purposes can be hauled from Moab or Monticello. Ore buying depots are at Thompson, Moab, and Monticello.

Altitudes, at the property, range from about 6,200 feet to 7,000 feet. Rainfall is light and the country is classed as semi-arid. Mining can be carried on throughout the year but traffic on the access roads becomes disrupted with heavy rains and spring thaws.

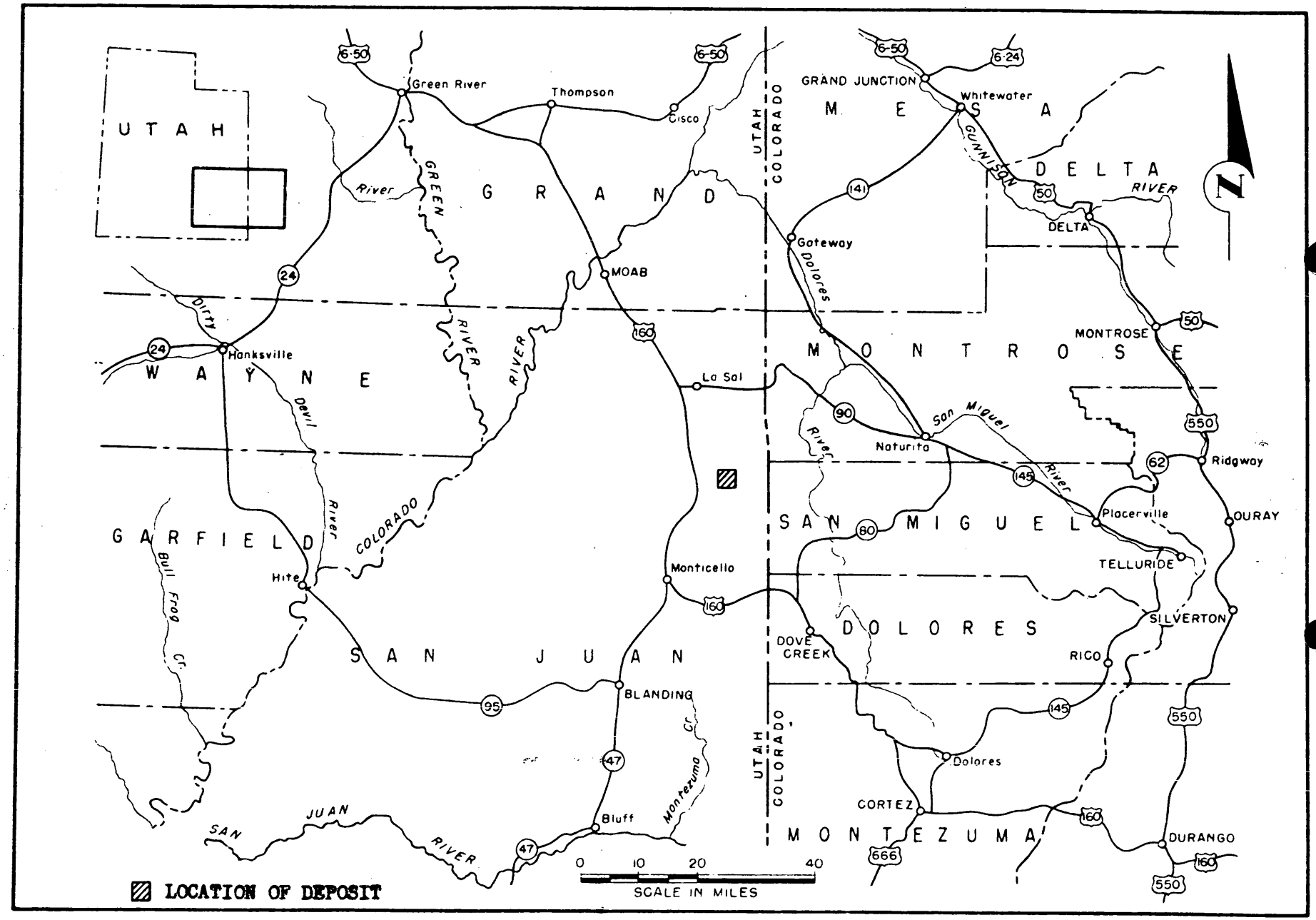

FIGURE 1 - LOCATION MAP, UTAH PREMIER GROUP, UTAH PREMIER URANIUM COMPANY, SAN JUAN COUNTY, UTAH.
DMEA 3648

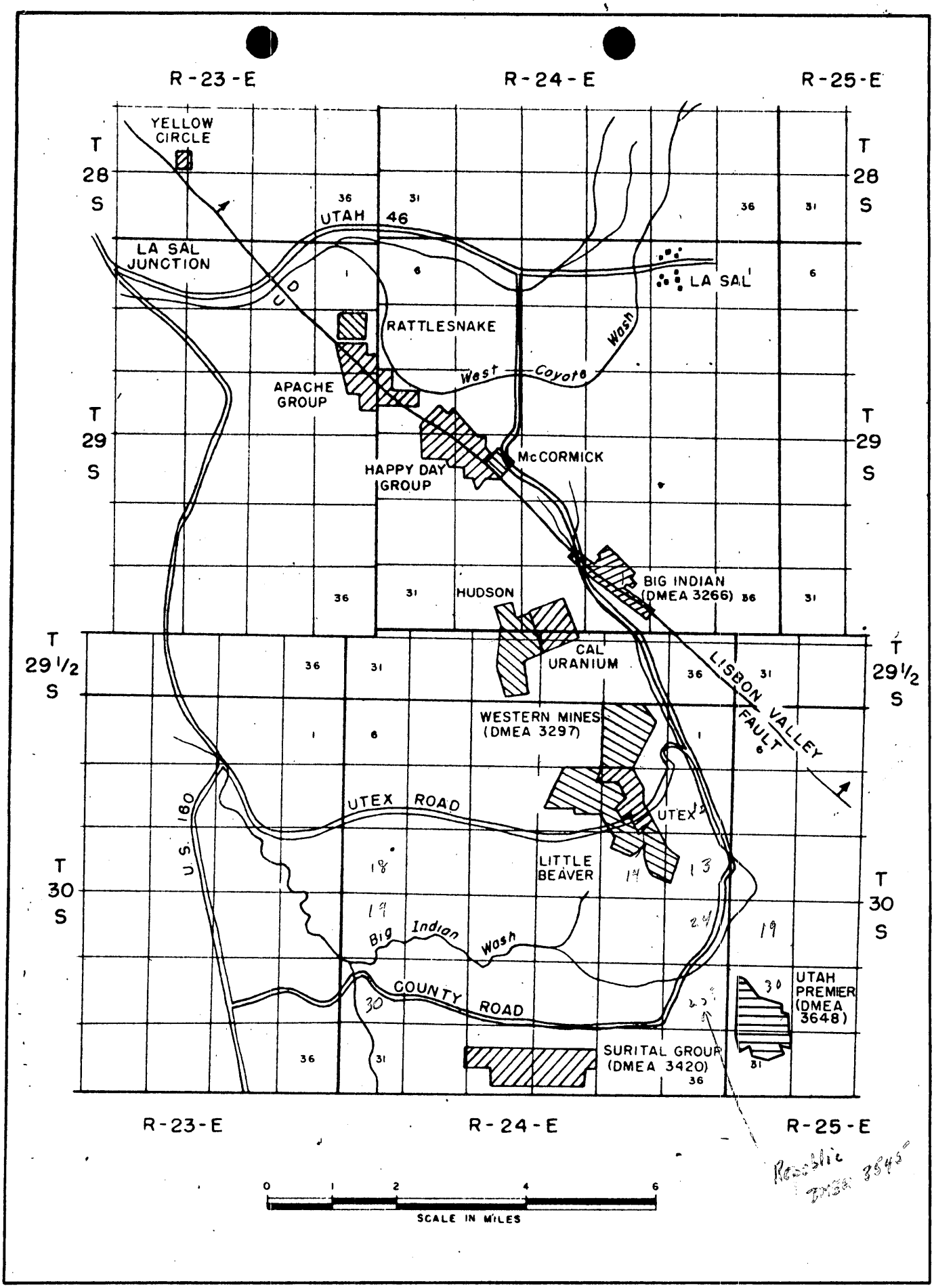

FIGURE 2 - AREA MAP, UTAH PREMIER GROUP, UTAH PREMIER URANIUM COMPANY, SAN JUAN COUNTY, UTAH. DMEA 3648

HISTORY AND PRODUCTION

Until the discovery of uranium in the basal Chinle formation in 1952 the area was considered to be barren of uranium mineralization. The Atomic Energy Commission drilled three holes on the property in August and September, 1953. These holes were considered as barren and the cores have been destroyed. The claims were located in 1953 and outside of the holes drilled by A. E. C., no work has been done on the property.

OWNERSHIP AND MINING

The property consists of 34 unpatented claims in a solid block located in secs. 30 and 31, T. 30 S., R. 25 E., Salt Lake Meridian. The claims are recorded in the office of the County Recorder of San Juan County, Utah as follows:

Claim	Book	Page	Date Recorded	Discovery Date	Locator
Brigham Tea #5	23	34	5/23/53	3/18/53	Patterson, Marshall, and Ballou
Brigham Tea #8 Fr.	47	492	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Brigham Tea #9 Fr.	47	492	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Brigham Tea #10 Fr.	47	492	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Crooked Wash	19	386	5/27/53	5/14/53	Patterson, Marshall, and Ballou
Crooked Wash Fr.	47	490	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Fair Hope	23	23	3/23/53	3/18/53	Patterson, Marshall, and Ballou
Fair Hope Fr.	47	491	1/15/54	12/8/53	Patterson, Marshall, and Ballou
Fair Hope #1 Fr.	97	4344			Patterson, Marshall, and Ballou
High Point	23	8			
High Point #1	19	143			
High Point #2	19	144			
High Point Fr.	47	490			

Claim	Book	Page	Date Recorded	Discovery Date	Locator
Lost Canyon #1	23	279	7/8/53	7/3/53	Patterson, Marshall, and Ballou
Lost Canyon #2	23	279	7/8/53	7/3/53	Patterson, Marshall, and Ballou
Lost Canyon #3 Fr.	47	494	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Lost Canyon #4 Fr.	47	494	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Old Crow #3	23	31	3/23/53	3/21/53	Patterson, Marshall, and Ballou
Old Crow #7 Fr.	47	488	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Old Crow #8 Fr.	47	488	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Old Crow #9 Fr.	47	489	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Old Crow #10 Fr.	47	489	1/15/54	12/18/53	Patterson, Marshall, and Ballou
Paramount #1	19	140	2/3/53	1/14/53	Patterson, Marshall, and Ballou
Paramount #2	19	141	2/3/53	1/14/53	Patterson, Marshall, and Ballou
Paramount #3	19	141	2/3/53	1/19/53	Patterson, Marshall, and Ballou
Paramount #4	19	142	2/3/53	1/29/53	Patterson, Marshall, and Ballou
Paramount #5	19	142	2/3/53	1/29/53	Patterson, Marshall, and Ballou
Paramount #6	19	143	2/3/53	1/29/53	Patterson, Marshall, and Ballou
Paramount #1 Fr.	49	105	1/18/54	12/20/53	Patterson, Marshall, and Ballou
Silver Pot	23	57	3/27/53	3/10/53	Lyle & Clara Francis
Silver Pot #2	23	58	3/27/53	3/10/53	Lyle & Clara Francis
Silver Pot #3	23	59	3/27/53	3/10/53	Lyle & Clara Francis
Silver Pot #4	23	59	3/27/53	3/10/53	Lyle & Clara Francis
Silver Pot #5	23	60	3/27/53	3/10/53	Lyle & Clara Francis

An agreement between G. O. Patterson, John L. Ballou, and John R. Marshall, parties of the first part and H. Evan Roberts, party of the second part was entered into on November 4, 1953 for a 5-year lease with the right of extension on 58 unpatented uranium claims.

An agreement to purchase 85 percent of the rights of H. Evan Roberts in 34 of the claims was made on September 28, 1954 between H. Evan Roberts and the Utah Premier Uranium Company.

Outside of the three drill holes put down by the A. E. C. in September, 1953, there appears to be no work done on the claims although the lease calls for 1,650 feet of drilling, or its equivalent, per month.

DESCRIPTION OF DEPOSITS

The exposed rocks on the Utah Premier claims range from the Cutler formation of Permian age, through the 400-foot thick Chinle formation of Triassic age, to the Wingate and Navajo formations of the Lower Jurassic. The only known ore occurrence is in the basal member of the Chinle formation.

Three holes drilled through the basal Chinle by the A. E. C. did not show any ore. A small area in the basal Chinle on the Crooked Wash claim shows radioactivity as does the mudstone directly beneath. The basal Chinle is gaseous and contains some carbonaceous trash. The mudstone is light grey. No production has been made from nearby mines.

MINABLE ORE RESERVES

There are no known minable ore reserves on the property.

PRESENT STATUS

Exploration and Development

With the exception of the three A. E. C. holes, no exploration or development work has been done on the property to date.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment or other facilities on the property.

PROPOSED EXPLORATION

The applicant proposed to explore the basal Chinle with 32,600 feet of diamond drilling to be drilled in three stages. Stage I consisted of 6,600 feet (15 holes) of diamond drilling. Stage II consisted of 19,500 feet (51 holes) of diamond drilling spaced on a 500-foot grid pattern. Stage III consisted of 6,500 feet of diamond drilling to delineate ore found in Stage I and Stage II drilling.

The total overall cost was estimated at $172,920.00.

The examining team does not believe that the property warrants a large drilling program at this time and suggests a four-stage drilling program as follows:

Stage I

250 feet of core drilling at an estimated cost of $1,380.00

Stage II

1,350 feet of diamond drilling at an estimated cost of $4,080.00

Stage III

5,200 feet of diamond drilling at an estimated cost of $12,356.50

Stage IV

3,200 feet of diamond drilling of offset holes at an estimated cost of $7,820.00

Total estimated cost of project	$25,636.50
Government participation, 75 percent	$19,227.38

The location of Stages I, II, and III are shown on figure 2 of the geological report.

ESTIMATED COST OF PROJECT

The application, as submitted, included the following estimated costs:

Estimated Cost of Diamond Drilling

The applicant's estimated costs follow:

Independent contracts		
32,600 feet of diamond drilling at $4.00 per foot	$130,400.00	
Bulldozing - clearing drill sites, roads, etc.	3,500.00	
Total independent contracts		$133,900.00
Labor and supervision		
Labor 2 men at $300 per month for 3 months	$ 1,800.00	
Geologist 3 months at $600.00 per month	1,800.00	
Clerk 3 months at $300.00 per month	900.00	
Superintendent 3 months at $600.00 per month	1,800.00	
Consultants	2,000.00	
Total labor and supervision		$ 8,300.00
Operating material and supplies		
(Lumped)	$ 2,000.00	
Total operating material and supplies		$ 2,000.00
Operating equipment		
1 - 3/4 ton truck (4 wheel drive)	$ 4,000.00	
1 - jeep station wagon	3,000.00	
Total operating equipment		$ 7,000.00
Initial rehabilitation and repairs		
None		
New buildings, improvements, etc.		
1 Butler building with core storage	$ 2,000.00	
Total new buildings, improvements, etc.		$ 2,000.00

Miscellaneous

(Lumped)	$ 3,000.00	
Assaying 200 assays at $5.00 each	1,000.00	
Total miscellaneous		$ 4,000.00

Contingencies

Contingencies (10 percent)	$ 15,780.00	
Total contingencies		$ 15,780.00
Total estimated diamond drilling costs		$178,220.00
Average cost per foot for 32,600 feet of drilling		$ 5.30

Engineer's Estimated Cost of Modified Project

The examining team's modified program, which was agreed to by Mr. St. Clair, recommends 10,000 feet of diamond drilling to be drilled in four stages. Stage I has an estimated 250 feet (5 holes) of core drill holes, Stage II 1,350 feet (6 holes) of drilling, Stage III 5,200 feet (13 holes) of drilling, and Stage IV 3,200 feet (9 holes) of offset holes. Each of the holes in Stages II, III, and IV to be cored their bottom 40 to 60 feet.

Estimated Cost of Drilling

Stage I

Core Drilling

Independent contracts

250 feet of BX or larger core drilling at $2.50 per foot	$ 625.00	
Bulldozing roads and drillsites 2 days at $100.00 per day	200.00	
Total independent contracts		$ 825.00

Labor and supervision

Labor		
1 sampler-helper. 1/3 month at $360.00 per month	$ 120.00	
Supervision		
1 geologist-engineer. 1/3 month at $700.00 per month	233.33	
Total labor and supervision		$ 353.33

Operating material and supplies

28 gallons gasoline at 33¢ per gal.	$ 9.24	
13 wooden core boxes at $5.00 each	65.00	
Survey stakes	3.00	
Total operating material and supplies		$ 77.24

Operating equipment

Depreciation		
1 jeep station wagon, value $2,400.00, for 1/3 month at $40.00 per month	$ 13.33	
Rental		
1 transit, etc. $45.00 per month, 1/3 month	15.00	
Total operating equipment		$ 28.33

Initial rehabilitation and repairs

None

New buildings, improvements, etc.

None

Miscellaneous

Accounting. 1/3 month at $60.00 per month	$ 20.00	
Liability and compensation insurance and payroll taxes. 5 percent of $373.33	18.67	
Maintenance of jeep, 1/3 month at $25.00 per month	8.33	
Total miscellaneous		$ 47.00
Total estimated cost of 250 feet of core drilling		**$1,330.90**
Cost per foot		$ 5.32

Time for completion 10 days

Stage II

Non-Core Drilling

Independent contracts

1,050 feet of non-core drilling at $2.00 per foot	$ 2,100.00	
Bulldozing roads and drillsites. 70 percent of 3 days bulldozing at $100.00 per day	210.00	
Total independent contracts		$ 2,310.00

Labor and supervision

Labor		
1 sampler-helper. 70 percent of 1/2 month at $360.00 per month	$ 126.00	
Supervision		
1 engineer-geologist. 70 percent of 1/2 month at $700.00 per month	245.00	
Total labor and supervision		$ 371.00

Operating materials and supplies

70 percent of 48 gals. gasoline at 32¢ per gal.	$ 9.41	
Survey stakes. 70 percent of $3.00	2.10	
Total operating materials and supplies		$ 11.51

Operating equipment

Depreciation		
1 jeep station wagon, value $2,400.00. 70 percent of 1/2 month at $40.00 per month	$ 14.00	
Rental		
1 transit, etc. 70 percent of 1/2 month at $45.00 per month	15.75	
Total operating equipment		$ 29.75

Initial rehabilitation and repairs

None

New buildings, improvements, etc.

None

Miscellaneous

Accounting. 70 percent of 1/2 month at $60.00 per month	$ 21.00	
Liability and compensation insurance and payroll taxes. 5 percent of $392.00	19.60	
Maintenance of jeep. 70 percent of $12.50	8.75	
Total miscellaneous		$ 49.35
Total estimated cost of 1,050 feet of non-core drilling		$ 2,771.61
Cost per foot		$ 2.64

Core Drilling

Independent contracts

300 feet of BX or larger core drilling at $3.00 per foot	$ 900.00	
Bulldozing roads and drill sites. 30 percent of 3 days at $100.00 per day	90.00	
Total independent contracts		$ 990.00

Labor and supervision

Labor		
1 sampler-helper. 30 percent of 1/2 month at $360.00 per month	$ 54.00	
Supervision		
1 engineer-geologist. 30 percent of 1/2 month at $700.00 per month	105.00	
Total labor and supervision		$ 159.00

Operating material and supplies

30 percent of 48 gallons of gasoline at 28¢ per gal.	$ 4.03	
Survey stakes. 30 percent of $3.00	.90	
10 wooden core boxes at $5.00 each	50.00	
Total operating material and supplies		$ 54.93

Operating equipment

Depreciation		
1 jeep station wagon, value $2,400.00. 30 percent of 1/2 month at $40.00 per month	$ 6.00	
Rental		
1 transit, etc. 30 percent of 1/2 month at $45.00 per month	6.75	
Total operating equipment		$ 12.75

Initial rehabilitation and repairs

None

New buildings, improvements, etc.

None

Miscellaneous

Accounting. 30 percent of 1/2 month at $60.00 per month	$ 9.00	
Liability and compensation insurance and payroll taxes, 5 percent of $168.00	8.40	
Maintenance of jeep. 30 percent of $12.50	3.75	
Total miscellaneous		$ 21.15
Total estimated cost of 300 feet of core drilling		$ 1,217.83
Cost per foot		$ 4.16

Stage III

Non-Core Drilling

Independent contracts

4,590 feet of non-core drilling at $1.75 per foot	$ 7,962.50	
Bulldozing roads and drill sites. 80 percent of 18 days at $100.00 per day	800.00	
Total independent contracts		$ 8,762.50

Labor and supervision

Labor		
1 sampler-helper. 80 percent of 1 month at $360.00 per month	$ 288.00	
Supervision		
1 engineer-geologist. (half time on job) 80 percent of 1/2 month at $700.00 per month	280.00	
Total labor and supervision		$ 568.00

Operating materials and supplies

80 percent of 34 gallons of gasoline at 32¢ per gal.	$ 21.90	
Survey stakes. 80 percent of $3.00	2.40	
Total operating materials and supplies		$ 23.90

Operating equipment

Depreciation		
1 jeep station wagon, value $2,400.00. 80 percent of 1 month at $40.00 per month	$ 32.00	
Rental		
1 transit, etc. 80 percent of 1 month at $45.00 per month	36.00	
Total operating equipment		$ 68.00

Initial rehabilitation and repairs

None

New buildings, improvements, etc.

None

Miscellaneous

Accounting. 80 percent of 1 month at $60.00 per month	$ 48.00	
Liability and compensation insurance and payroll taxes. 5 percent of $616.00	30.80	
Maintenance of jeep. 80 percent of $25.00	20.00	
Total miscellaneous		$ 98.80

Total estimated cost of 4,500 feet of non-core drilling		$ 9,511.20
Cost per feet		$ 2.09
Core Drilling		
Independent contracts		
650 feet of NX or larger core drilling at $3.50 per feet	$ 2,275.00	
Bulldozing roads and drill sites. 20 percent of 10 days at $100.00 per day	200.00	
Total independent contracts		$ 2,475.00
Labor and supervision		
Labor		
1 sampler-helper. 20 percent of 1 month at $360.00 per month	$ 72.00	
Supervision		
1 engineer-geologist (half time on job). 20 percent of 1/2 month at $700.00 per month	70.00	
Total labor and supervision		$ 142.00
Operating materials and supplies		
20 percent of 84 gallons gasoline at 32¢ per gal.	$ 5.38	
Survey stakes. 20 percent of $3.00	.60	
10 wooden core boxes at $5.00 each	50.00	
Total operating materials and supplies		$ 55.98
Operating equipment		
Depreciation		
1 jeep station wagon, value $2,400.00. 20 percent of 1 month at $40.00 per month	$ 8.00	
Rental		
1 transit, etc. 20 percent of 1 month at $45.00 per month	9.00	
Total operating equipment		$ 17.00

Initial rehabilitation and repairs

None

New buildings, improvements, etc.

None

Miscellaneous

Accounting. 20 percent of 1 month at $60.00 per month	$ 12.00	
Liability and compensation insurance, and payroll taxes. 5 percent of $154.00	7.70	
Maintenance of jeep. 20 percent of 1 month at $25.00 per month	5.00	
Total miscellaneous		$ 24.70
Total estimated cost of 656 feet of core drilling		$ 2,724.68
Cost per foot		$ 4.18

Stage IV

Non-Core Drilling

Independent contracts

2,730 feet of non-core drilling at $1.75 per foot	$ 4,812.50	
Bulldozing roads and drill sites. 80 percent of 4 days at $100.00 per day	320.00	
Total independent contracts		$ 5,132.50

Labor and supervision

Labor		
1 sampler-helper. 80 percent of 1 month at $360.00 per month	$ 288.00	
Supervision		
1 engineer-geologist (half time on job). 80 percent of 1/2 month at $700.00 per month	280.00	
Total labor and supervision		$ 568.00

Operating materials and supplies		
80 percent of 84 gallons gasoline at 30¢ per gal.	$ 21.50	
Survey stakes. 80 percent of $2.00	1.60	
Total operating materials and supplies		$ 23.10
Operating equipment		
Depreciation		
1 jeep station wagon, value $2,400.00. 80 percent of 1 month at $40.00 per month	$ 32.00	
Rental		
1 transit, etc. 80 percent of 1 month at $45.00 per month	36.00	
Total operating equipment		$ 68.00
Initial rehabilitation and repairs		
None		
New buildings, improvements, etc.		
None		
Miscellaneous		
Accounting. 80 percent of 1 month at $60.00 per month	$ 48.00	
Liability and compensation insurance and payroll taxes. 5 percent of $616.00	30.80	
Maintenance of jeep. 80 percent of 1 month at $25.00 per month	20.00	
Total miscellaneous		$ 98.80
Total estimated cost of 2,750 feet of non-core drilling		$ 5,890.40
Cost per foot		$ 2.14

Core Drilling

Independent contracts

450 feet of core drilling at $3.50 per foot	$ 1,575.00	
Bulldozing roads and drill sites. 20 percent of 4 days at $100.00 per day	80.00	
Total independent contracts		$ 1,655.00

Labor and supervision

Labor		
1 sampler-helper. 20 percent of 1 month at $360.00 per month	$ 72.00	
Supervision		
1 engineer-geologist (half time on job). 20 percent of 1/2 month at $700.00 per month	70.00	
Total labor and supervision		$ 142.00

Operating materials and supplies

20 percent of 84 gallons gasoline at 32¢ per gal.	$ 5.38	
Survey stakes. 20 percent of $2.00	.40	
Core boxes - none		
Total operating materials and supplies		$ 5.78

Operating equipment

Depreciation		
1 jeep station wagon, value $2,400.00. 20 percent of 1 month at $40.00 per month	$ 8.00	
Rental		
1 transit, etc. 20 percent of 1 month at $45.00 per month	9.00	
Total operating equipment		$ 17.00

Initial rehabilitation and repairs

None

New buildings, improvements, etc.

None

Miscellaneous

Accounting. 20 percent of 1 month at $60.00 per month	$ 12.00	
Liability and compensation insurance and payroll taxes. 5 percent of $154.00	7.70	
Maintenance of jeep. 20 percent of 1 month at $25.00 per month	5.00	
Total miscellaneous		$ 24.70
Total estimated cost of 450 feet of core drilling		$1,844.48
Cost per foot		$ 4.10

SUMMARY COST OF PROJECT

Stage I

250 feet of BX (or larger) coring at $5.32 a foot	$ 1,330.00
10 assays at $5.00 each	50.00
Total estimated cost of Stage I	$ 1,380.00

Stage II

1,050 feet of non-core drilling at $2.64 a foot	$ 2,772.00
300 feet of core drilling at $4.16 a foot	1,248.00
12 assays at $5.00 each	60.00
Total estimated cost of Stage II	$ 4,080.00

Stage III

4,350 feet of non-core drilling at $2.09 a foot	$ 9,509.50
650 feet of core drilling at $4.18 a foot	2,717.00
26 assays at $5.00 each	130.00
Total estimated cost of Stage III	$12,356.50

Stage IV

2,750 feet of non-core drilling at $2.14 a foot	$ 5,885.00
450 feet of core drilling at $4.10 a foot	1,845.00
18 assays at $5.00 each	90.00
Total estimated cost of Stage IV	$ 7,820.00
Total estimated cost of project	$25,636.50
Government participation - 75 percent	$19,227.38
Time required for completion	3 months

CONCLUSIONS

Although no uranium ore has been developed on the property the Utah Premier group lies but three miles south of an area noted for large uranium ore deposits. A small exposure of uranium mineralization is located on the Crooked Wash claim. The examining team believes that the property merits a small amount of exploration near the uranium mineralized exposure, followed by more extensive exploration provided that the preliminary exploration proves favorable.

RECOMMENDATIONS

It is recommended that a short-form contract be prepared for a four-stage program consisting of:

Stage I

Core drilling a maximum of 250 feet (5 holes) near the uranium mineralized exposure on the Crooked Wash claim, located as shown on figure 2 of the geological report, and chemical assaying a maximum of 10 samples. The recommended cost of 250 feet of core drilling is $5.32 a foot or $1,330.00. The recommended cost of 10 chemical assays is $5.00 each or $50.00. The recommended total cost of Stage I is $1,380.00.

Stage II

Non-core drilling a maximum of 1,050 feet (6 holes), located as shown on figure 2 of the geological report, core drilling a maximum of 300 feet (the bottom 40 to 60 feet of the 6 holes mentioned above) and chemical assaying a maximum of 12 samples. The recommended cost of 1,050 feet of non-core drilling is $2.64 a foot or $2,772.00, the recommended cost of 300 feet of core drilling is $4.16 a foot or $1,248.00, and the recommended cost of 12 chemical assays is $5.00 each or $60.00. The recommended total cost of Stage II is $4,080.00.

Stage III

Non-core drilling a maximum of 4,550 feet (13 holes), located as shown on figure 2 of the geological report, core drilling a maximum of 650 feet (the bottom 40 to 60 feet of the 13 holes mentioned above), and the chemical assaying of a maximum of 26 samples. The recommended cost for 4,550 feet of non-core drilling is $2.09 a foot or $9,509.50, the recommended cost for 650 feet of core drilling is $4.18 a foot or $2,717.00, and the recommended cost for 26 chemical assays is $5.00 each or $130.00. The recommended total cost of Stage III is $12,356.50.

Stage IV

Non-core drilling a maximum of 2,750 feet (9 holes), of offset drilling to delimate ore found by previous drilling, core drilling a maximum of 450 feet (the bottom 40 to 60 feet of the 9 holes mentioned above), and the chemical assaying of a maximum of 18 samples. The recommended cost for 2,750 feet of non-core drilling is $2.14 a foot or $5,885.00, the recommended cost for 450 feet of core drilling is $4.10 a foot or $1,845.00, and the recommended cost of 18 chemical assays is $5.00 each or $90.00. The recommended total cost for Stage IV is $7,820.00.

The recommended total cost for the entire project is $25,636.50.

Government participation - 75 percent $19,227.38.

General recommendations for all four stages

All holes are to be cored their bottom 40 (minimum) to 60 (maximum) feet and should be cored AX size or larger. All holes should be bottomed at the end of the first coring run showing sediments of the Cutler formation. All cores will be boxed and marked as to hole

number and footage and properly stored for examination by the Government. All holes will be logged their entire depth with suitable radioactivity detection instruments. All mineralized core will be split by the operator and submitted for chemical analysis for WO_3, V_2O_5, and $CuSO_3$. A split of all core, barren, mineralized, or ore, will be retained for use of the Government.

At the completion of work authorized under each stage, and before work under the successive stage will be authorized, the operator will furnish the Government an accurate map showing the locations, hole numbers, and collar elevations of all holes drilled under the particular stage and accompanied by lithologic logs and radioactivity survey logs of the holes drilled, certified by the operator as being correct. After each stage of work is completed, data submitted to the Government will be evaluated by the Government before the next stage of work is begun. No stage of the work will be started without prior authorization by the DMEA Field Team, Region XII. Drillers daily drilling reports will be submitted with the 104 forms.

/mh

DMEA
Date Rec'd MAY 16 1955
BUREAU OF MINES
Denver, Colorado

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

May 9, 1955

TRANSMITTED
MAY 12 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3648 (Uranium), Utah Premier Uranium Company, Utah Premier claim group, San Juan County, Utah

Enclosed are 10 copies of a geologic report by G. W. Weir of the U. S. Geological Survey on the subject application, and 9 extra copies of the maps accompanying the report.

The claims lie in an area known to contain large deposits of uranium ore. Although there is only one small outcrop of mineralized rock on the property, Weir concludes that the property may contain large deposits of uranium ore. He recommends that a reduced program acceptable to the applicant, providing for a total of 10,000 feet of drilling set up in 4 stages, be approved.

In an annex to this report Weir refers to an application by the Republic Uranium Company (DMEA Docket 3545) for assistance to explore the Paramount claims adjoining those of the Utah Premier group. Although the geologic setting of the two groups is the same, Weir recommends that the Republic Uranium Company application (Docket 3545) be denied without prejudice because the Paramount claims show no evidence of mineralization.

It appears that a reconciliation of the two recommendations may be necessary.

for DRMacLaren
E. N. Harshman
Member, Field Team

Enclosures (28)

DRMacLaren:arh

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. BOX 360
GRAND JUNCTION, COLORADO

April 25, 1955

Memorandum

To: E. N. Harshman

From: W. P. Williams

Subject: DMEA 3648, Utah Premier Uranium Company, Utah Premier group of claims, San Juan County, Utah

Transmitted herewith are eleven copies of a geologic report by G. W. Weir covering the field examination of the above referenced property.

The Utah Premier claims have a small outcrop of mineralized rock and the claims lie in a mining area that is known to contain large uranium ore deposits. Geologic conditions and the proposed exploration program are similar to other successful exploration programs that were based on similar limited evidence of mineralization. Weir recommends that a DMEA contract be approved to provide for a total of about 10 thousand feet of drilling in four stages. Stages 1 and 2 are on a very moderate scale and I concur with Weir's recommendation.

Messrs. Y. W. Isachesen and H. M. Dahl, geologists Atomic Energy Commission, Grand Junction Operations Office, were asked for information and advice in evaluating the property.

We are enclosing nine extra copies of the maps accompanying Weir's report. Also returned herewith is the brochure covering this application.

W P Williams

W. P. Williams
Geologist

Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3648, Utah Premier Uranium Company, Utah Premier group of claims, San Juan County, Utah

Uranium

Geologic Report

by

G. W. Weir
U. S. Geological Survey

April 1955

INTRODUCTION AND SUMMARY

The Utah Premier Uranium Company, Salt Lake City, Utah, has applied to the Defense Minerals Exploration Administration for a loan to explore for uranium by drilling the basal part of the Chinle formation underlying the Utah Premier group of claims. The group of claims lies in parts of secs. 29, 30, 31, and 32, T. 30 S., R. 25 E., S.L.P.M., San Juan County, Utah (fig. 1). The property was examined on March 23, 1955, by Messrs. Carl Beiser, U. S. Bureau of Mines, and G. W. Weir, C. L. Dodson, and W. P. Williams, U. S. Geological Survey, accompanied by Mr. John Q. St. Clair, acting for the applicants. The applicants' program and copies of logs made by geologists of the Atomic Energy Commission of holes previously drilled on the property were reviewed with Messrs. Y. W. Isachsen and H. M. Dahl, AEC geologists.

The applicants proposed a drilling program of three stages: Stage 1) 20 holes located on a 1,000-foot grid, stage 2) 51 holes located on a 500-foot grid; stage 3) supplementary drilling to outline mineralized and ore zones. Surface stripping or trenching or a series of shallow holes behind a small mineralized outcrop on the Crooked Wash claim was also planned. Total drilling footage required for the program was estimated by the applicants to be about 32,600 feet and total cost was estimated to be $172,920.

Because the Utah Premier group has a small outcrop of mineralized rock and because it lies in a mining area that is known to contain large deposits of uranium ore, the examining team recommends that a loan be granted for the exploration of the property. The risks involved in the proposed exploration program are large, but the program is similar to the successful exploration programs in the area based on similar limited evidence of mineralization. The examining team proposes that the applicant's program be modified to consist of four stages. The objectives of stage 1 and 2 are to determine by relatively shallow drilling the approximate extent of uranium ore lying behind the mineralized outcrop on the property and to find similar relatively shallow ore bodies in the same general area. The objectives of stages 3 and 4 are to find and to determine the approximate extent of more deeply buried presumably larger ore bodies. Stage 1 consists of drilling 5 holes on 100-foot centers at specified locations behind the mineralized outcrop, requiring an estimated 250 feet. Stage 2 consists of drilling a maximum of 6 holes on 50- to 250-foot spacing in a designated area farther away from the mineralized outcrop requiring an estimated 1,350 feet. Stage 3 consists of drilling two lines of holes about 2,500 feet apart with holes in each line about 500 feet apart requiring an estimated 5,200 feet. Stage 4 consists of offset drilling of mineralized and ore holes found by previous work requiring an estimated 3,200 feet. Total maximum footage for the entire project is estimated to be 10,000 feet. Mr. Belser, Bureau of Mines, will submit a separate report on the engineering and cost aspects of the proposed program.

GEOLOGY

The general geologic setting of the Utah Premier group of claims is shown in figure 2. The contacts shown on the map are only approximate in places.

Stratigraphy.--The Cutler formation of Permian age is the oldest formation exposed on the property. It consists mainly of red, purple, and brown mudstone and red, purple, and white sandstone and conglomerate. The Cutler formation is overlain unconformably by the Chinle formation. The contact is exposed on the Crooked Wash claim though it is not shown on the geologic map (fig. 2). The Chinle-Cutler contact can generally be recognized in drill core by the first appearance of red and brown rocks below the contrasting green mudstone and gray sandstone of the Chinle formation.

The Chinle formation of Upper Triassic age is the chief ore-bearing formation in the mining area. The Chinle is estimated to be about 350-400 feet thick. It consists of red and green mudstone and red and gray sandstone, siltstone, and conglomeratic sandstone and rests unconformably on the Cutler formation. Large uranium ore deposits are known to occur in an ill-defined basal member that is probably equivalent to the Moss Back member of the Chinle to the west. The basal member consists of gray and greenish-gray sandstone, sandy siltstone and conglomeratic sandstone with green mudstone. The basal member, here called the lower Chinle, ranges from a knife-edge to more than 10 feet along the outcrop on the company claims. The Chinle formation and especially the lower Chinle are believed to possibly thicken southwesterly away from the outcrop.

The Wingate sandstone of Upper Triassic age overlies the Chinle formation, possibly with small local unconformity. The Wingate is a massive crossbedded, fine-grained, orange sandstone. It is estimated to attain a full thickness of about 350 feet, but over most of the property part of the formation has been removed and an average thickness of the remaining Wingate is estimated to be about 200 feet.

The Kayenta formation of Lower Jurassic(?) age conformably overlies the Wingate formation. It consists mainly of interstratified red mudstone and sandstone. The full thickness of the Kayenta is about 250 feet but probably only the basal 150 feet is exposed on the property.

Quaternary fine-grained orange-brown alluvium covers about one-fourth of the property. The thickness of this material on the property was not determined but exposures nearby suggest that it may generally exceed 15 feet.

Structure.--The Utah Premier group of claims are on the southwest flank of the Lisbon Valley anticline. The Lisbon Valley anticline is believed to be underlain by a thickened roll of salt in the Paradox member of the Hermosa formation of Pennsylvanian age. The anticline probably existed as a structural and topographic high since the late Paleozoic; probably all nearly Mesozoic formations are slightly thinner near the axis of the structure. The beds on the property strike about N. 55° W.; dips decrease from about 14° S.W. near the north part of the property to about 6° S.W. on the south part of the property. No faults are known on or near the property, but the Wingate sandstone shows a well-developed set of vertical joints that trends northwesterly about parallel with the strike of the beds.

APPRAISAL OF THE URANIUM ORE POTENTIAL

One small outcrop of mineralized material on the Utah Premier group of claims is known to the writer. This outcrop is located in the north-central part of the Crooked Wash claim (fig. 2). The mineralized material seen in place was slightly less than one foot thick and a few feet wide. Exposures were poor, however, and the full width of the deposit may be significantly larger. The applicant reports two assays of this material:

No. 2196-1	Detrital material from slope below mineralized outcrop	0.05% U_3O_8, 0.97% V_2O_5
No. 2196-2	Grab sample from mineralized outcrop	0.30% U_3O_8, 1.56% V_2O_5, 3.3% $CaCO_3$

These data suggest that the average mineralized material of the outcrop would be of ore grade (more than 0.10% U_3O_8 or 1.00% V_2O_5), though it is not of ore thickness (one foot or more).

The mineralized material occurs in the lower Chinle in a lenticular medium-grained arkosic sandstone a few feet above the Chinle-Cutler contact. The ore-bearing sandstone is about 10 feet thick near the mineralized outcrop and thins abruptly to about 2 to 4 feet about 100 feet west and about 50 feet east of the mineralized outcrop. Probably the lens is elongate in a southeasterly to southwesterly direction. Most ore bodies in the mining area are rudely elongate, parallel to the structural contours or sedimentation trends, which in this area are practically coincident.

The mineralized outcrop and thickness and lithology of the ore-bearing bed is similar to those observed by the writer at the Service Berry and Divide claims about 3 miles east of the outcrop. The Service Berry mine is estimated to have produced about 400 tons of uranium ore; the Divide claims, about 200 tons. Thus the writer judges that the most likely exploration target size in and near the mineralized outcrop is a uranium ore body measurable in a few to several hundreds of tons. Such ore bodies, if found, probably would be minable at the relatively shallow depths encountered on the Crooked Wash and immediately adjacent claims; more important, the finding of such ore bodies would suggest the possibility of finding larger ore bodies in the more deeply buried ground farther back from the outcrop.

The appraisal of the more deeply buried ground in the Utah Premier group is difficult. Five holes drilled near the rim are barren. Because the ore-bearing sandstone is thicker in holes BW-101 and BW-103, they were judged by AEC geologists to be relatively more favorable than holes BW-102, BW-104, and R-2. Stage 3 of the proposed exploration is planned to test the deeply buried ground southerly from the relatively favorable holes BW-101 and BW-103.

Although the Utah Premier group lies in a mining area noted for the frequency of large uranium deposits commonly measurable in tens of thousands of tons, known large ore deposits are not close to the property. The nearest known large deposits are the North American Co. deposit and C. A. Steen's Utex Co. (Mi Vida mine) deposit about 3-1/2 miles northwest of the Utah Premier group. The Continental Uranium Co. School section no. 36 deposit, also large-sized, lies about 4-1/2 miles east of the Utah Premier group. Two holes drilled on the neighboring claims (the Republic group) immediately west were barren. An unknown number of holes (perhaps about a dozen) drilled on the property (Queen Esther group, School Section 32) immediately east of the Utah Premier group also are believed to be barren. In the examining geologist's opinion the area between Steen's Mi Vida mine and the Continental Uranium School sec. 36 mine is too little explored to give cause for a ngegative appraisal of the ground.

Geologists of the Atomic Energy Commission have noted that the significant ore deposits as presently known with only a few exceptions all lie between the elevations 6,200 and 6,700 feet. These contours enclose a belt slightly more than one-half mile wide. There are probably several hypotheses to explain this apparent structural control; one mentioned by AEC geologists is that uranium ore may be restricted to the former position of an oil pool bounded by water at the 6,200-foot level and by gas at the 6,700-foot level. The apparent structural control is an interpretation based on all currently available drill hole information by AEC geologists; they note that future deep drilling may result in a revision of the pattern of ore deposits. The significance of this interpretation for the Utah Premier group is that practically all of the Utah Premier group lies south of the belt enclosing most known ore deposits; that is, most of the group lies below the 6,200-foot contour. Thus, current interpretation of drilling data by AEC geologists suggests that the Utah Premier group is unlikely to contain large uranium deposits.

Large uranium deposits in the area are restricted to relatively thicker portions of the Chinle formation. No large deposits have been found where the lower Chinle is less than 30-35 feet thick. This minimum favorable thickness contrasts with observed thicknesses at the outcrop on the Utah Premier group which probably average less than 10 feet. There is suggestive evidence at several outcrops in the mining area that the Chinle formation thickens away from the Lisbon Valley anticline, and the writer hypothesizes that the lower Chinle has this thickening. By this hypothesis the southern part of the Utah Premier group would be much more favorable for large ore deposits than the claims near the outcrop. Furthermore, evidence of mineralization near the rim is interpreted by the writer as suggesting that much of the Utah Premier group may have been subject to the influence of mineralizing solutions and that the thicker lower Chinle may contain significant ore deposits.

To review and summarize, the following points, which are largely interpretative, are believed by the writer to support the recommendation for the drilling program subsequently described:

1) A mineralized outcrop on the property suggests that small deposits may be found in an area close to the rim.

2) The ore-bearing unit is believed to thicken away from the rim and to be able to accommodate large uranium deposits in the deeper ground.

3) The mineralized outcrop suggests that much of the area may have been exposed to the influence of mineralizing solutions and the significant ore bodies may be found in the thicker more deeply buried ore-bearing unit away from the rim.

4) The five holes drilled in relatively shallow ground do not constitute an adequate test of the property.

On the other hand, the following points, which are also largely interpretative, support a recommendation for denial of the proposed exploration:

1) There is no definite evidence that the mineralized outcrop is part of an ore body or definitely indicates ground favorable for significant ore deposits.

2) There is no definite evidence on the property that the ore-bearing unit thickens away from the outcrop.

3) The group of claims lies outside a belt based on structural contours that contains most all known large deposits.

4) The five holes drilled on the property show no mineralized rock and give no definite evidence of the presence of ground favorable for significant ore deposits.

The examining geologist gives more weight to those arguments favoring the possibility of significant ore deposits existing on the property and, therefore, recommends that a loan be granted for the exploration of the Utah Premier group of claims.

The risks involved in the proposed exploration on the Utah Premier group of claims is large but the proposed program is similar to successful exploration programs in the area based on similar limited evidence of mineralization. It is a puzzling peculiarity of the area that though large ore bodies are relatively common, none have been developed from exposures at the outcrop. Small mineralized outcrops do occur in the same general area that large ore bodies are found, but it is almost certain that none of these mineralized outcrops are connected continuously with the large ore bodies found a few hundred to more than a thousand feet back of the rim. It is on this general relationship that the writer believed that the mineralized outcrop on the Crooked Wash claim does not indicate the presence of a large ore body near that outcrop, but that the mineralized outcrop does suggest that much of the Utah Premier group may have been exposed to the influence of mineralizing solutions and that large ore bodies may be found in the more deeply buried probably thicker ore-bearing unit away from the rim.

PROPOSED EXPLORATION

The applicant's proposal is described briefly on page 1. The examining team believes the program should be revised first to determine trends and widths of mineralized rock and ground favorable for ore deposits and second to determine the linear extent of ore deposits. Mr. John Q. St. Clair, acting for the applicant concurs in this opinion and agrees to the alternate program described below.

The proposed exploration consists of diamond drilling in four stages. The objectives of stages 1 and 2 are to find and partly delineate uranium ore bodies in an area near the outcrop of mineralized rock on the Crooked Wash claim. The objectives of stages 3 and 4 are to find and partly delineate uranium ore bodies in more deeply buried ground.

Stage 1 consists of drilling 5 holes on about 100-foot centers at specified locations behind the mineralized outcrop on the Crooked Wash claim. The recommended locations of stage 1 holes are shown on figure 2. Hole depths are estimated to range from about 35 to 60 feet and to average about 50 feet. Total estimated required footage for stage 1 drilling is 250 feet.

Stage 2 drilling consists of drilling a maximum of 6 holes on 50-250 foot spacing from other holes in a designated area near the mineralized outcrop on the Crooked Wash claim. The recommended area for stage 2 drilling is shown on figure 2. Hole depths are estimated to range from about 50 feet to 350 feet and to average about 225 feet. Total estimated required footage for stage 2 drilling is 1,350 feet.

Stage 3 drilling consists of drilling two lines of holes about 2,000 feet apart with holes in each line spaced about 500 feet apart. (The 500-foot spacing is the estimated average width of larger ore deposits in the mining area; generally they are much longer than wide.) It is estimated that 13 holes will be required. The recommended locations of stage 3 holes are shown on figure 2. Hole depths are estimated to range from about 100 feet to 600 feet and to average about 400 feet. Total estimated required footage from stage 3 drilling is 5,200 feet.

Stage 4 drilling consists of offset drilling of mineralized and ore holes found by previous work. Footage allotted to stage 4 is 3,200 feet probably permitting about 8 offset holes.

Total estimated footage for the entire program is estimated to be 10,000 feet. Total footage cored for the entire program is estimated to be about 1,500-2,000 feet.

The following general considerations apply to the entire exploration program:

All holes will be cored their bottom 40 (minimum) to 60 (maximum) feet. All holes will be bottomed at the end of the first coring run showing sediments of the Cutler formation. All cores will be boxed and marked as to hole number and footage and properly stored for examination by the Government. All holes will be logged their entire depth by suitable radioactivity detection instruments. All mineralized core will be split by the Operator and submitted for chemical analysis for U_3O_8, V_2O_5, and $CaCO_3$. A split of all core--barren, mineralized or ore--will be retained for the use of the Government.

At the completion of work authorized under each stage and before work under the successive stage will be authorized the Operator will furnish the Government an accurate map showing the locations, hole numbers, and collar elevations of all holes drilled under the particular stage accompanied by lithologic logs and radioactivity survey logs of the holes drilled, certified by the Operator as being correct. After each stage of work is completed, data submitted by the applicant will be evaluated by the Government before the next stage of work is begun. No stage of the work will be started without prior authorization by the DMEA Field Team, Region III.

SUMMARY AND RECOMMENDATIONS

The examining geologist recommends that a loan be granted for exploration of the Utah Premier group of claims. Although no uranium ore is presently known on the property, the group lies in an area noted for large uranium deposits, contains a small mineralized outcrop, and may potentially contain large uranium ore deposits. The examining geologist, recommends that a DMEA contract be approved to provide for an exploration program as outlined above. The above exploration program has been reviewed and verbally approved by Mr. John Q. St. Clair acting for the applicants.

ANNEX

The Republic Uranium Company has applied (DMEA 3345) for a loan to explore the Paramount claims which adjoining on the west the Utah Premier group. The geologic setting of the Paramount claims is similar to that of the Utah Premier group. However, the Utah Premier group has some evidence of mineralization; the Paramount claims have none. Therefore it is recommended that the application for a loan to explore the Paramount claims be denied without predjudice because of the lack of positive evidence of mineralization.

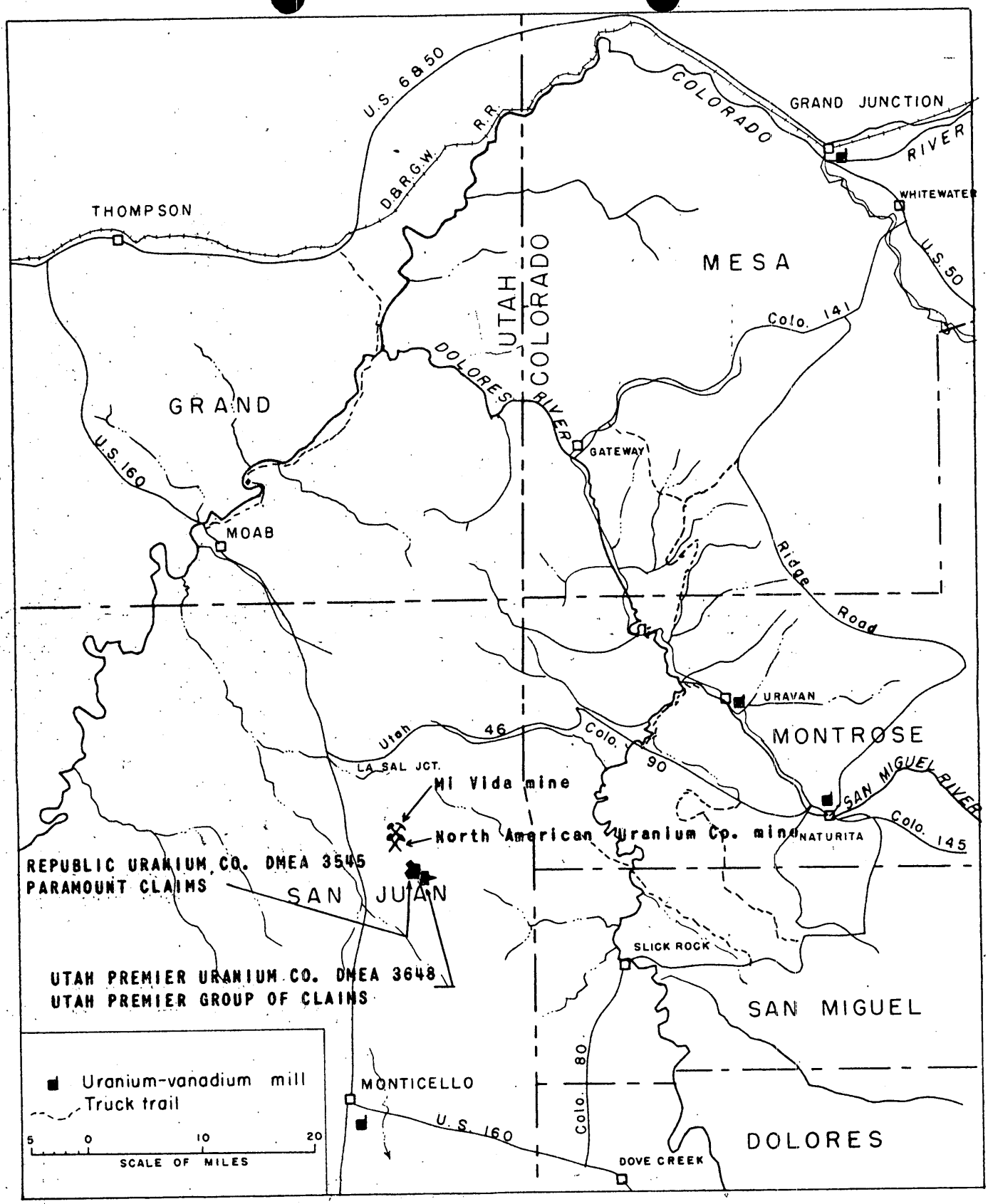

Figure 1. INDEX MAP OF PART OF COLORADO PLATEAU SHOWING LOCATION OF UTAH PREMIER URANIUM CO. PROPERTY AND REPUBLIC URANIUM CO. PROPERTY, SAN JUAN COUNTY, UTAH

4/4/55 gla

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

224 New Customhouse
Denver 2, Colorado

April 1, 1955

Memorandum

To: J. F. Shaw
W. P. Williams

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3545 (Uranium), Republic Uranium Company, Inc. (Paramount claim)
and
Docket DMEA 3648 (Uranium), Utah Premier Uranium Company (Utah Premier group,
San Juan County, Utah

Attached is a copy of a letter from the Chairman of the Operating Committee dated March 29, 1955 with reference to both of the subject dockets which is self-explanatory.

Docket DMEA 3545 was referred to the Geological Survey November 9, 1954. A memorandum by W.P. Williams dated January 14, 1955, with covering transmittal by E.N. Harshman of January 26, 1955 was forwarded to Washington by the Region III Field Team January 27, 1955 and copies distributed.

Docket DMEA 3648 was referred to the field February 24 and weekly reports indicate a joint field examination was made March 23, 1955.

You may find it pertinent to make some reference to both applications in your reports on the last mentioned docket in view of the subject memo and the copy of the Acting Chairman of the Operating Committee's transmitted letter of the docket under date of February 21, 1955.

W. M. Traver

Enclosure

WMT/JP
cc Subject (DMEA 3545)
Subject (DMEA 3648)
Chron
Harshman w/encl
Chairman, Op. Comm.

700

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

Surname copy

Ellis Selfridge
Johnson
Hettendorf

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

MAR 29 1955

Re: Docket No. DMEA-3545 (Uranium)
Republic Uranium Company, Inc.
Paramount claims
San Juan County, Utah

Dear Mr. Traver:

In your memorandum of March 21, concerning the captioned docket, you requested information as to the present status of the subject application.

We are withholding action pending the Field Team report on the Utah Premier Uranium Company's application, Docket No. DMEA-3648. This application was referred to the Field Team on February 21. You will note the last paragraph of the field referral letter suggests that the field examiners give further consideration to the Paramount claims of the subject application since the two groups of claims are adjoining. You will also note that both companies have the same Washington representative.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/B)

APPROVED:

J. H. Hedges (2/B)
Member, Bureau of Mines

S/ R. D. Trace (2/B)
Member, Geological Survey

EWEllis/gla
3-25-55
cc to: Admr. Reading File
Operating Committee
Docket DMEA-3545
Docket DMEA-3648
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700

R.C.S.

3/25/55-gla

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

224 New Customhouse
Denver 2, Colorado

March 21, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3545 (Uranium), Republic Uranium, Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

Please advise us of the present status of the subject application. Our files indicate that the last correspondence for this docket was dated January 27, 1955. On this date, Region III DMEA office transmitted four copies of a report by W. P. Williams and covering memorandum by E. N. Harshman.

W. M. Traver

W. M. Traver

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

224 New Customhouse
Denver 2, Colorado

March 21, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3545 (Uranium), Republic Uranium, Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

Please advise us of the present status of the subject application. Our files indicate that the last correspondence for this docket was dated January 27, 1955. On this date, Region III DMEA office transmitted four copies of a report by W. P. Williams and covering memorandum by E. N. Harshman.

W. M. TRAVER,

W. M. Traver

700

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

Surname copy
Murphy
Martin

FEB 21 1955

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

DMEA-3648

Re: Docket No. DMEA-3648 (Uranium)
Utah Premier Uranium Company
Utah Premier Group
San Juan County, Utah

Dear Mr. Traver:

The subject application is referred to Region III Field Team for a field examination and recommendation. A copy of the application was forwarded to your office on January 25.

Enclosed are copies of memoranda from John E. Crawford, dated January 27, and E. L. Newcomb, dated January 31, 1955, members of the Uranium Commodity Committee. However, these memoranda were written prior to receipt of additional information (Addendum I) on exposed mineralization. A copy of this report is enclosed for your file. The Commodity Committee have received their copies of said report.

Since the Paramount claims of the Republic Uranium Co., Inc., (Docket No. DMEA-3545 - uranium) adjoin the Utah Premier Group, probably the field examiners should give some attention to the fact in order to pick up any additional information which might be helpful in reaching a decision on both proposed projects.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

Enclosures5

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

EWEllis/gla
2-16-55
cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-3648
Docket DMEA-3545
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J.O. Hosted, Rm. 3210 GSA
Code 700

R.C.S.

2/17/5-5 gla

[redacted]

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

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
FEB 17 1955

February 16, 1955

Memorandum

To: Ernest W. Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3545, Republic Uranium Company, Inc., Paramount Claims, Big Indian Mining district, San Juan County, Utah

I have reviewed the recommendations of the Field Team regarding the application of the Republic Uranium Company and have discussed them with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We agree with the conclusion of the Field Team that the applicant be required to do the additional prospecting work required to establish target areas for the exploration work, after which a revised application can be accepted from the company.

The report of the Field Team is being forwarded to the Chief, Division of Minerals, in accord with the routing slip attached thereto.

John E. Crawford

John E. Crawford

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford

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

Division of Minerals Administration
RECEIVED

February 16, 1955

Memorandum

To: Ernest W. Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3545, Republic Uranium Company, Inc., Paramount Claims, Big Indian Mining district, San Juan County, Utah

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John L. Crawford

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. L. Crawford

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

February 16, 1955

Memorandum

To: Ernest A. Ellis, GMA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMA Docket 3545, Republic Uranium Company, Inc., Paramount Claims, Big Indian Mining District, San Juan County, Utah

I have reviewed the recommendations of the Field Team regarding the application of the Republic Uranium Company and have discussed them with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We agree with the conclusion of the Field Team that the applicant be required to do the additional prospecting work required to establish target areas for the exploration work, after which a revised application can be accepted from the company.

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John C. Crawford

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. C. Crawford

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

Division of Minerals Admin.
RECEIVED
FEB 17 1955

February 16, 1955

Memorandum

To: Ernest W. Allis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3545, Republic Uranium Company, Inc., Paramount Claims, Big Indian Mining district, San Juan County, Utah

I have reviewed the recommendations of the Field Team regarding the application of the Republic Uranium Company and have discussed them with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We agree with the conclusion of the Field Team that the applicant be required to do the additional prospecting work required to establish target areas for the exploration work, after which a revised application can be accepted from the company.

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John L. Crawford

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. L. Crawford

IN REPLY REFER TO:

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

February 8, 1955

Re: DMEA-3545
Republic Uranium Co., Inc.
Paramount Claims
San Juan Co., Utah
Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of supplementary data from W. P. Williams

In view of the poor results of drilling on the adjoining property by A.E.C. and also the information on the 2 holes on applicant's claims, I concur with the Field Team and recommend the project be denied. You may want to suggest to the applicant that he might renew his request if some evidence of mineralization is found on the property.

"Intuitively", I feel that this property is well situated for prospecting.

Bob Trace
R. D. Trace

IN REPLY REFER TO:

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

February 8, 1955

Re: DMEA-3545
Republic Uranium Co., Inc.
Paramount Claims
San Juan Co., Utah
Uranium

Memorandum

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"Intuitively", I feel that this property is well situated for prospecting.

R. D. Trace

RDTrace:hlm
G-2/8/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

IN REPLY REFER TO:

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

February 8, 1955

Re: DMEA-3545
Republic Uranium Co., Inc.
Paramount Claims
San Juan Co., Utah
Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

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R. D. Trace

RDTrace:hlm
G-2/8/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

IN REPLY REFER TO:

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

February 8, 1955

Re: DMEA-3545
Republic Uranium Co., Inc.
Paramount Claims
San Juan Co., Utah
Uranium

Memorandum

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From: R. D. Trace, U. S. Geological Survey

Subject: Review of supplementary data from W. P. Williams

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R. D. Trace

RDTrace:hlm
G-2/8/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

2/10/55 glh

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

Department of the Interior
Defense Minerals Administration
RECEIVED
FEB - 3 1955

224 New Customhouse
Denver 2, Colorado

January 27, 1955

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3545 (Uranium), Republic Uranium Company, Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

Reference is made to your letter of November 3, 1954, signed by the Chairman, Operating Committee, DMEA, wherein the request is made for the Field Team's recommendations on the subject application.

In conjunction with your request this matter was referred to W. P. Williams of the U. S. Geological Survey by the Region III Field Team. Mr. Williams contacted members of the Atomic Energy Commission and the applicant's personnel in order to obtain additional knowledge concerning the possibility of uranium mineralization on the property.

Enclosed are four copies of the memorandum from W. P. Williams with transmittal memorandum from E. N. Harshman. We recommend that the applicant be required to do the additional prospecting work required to establish target areas for the exploration work after which their revised application can be accepted.

W. M. Traver
W. M. Traver

E. N. Harshman
E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
2-9-55
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 3 1955

January 26, 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3545 (uranium), Republic Uranium Co., Inc., Paramount claims, Big Indian Mining District, San Juan County, Colorado

Enclosed are 10 copies of a memorandum by W. P. Williams, U. S. Geological Survey, on the above subject property.

In a letter of November 3, 1954, transmitting the application to the Field Team, the chairman of the Operating Committee expresses some doubt as to the propriety of granting Government exploration assistance to the Republic Uranium Co., Inc., and asks the recommendations of the Field Team. In a memorandum of November 9, 1954, the Field Team requested Grand Junction to review the application and to furnish any supplemental geologic data on the ore potential of the property that they might have or that they might obtain from the AEC. The memorandum by Williams is in answer to the Field Team's letter of November 9, 1954.

From the data contained in the memorandum, it appears that exploration on the subject property, with Government assistance, is not warranted at this time for there is little or no geologic evidence of the presence of legitimate exploration targets.

It has been, and I believe should continue to be, the Region III policy to make a field examination on all applications that have been assigned a docket number and referred to the field for processing. I therefore hesitate to make a firm recommendation that the application should be denied, although such action by the Washington staff would be appropriate and have my concurrence.

I suggest that the memorandum be referred to the Chairman of the Operating Committee for appropriate action.

E. N. Harshman

E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
2-9-55
(date)

Enclosures (10)

DEPARTMENT OF THE INTERIOR
Domestic Minerals Administration
RECEIVED
FEB 3 1955

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. BOX 360
GRAND JUNCTION, COLORADO

January 14, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region IV

From: W. P. Williams

Subject: DMEA Docket 3545 (Uranium) Republic Uranium Co., Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

In accordance with the request of the DMEA Field Team, Region IV, I have reviewed the subject application, discussed the application with Mr. John Q. St. Clair, consulting geologist for the applicant, and have obtained all the additional information possible about the subject property.

There are no mineralized outcrops on the property. Two core-drill holes exist on the property. One hole, drilled by private interests, is located in the north central part of Big Indian Rock claim (labeled BIR, Plate 4 accompanying application). This hole penetrated the ore-bearing horizons of the lower Chinle and upper Cutler formations. The applicant states the hole was not mineralized. Core from the hole has been lost or destroyed. The other hole, drilled by the AEC, is located near the northeast corner of claim LL (Low Load). This hole also penetrated the ore horizons. Examination of the geologic log shows that the hole is not mineralized and is classed unfavorable. To my knowledge, there is no other drilling on the property.

Reviewed by
DMEA OPERATING COMMITTEE
2-9-55
(date)

In reply to my inquiry, Louis Garbrecht, Geologic Branch, Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office, stated that the AEC drilled 22 holes in section 35, adjoining the Republic property to the southwest, and that, "all were barren, except 2 weakly mineralized holes." The AEC offered no other information concerning the property.

In summary, there is no concrete evidence of uranium mineralization on the property. The property is located in a district where large uranium deposits are known. Two known drill holes, on a large sized property, did not show uranium mineralization. To date we have no evidence that uranium ore exists on the property in significant amounts.

W P Williams

W. P. Williams,
Geologist

WPW/mlr

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. BOX 360
GRAND JUNCTION, COLORADO

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Minerals Administration
RECEIVED
FEB 23 1955

January 14, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region IV

From: W. P. Williams

Subject: DMEA Docket 3545 (Uranium) Republic Uranium Co., Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

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W P Williams

W. P. Williams,
Geologist

WPW/mlr

2/4/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 3 1955

224 New Customhouse
Denver 2, Colorado

January 27, 1955

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3545 (Uranium), Republic Uranium Company, Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

Reference is made to your letter of November 3, 1954, signed by the Chairman, Operating Committee, DMEA, wherein the request is made for the Field Team's recommendations on the subject application.

In conjunction with your request this matter was referred to W. P. Williams of the U. S. Geological Survey by the Region III Field Team. Mr. Williams contacted members of the Atomic Energy Commission and the applicant's personnel in order to obtain additional knowledge concerning the possibility of uranium mineralization on the property.

Enclosed are four copies of the memorandum from W. P. Williams with transmittal memorandum from E. N. Harshman. We recommend that the applicant be required to do the additional prospecting work required to establish target areas for the exploration work after which their revised application can be accepted.

W. M. Traver
W. M. Traver

E. N. Harshman
E. N. Harshman

Enclosures
RDB:lc
Copy to: Harshman
Shaw
Williams
Sub
Chron

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 3 1955

Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

January 26, 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3545 (uranium), Republic Uranium Co., Inc., Paramount claims, Big Indian Mining District, San Juan County, Colorado

Enclosed are 10 copies of a memorandum by W. P. Williams, U. S. Geological Survey, on the above subject property.

In a letter of November 3, 1954, transmitting the application to the Field Team, the chairman of the Operating Committee expresses some doubt as to the propriety of granting Government exploration assistance to the Republic Uranium Co., Inc., and asks the recommendations of the Field Team. In a memorandum of November 9, 1954, the Field Team requested Grand Junction to review the application and to furnish any supplemental geologic data on the ore potential of the property that they might have or that they might obtain from the AEC. The memorandum by Williams is in answer to the Field Team's letter of November 9, 1954.

From the data contained in the memorandum, it appears that exploration on the subject property, with Government assistance, is not warranted at this time for there is little or no geologic evidence of the presence of legitimate exploration targets.

It has been, and I believe should continue to be, the Region III policy to make a field examination on all applications that have been assigned a docket number and referred to the field for processing. I therefore hesitate to make a firm recommendation that the application should be denied, although such action by the Washington staff would be appropriate and have my concurrence.

I suggest that the memorandum be referred to the Chairman of the Operating Committee for appropriate action.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. BOX 360
GRAND JUNCTION, COLORADO

DEPARTMENT OF THE INTERIOR
Colorado Minerals Administration
RECEIVED
FEB - 3 1955

January 14, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region IV

From: W. P. Williams

Subject: DMEA Docket 3545 (Uranium) Republic Uranium Co., Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

In accordance with the request of the DMEA Field Team, Region IV, I have reviewed the subject application, discussed the application with Mr. John Q. St. Clair, consulting geologist for the applicant, and have obtained all the additional information possible about the subject property.

There are no mineralized outcrops on the property. Two core-drill holes exist on the property. One hole, drilled by private interests, is located in the north central part of Big Indian Rock claim (labeled BIR, Plate 4 accompanying application). This hole penetrated the ore-bearing horizons of the lower Chinle and upper Cutler formations. The applicant states the hole was not mineralized. Core from the hole has been lost or destroyed. The other hole, drilled by the AEC, is located near the northeast corner of claim LL (Low Load). This hole also penetrated the ore horizons. Examination of the geologic log shows that the hole is not mineralized and is classed unfavorable. To my knowledge, there is no other drilling on the property.

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W P Williams

W. P. Williams,
Geologist

WPW/mlr

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 3 1955

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. BOX 360
GRAND JUNCTION, COLORADO

January 14, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region IV

From: W. P. Williams

Subject: DMEA Docket 3545 (Uranium) Republic Uranium Co., Inc., Paramount claims, Big Indian Mining District, San Juan County, Utah

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W P Williams

W. P. Williams,
Geologist

WPW/mlr

"/16/5-4 gla

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

RECEIVED NOV 15 1954

224 New Customhouse
Denver 2, Colorado

November 9, 1954

Memorandum

To: A. Brokaw

From: DMEA Field Team, Region 1V

Subject: DMEA Docket 3545 (Uranium)
Republic Uranium Company, Inc., Paramount claims
Big Indian Mining District, San Juan County, Utah

Enclosed is a complete copy of an application for DMEA assistance submitted by Republic Uranium Company, Inc. Also enclosed are copies of memoranda from R. D. Trace of the U. S. Geological Survey and John E. Crawford of the U. S. Bureau of Mines with transmittal letter from the Chairman, Operating Committee, DMEA.

Please review the application, obtain any other information as to the existance or non-existance of indicated uranium ore deposits on the subject property, and submit a memorandum of your findings to this office. Your recommendations will be forwarded to the Washington office so they may decide whether or not a formal field examination is warranted. Both the applicant and personnel from the Grand Junction office of the Atomic Energy Commission should be contacted for additional information concerning this application. Your memorandum should state that A.E.C. was contacted to obtain any information they might have concerning the property. Ten copies of your memorandum will be required.

John F. Shaw
John F. Shaw
For W. H. King

for A. H. Koschmann
A. H. Koschmann
DMEA Field Team, Region 1V

Enclosure
RDB:mn
cc: Docket 3545
Sec. to the Oper. Comm. (2)
W.M.Traver
A.H.Koschmann
Chron.

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

224 New Customhouse
Denver 2, Colorado

November 9, 1954

Memorandum

To: A. Brokaw

From: DMEA Field Team, Region 1V

Subject: DMEA Docket 3545 (Uranium)
Republic Uranium Company, Inc., Paramount claims
Big Indian Mining District, San Juan County, Utah

Enclosed is a complete copy of an application for DMEA assistance submitted by Republic Uranium Company, Inc. Also enclosed are copies of memoranda from R. D. Trace of the U. S. Geological Survey and John E. Crawford of the U. S. Bureau of Mines with transmittal letter from the Chairman, Operating Committee, DMEA.

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John F. Shaw
John F. Shaw
For W. H. King

for A. H. Koschmann
A. H. Koschmann
DMEA Field Team, Region 1V

Enclosure

RDB:mn

cc: Docket 3545
Sec. to the Oper. Comm. (2)
W.M.Traver
A.H.Koschmann
Chron.

700

Surname

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

Ellis
Hedges
Kilsgaard
Selfridge

NOV 3 - 1954

Republic Uranium Co., Inc.
515 Phillips Petroleum Bldg.
Salt Lake City, Utah

Re: Docket No. DMEA-3545 (Uranium)
Paramount Claims
San Juan County, Utah

Dear Sirs:

The application for assistance in exploring your property in San Juan County, Utah, under the above-captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred 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 in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf

Administrator

Copy to: Mr. Nathan Wechsler
1010 Vermont Ave., N. W.
Washington, D. C.

BWEllis:am
11-2-54
cc to: Admr. Reading File
Docket
Code 700
DMEA Field Team, Region IV (2)

R.G.S.

Surname 700

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

Ellis Selfridge

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

NOV 3 - 1954

Re: Docket No. DMEA-3545 (Uranium)
Republic Uranium Company, Inc.
Paramount Claims
San Juan County, Utah

Dear Mr. King:

The captioned application is referred to Region IV for a Field Team recommendation. A copy of the application and supporting data was forwarded to you on October 25.

Enclosed are copies of memoranda from R. D. Trace, dated October 26, and John E. Crawford, dated November 2, 1954, Geological Survey and Bureau of Mines Uranium Commodity Committee members, respectively.

You will note that the application states, in part, that "... several exploration holes drilled in the northern portion of the claim area... . No detailed data are available on the results of the drilling, ...". Thus it is apparent from the application that the request for aid is based solely on geologic theory. We have attempted, through Mr. Nathan Wechsler, Applicant's Washington representative, to obtain some concrete evidence of mineralization. We also contacted, by phone, John Q. St. Clair, Applicant's geologist at Grand Junction. These efforts produced negative results. Please investigate, if possible, the matter of the drill holes mentioned in the application in order to ascertain just what that work resulted in. It is questionable whether we would look favorably on a proposed project, such as this, unless better evidence of mineralization is submitted than that revealed by the Applicant.

Be sure to contact the Atomic Energy Commission group regarding this application.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (24B)

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines (24B)

Thor H. Kiilsgaard
Member, Geological Survey (24B)

EWEllis:am
11-2-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700

R.C.H.

11/2/54 gla

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

November 2, 1954

Memorandum

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

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

Subject: DMEA Docket No. 3545, Republic Uranium Co., Inc., 515 Phillips Petroleum Bldg., Salt Lake City, Utah.

I have reviewed the application included in the subject docket and discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We recommend that the application be denied unless additional evidence is forthcoming from the applicant indicating that favorable uranium mineralization is known to occur on the claim.

The attached request for assistance is based solely on the geographical and geological proximity of economic uranium deposits to the subject property. The granting of economic aid for exploration-development on general geologic inference alone does not appear warranted, as the staking of a claim adjacent to a known ore body does not necessarily indicate the presence of uranium on the claim. Such action is itself purely speculative in nature.

John E. Crawford

John E. Crawford

Attachment

10/27/54 gla

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1954

October 26, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3545 (Uranium)

To: E. W. Ellis, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
Applicant's name and address: Republic Uranium Co., Inc., 515 Phillips Petroleum Bldg., Salt Lake City, Utah
Name of property: Paramount group
Location of property: San Juan County, Utah
Summary of applicant's proposal:
Drill 63,500 feet in three stages, total cost $315,700.00
Sources of information on applicant's property:
U.S.G.S. TEM-451, Photogeologic map of Mt. Peale 10 quadrangle.
Comments:

The area warrants examination by the Field Team, if for no other reason than its proximity and geologic similarity to the well known Steen and J. Jones deposits. We have no information here on the applicant's property, other than the photogeologic map of the general area, which the applicant has in part used for his Plate 4. The Survey and Commission offices in Grand Junction, however, will probably have much information about the area.

The applicant states that "several exploration holes (were) drilled in the northern portion. . . . No detailed data are available on the results of the drilling." Perhaps the Commission logged these holes?

As the applicant states, "a program of exploration can be set up only tentatively and must be kept flexible." If a project is approved, the Operator and Field Team will probably want to submit a revised program.

The cost figures appear high, i.e. a superintendent, a geologist, and consultants. Is the 3/4 ton truck necessary? No provision is made for logging the radioactivity of the drill holes, or does the operator plan to use Commission facilities? I note that BX holes are suggested.

RECOMMENDATION: Refer to Field Team.

RD Trace

R. D. Trace

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

IN REPLY REFER TO:

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration
RECEIVED
OCT 27 1954

extra copy

October 26, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3545 (Uranium)

To: E. W. Ellis, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
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Location of property: San Juan County, Utah
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RECOMMENDATION: Refer to Field Team.

R. D. Trace

RDTrace:hlm
G-10/26/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641

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

October 25, 1954
Subject: DMEA-3545
Re: Exploration Assistance
Republic Uranium Co., Inc.

Mr. Nathan Wechsler
1010 Vermont Ave., N. W.
Washington, D. C.

Dear Sir:

The receipt of your application dated October 12, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3545 and referred to the Rare and Miscellaneous Metals 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

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

October 25, 1954
Subject: DMEA-3545
Re: Exploration Assistance
Paramount Claims

Republic Uranium Co., Inc.
515 Phillips Petroleum Bldg.
Salt Lake City, Utah

Gentlemen:

The receipt of your application dated October 12, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

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Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
OCT 22 1954

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

Not to be filled in by applicant

Docket No. 3545
Metal or Mineral Uranium
Date Received
Estimated Cost $315,700
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:

Republic Uranium Co., Inc.
515 Phillips Petroleum Bldg.
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. See report

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

(*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 report

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

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

(*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 See report

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

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 Uranium Vanadium Ore

(*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 contact veins, ore-bearing beds, etc.

(*c*) The work will start within 15 days and be completed within 6 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)? Yes

(*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 October 12, 1954

Republic Uranium Co., Inc.
(Applicant)

By Marlon Wiebelhaus Atty

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

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That Republic Uranium Company of Salt Lake City, a Utah Mining Corporation, does hereby make, constitute and appoint, NATHAN WECHSLER, his agents and attorneys our true and lawful attorney to appear for us and represent us before the United States Department of Interior, Defense Minerals Exploration Administration, in connection with any matters involving application for aid in an exploration project in which we are a party, giving our said attorney full power to do everything whatsoever requisite and necessary to be done in these matters, and to execute all agreements in these matters, as fully as the undersigned might do if done in their own capacity, with full power of substitution and revocation, at any time subsequent to the date hereof and prior to the revocation hereof.

It is requested that a copy of all communications, addressed to the undersigned, regarding any matter in which the said attorney is hereby authorized to act, be addressed to:

Mr. Nathan Wechsler
1010 Vermont Avenue, N. W.
Washington, D. C.

All powers of attorney for this purpose heretofore filed or executed by us are hereby revoked.

IN WITNESS WHEREOF, we have hereunto set our hand and seal this 5th day of October, 1954.

Richard W. Clayton

STATE OF UTAH)
COUNTY OF Salt Lake) SS.

On the 5th day of October, A.D., 1954, personally appeared before me Richard W. Clayton, who, being by me duly sworn, did say that he is the President of Republic Uranium, and that said instrument was signed in behalf of said Corporation by authority of its by-laws, and said Richard W. Clayton acknowledged to me that said Corporation executed the same.

Witness my hand and notarial seal this 5th day of October.

Marie H. Hodgson
Notary Public

My Commission expires:

My Commission Expires Jan. 12, 1958

REPORT ACCOMPANYING APPLICATION TO DMEA

BY

REPUBLIC URANIUM COMPANY

Prepared by:
John Q. St.Clair
Mining Geologist
Grand Junction, Colorado

CONTENTS

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ILLUSTRATIONS

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APPENDIX 17

1. Supplemental Report - Geoprofessional Services, Inc.
2. Mining Agreement

Republic Uranium Co., Inc.
515 Phillips Pet. Bldg.
Salt Lake City, Utah

REPORT ACCOMPANYING APPLICATION TO DMEA

I. NAME OF APPLICANT

(a) The applicant is the Republic Uranium Company, 515 Phillips Petroleum Building, Salt Lake City, Utah.

(b) The Republic Uranium Company is a corporation organized in and doing business under the laws of the State of Utah.

(c) The following are the titles, names and addresses of officers:

(1) President:

Richard William Clayton
2534 Hartford Street
Salt Lake City, Utah

(2) Executive Vice President:

Gordon F. Jensen
No. 11 "A" Street
Salt Lake City, Utah

(3) Second Vice President:

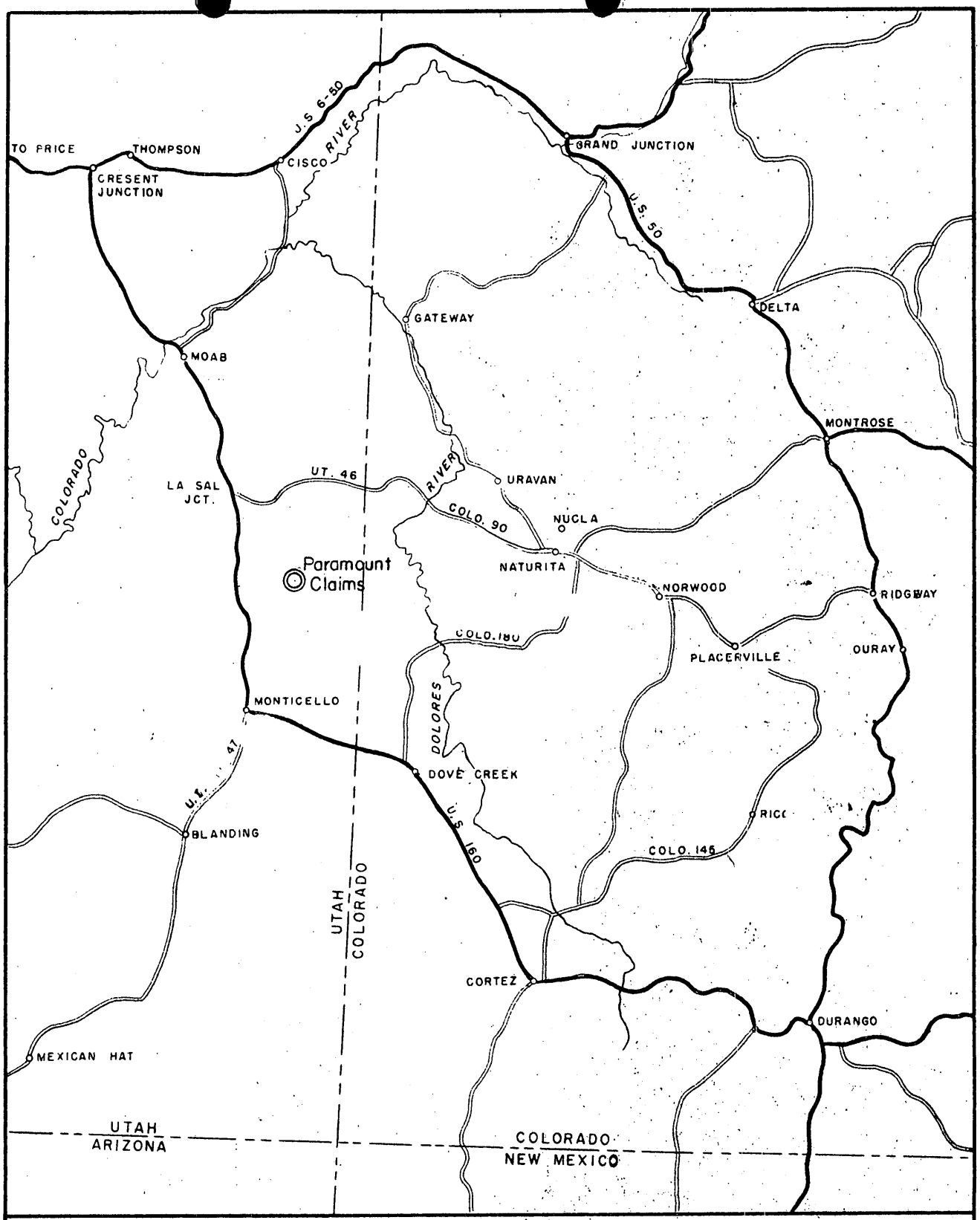
Don V. Cook
7675 South 1300 East
Midvale, Utah

(4) Secretary:

Ray S. Robinson
1548 Blain Avenue
Salt Lake City, Utah

(5) Treasurer:

Joseph R. Smith
116 No. West Temple Street
Salt Lake City, Utah



EXPLANATION

PAVED ROAD

IMPROVED ROADS

MAIN RIVERS

CITIES & LEADING TOWNS

10 0 20 40

MILES

LOCATION MAP

TO ACCOMPANY REPORT TO DMEA
BY THE
REPUBLIC URANIUM COMPANY

JOHN Q. ST. CLAIR *MINING GEOLOGIST*

GRAND JUNCTION, *COLORADO*

PLATE 2

Republic Uranium Co., Inc.
515 Phillips Pet. Bldg.
Salt Lake City, Utah

II. PROPERTY RIGHTS

The mining claims held by the applicant are located in Sections 24 and 25, Township 30 South, Range 24 East and in Section 30, Township 30 South, Range 25 East of the Salt Lake Meridian. The area is known as the Big Indian Mining District, San Juan County, Utah.

The names of the claims and the recording data are as follows:

Name of Claim	Page	Book
Black Brush #1	23	83
Black Brush #2	23	83
Black Brush #3	23	84
Black Brush #4	23	84
Black Brush #5	23	85
Black Brush #6	23	85
Black Brush #7	23	86
Big Indian Rock	23	22
Brigham Tea #1	23	32
Brigham Tea #1-fraction	49	97
Brigham Tea #2	23	32
Brigham Tea #3	23	33
Brigham Tea #4	23	33
Brigham Tea #5	23	34
Brigham Tea #6	47	491
Greasewood	25	7
Greasewood #1-fraction	97	473
Greasewood #2	25	5
Greasewood #2-fraction	49	102
Greasewood #3	25	5
Greasewood #4	25	6
Greasewood #5	25	6
Greasewood #5-fraction	49	103
Independence	29	200
Independence #1-fraction	49	104

Republic Uranium Co., Inc.
315 Phillips Pet. Bldg.
Salt Lake City, Utah

Name of Claim	Page	Book
Low Lead	23	23
Low Lead #1	25	7
Low Lead-fraction	49	104
Low Lead #1-fraction	49	105
Paramount #7	19	143
Paramount #8	19	144
Paramount #9	19	144
Paramount #10	19	145
Paramount #11	17	301
Paramount #12	17	302
Paramount #13	17	302
Paramount #14	17	302
Red Book (NW 1/2 only)	23	56
Red Book (NW 1/3 only)	23	57

The positions of the claims are shown on Plate 4 of this application. Further details regarding the applicant's interest in the above lands and any liens and encumbrances thereon may be obtained by reference to the photostatic copy of the agreement between the applicant and H. Evans Roberts, dated July 9, 1954, together with Exhibit "A" which forms part thereof.

The property is known as the Paramount Claims.

III. PHYSICAL DESCRIPTION

A. History

At the time of submitting this application, no exploration or development work is being carried out on the above described property. It is understood, however, that certain assessment work, which included several exploration holes drilled in the northern portion

Republic Uranium Co., Inc.
215 Phillips Pet. Bldg.
Salt Lake City, Utah

of the claim area and the construction of an access road to the top of the area underlain by the Wingate formation, was accomplished prior to the applicant's interest in the property. No detailed data are available on the results of the drilling, but it is reported that the holes encountered substantial thicknesses of the ore-bearing horizon, the Chinle formation, and an abundance of carbonaceous material. The precise locations of these holes are not available.

No other mining or exploration work has been carried out, so far as the records show.

B. Geologic Setting

Reference to the accompanying map (Plate 4) shows that the stratigraphic section of the claim area includes sedimentary rocks of Permian, Triassic, Jurassic and Quaternary ages.

The Cutler formation of Permian age, represented in the upper part by mudstones, siltstones, and coarse-grained arkosic sandstones, is the oldest formation in the area.

The Chinle formation of Triassic age, the ore bearing unit, overlies unconformably the Cutler formation, and is composed principally of varigated mudstones and siltstones, conglomerates and fine-to medium-grained cross-bedded sandstones. Mudstones are prominent in the upper part of the formation, and may be associated with cross-bedded sandstones and thin beds of conglomerate. The upper part of this formation carries abundant silicified fossil wood. According

to measured sections determined by the Atomic Energy Commission to the southeast of the claim area, the thickness of the Chinle formation will vary between 350 and 400 feet.

The Wingate formations of Jurassic age, with an average thickness of approximately 350 feet, overlies the Chinle, and is composed principally of massive aeolian sandstone which weathers to vertical cliffs in the northern and eastern portion of the property.

The Kayenta formation, the youngest member of consolidated sedimentary formations, overlies the Wingate and has an approximate thickness of 250 feet.

Along the northern and southern borders of the claim area, the older rocks are covered by unconsolidated deposits of Quaternary age.

The stratigraphic sequence is shown in Plate 3.

These same above described formations, which form continuous outcrops to the northwest and southeast along the west side of Big Indian Wash, occur on the southwest limb of the Lisbon Valley anticline, a major regional structural feature.

C. Structure

The formations within the limits of the property dip generally to the west and southwest at approximately 6 degrees; however in the southern portion of the Section 25, Township 30 South, Range 24 East, the dip flattens to 1 to 3 degrees in the same directions. Due to folding

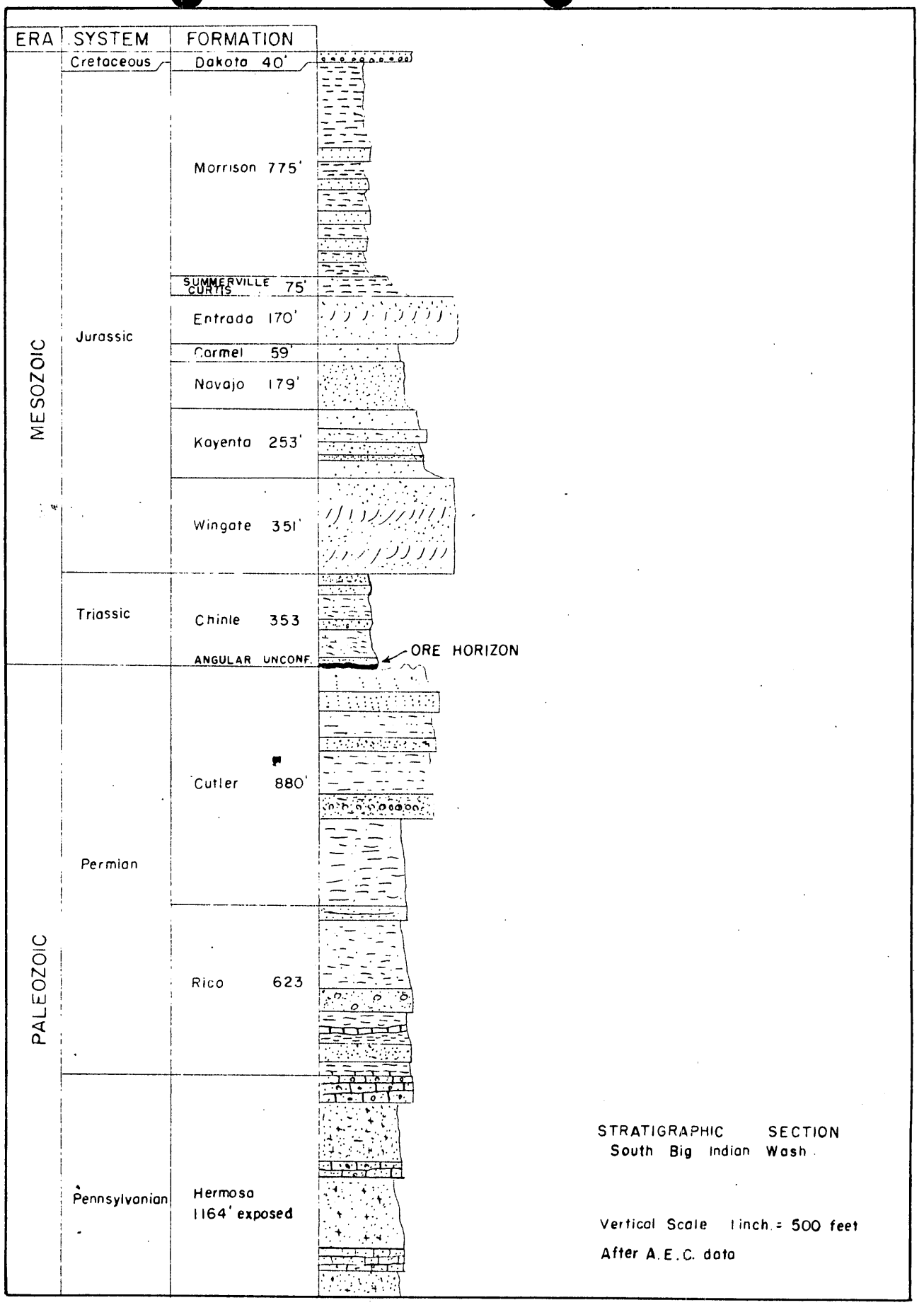

ERA
SYSTEM
FORMATION
MESOZOIC
Cretaceous
Dakota 40'
Jurassic
Morrison 775'
SUMMERVILLE
CURTIS 75'
Entrada 170'
Carmel 59'
Navajo 179'
Kayenta 253'
Wingate 351'
Triassic
Chinle 353
ANGULAR UNCONF.
ORE HORIZON
PALEOZOIC
Permian
Cutler 880'
Rico 623
Pennsylvanian
Hermosa
1164' exposed
STRATIGRAPHIC SECTION
South Big Indian Wash
Vertical Scale 1 inch = 500 feet
After A.E.C. data

PLATE 3

and subsequent erosion, the outcropping beds form escarpments facing to the east and north.

Although not indicated on the Photogeologic Map (Mt. Peale-10), surface reconnaisance indicates that a minor east-west normal fault, downthrown to the south, may be present along the northern boundary of Section 25.

D. Mineralization

Although no ore disclosures have been reported on the property, the presence of the Chinle formation in substantial thickness offers favorable ground for exploration. To the north where mining operations are being currently conducted, the ore horizon occurs at or near the base of this formation in a continuous sandstone and conglomerate horizon.

The Cutler has yielded uranium ore in the past, principally from lenses of coarse-grained arkose in the upper 100 feet of this formation.

Details of these ore occurrences have been adequately covered in government publications, and it is not necessary, therefore, to further describe them in this application.

E. Accessibility

The Paramount Claims may be reached by U. S. Highway 160, southeast from Moab, Utah, for a distance of 34.5 miles, then by a county gravel road eastward for 5.1 miles, and finally by an unimproved

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Salt Lake City, Utah

road for 3.1 miles.

Entry to the property is also afforded by following U.S. Highway 160 for 22 miles southeast of Moab, 7.7 miles east by Utah State Highway 46, and 12.1 miles south by winding dirt road. Unimproved roads to the area are generally passable throughout the year, except after heavy rains and during spring thaws.

Although Moab and Monticello, Utah, are within convenient driving distances of the property, residence quarters are difficult to obtain. Trailer camps, such as those maintained by government agencies and others in the area, provide better accommodation for employees.

F. Topography and Climate

The topographic features of the district have been controlled to a large extent by the anticlinal and synclinal folding of the formations; and where these structural features are eroded by stream action, steep wall canyons and mesas, locally capped by massive sandstones, have been formed.

The climate is arid and temperatures above 100° F. in the summer and below freezing in the winter may be expected. Snows to depths of two feet may occasionally fall in the area, but usually average 6 inches.

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[illegible]5 Phillips Pet. Bldg.
Salt Lake City, Utah

IV. THE EXPLORATION PROJECT

A. Objective

The sole objective of the exploration program is the discovery of uranium-vanadium ore.

B. Proposed Work

The program of proposed work submitted for your consideration and examination is, at best, only tentative, since it is fully realized that at this stage neither the full scope of the project, if approved, nor the direction it will take, can be determined with any certainty. With these limitations in mind, it is possible to formulate a general plan of exploration which may serve as a basis for later discussions between ourselves and your agency.

So far as may be anticipated at this time, the exploratory work may be divided conveniently into three stages; the work in each new stage dependent upon the results obtained in the stage just completed. No rigid rules can be laid down, as any program to be successful must be reasonably flexible to permit alterations in plans as new data become available.

It is obvious that the major costs for any program in the Paramount Claim area will be represented by the cost of drilling. The amount of drilling required to thoroughly prospect the ground will be the basic factor governing the length of the project, and this factor, in turn,

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Salt Lake City, Utah

will largely control the overall costs. It is important, therefore, that some tentative drilling footages and depths should be determined in order that a basis may be established for submitting this application to your agency.

Phase 1 - Reference to Plate 1 (front cover) will show the approximate number of holes, spaced on 1000-foot centers, which could be drilled within acreage available for exploration. It will be noted that the Paramount claim group has been divided into three separate areas (designated 1, 2 and 3) on the basis of expected average depth of holes. Holes drilled on this coordinate spacing would be for the primary purpose of obtaining a better understanding of the subsurface geologic conditions, especially those related to thicknesses, characteristics and mineralization of the Chinle formation. Data obtained in this Phase 1 drilling will help to establish within close limits the depths where coring of the Chinle formation should be commenced in subsequent holes.

The number of holes and the drilling footages for each separate area (Plate 1) may be estimated as follows:

Area	Number of Holes	Average Depth	Total Footage
1	7	300	2100
2	13	700	9100
3	4	600	2400
Totals	24		13600 feet

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[illegible]5 Phillips Pet. Bldg.
Salt Lake City, Utah

It may be noted that the coordinate lines of the grid have been oriented in respect to the structure; for example, the northeast-southwest lines have been positioned normal to the approximate strike of the formations.

If the Chinle formation underlying the Paramount Claim area compares with that found in the producing areas to the north, it may be expected that from 50 to 60 feet of coring will be necessary in each hole; this interval is found in the lower part of the Chinle and upper 5 feet of the Cutler.

Using this average for Phase 1 it is estimated that the twenty-four holes will require about 1500 feet of coring and 12,100 feet of plugging with rotary bits.

It is suggested that core diameters should not be less than BK in size. The diameter of the hole from the surface to the top of the cored section will depend upon the equipment employed by the drilling contractor.

The field office of the Atomic Energy Commission, located in the Big Indian Wash Area, has offered facilities for core analysis and study during the course of the work.

It is proposed to carry out standard radiometric drill-hole logging during this and subsequent phases of the work.

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Salt Lake City, Utah

Phase 2 - The overlay on Plate 1 (front cover) indicates the approximate number of holes required to explore the property on a 500-foot spacing.

Assuming for estimation purposes that such a program were carried out, the footage and holes to be drilled may be calculated as follows:

Area	Number of Holes	Average Depth	Total Footage
1	19	300	5700
2	36	700	25200
3	11	600	6600
Totals	66		37500 feet

On the basis of 60 feet of coring per hole, the total cored footage would amount to 3960 feet, leaving a balance of 33,540 feet of plug-hole drilling.

Summary of Phases 1 and 2

A recapitulation of the drilling footages in Phases 1 and 2 is as follows:

Phase	Number of Holes	Feet of Coring	Feet of Non-Coring	Total Footage
1	24	1500	12100	13600
2	66	3960	33540	37500
Totals	90	5460	45640	51100

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Salt Lake City, Utah

The 51,100 feet shown above for Stages 1 and 2 would represent the optimum possible footage.

If no favorable indications of ore, or actual ore, are discovered in this amount of drilling, Phase 3 would be automatically discontinued. However, if reasons existed for closer spacing or, say, a 250 grid located around holes showing mineralization or ore, Phase 3 of the program would become effective.

Phase 3 - The maximum amount of drilling which may be required in this phase is less easily calculated than for the previous two phases. The objective of this phase is to outline any favorable ground with more closely spaced holes, in some cases this interval may be as small as 50 feet.

If we assume for calculation purposes that 25 per cent more drilling is required to establish a deposit found in Phase 1 and 2 drilling, an additional 12,500 feet would be required.

Summary of Phases 1, 2 and 3

According to our estimates, a total of approximately 63,500 feet of drilling will be required for this project.

V. ESTIMATE OF COSTS

Costs for the project have been projected on a six-months period for purposes of estimation, and we have used the total drilling footage of 63,500 as a basis for calculations. These following costs,

Republic Uranium Co., Inc.
[illegible]5 Phillips Pet. Bldg.
Salt Lake City, Utah

therefore, are based on a maximum figure, and for this reason the cost of the entire project will be considered as a whole.

Phases 1, 2 and 3

(1) Independent Contracts

(a) 63,500 feet drilling @ $4.00 per foot (includes stand by time, casings, left in hole, etc.)	$ 254,000
(b) Clearing drill sites, bulldozing, etc.	5,000
(c) Assaying (400 samples @ $5.00 each)	2,000
Sub-total	$ 261,000

(2) Labor, Supervision and Consultants

(a) Common labor 2 men @ $300 per month ($600 x 6 months)	$ 3,600
(b) Geologist ($600 per month x 6)	3,600
(c) Office 1 Recording Clerk ($300 per month x 6)	1,800
(d) Superintendent ($800 per month x 6)	4,800
(e) Consultants Mining Engineering & Geology	3,000
Sub-total	$ 16,800

(3) Operating Equipment

(a) Truck (4 wheel drive, 3/4 ton)	$ 4,000

Republic Uranium Co., Inc.
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Salt Lake City, Utah

(b) Jeep Station Wagon	$ 3,000
	$ 7,000
(4) Buildings	
1 Butler Building with core storage facilities, equipment, etc.	$ 2,000
(5) Operating Materials & Supplies	$ 3,000
(6) Miscellaneous	$ 5,000

Summary of Estimated Costs

(1) Independent Contracts	$ 254,000
(2) Labor, Supervision & Consultants	16,000
(3) Operating Equipment	7,000
(4) Buildings	2,000
(5) Operating Material & Supplies	3,000
(6) Miscellaneous	5,000
	$ 287,000
(7) Add 10% Contingencies	28,700
Total Estimated Cost	$ 315,700

VI. OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The applicant, as a company, has had no previous operating background in exploration drilling.

The backgrounds of the Directors of the company are as follows:

Richard William Clayton-President, Director and organizer, resides at 2534 Hartford Street, Salt Lake City, Utah. He is an insurance executive and manager of the Group Life Department, New York Life Insurance Company. He is a member of the Board of Trustees of the John A. Widtsoe Foundation.

Gordon F. Jensen-Executive Vice President, Director, organizer, resides at No. 11[illegible] A[illegible] Street, Salt Lake City, Utah. He is a university graduate in physics and is currently associated with Jensen Construction Company.

Don V. Cook-Second Vice President, Director, organizer, resides at 7675 South 1300 East, Midvale, Utah. He is affiliated with the Cook-Osborne Concrete Company.

Ray S. Robinson-Secretary, Director, resides at 1548 Blaine Avenue, Salt Lake City, Utah. He is assistant manager of The Rio Grande Lumber Company, and is currently First Vice President of the Salt Lake City Junior Chamber of Commerce.

Joseph R. Smith-Treasurer, Director, organizer, resides at 116 No. West Temple Street, Salt Lake City, Utah. He is Zone Manager for Investor's Diversified Services, Inc.

The applicants have appointed Mr. John Q. St. Clair, Mining Geologist, Grand Junction, Colorado to act as their adviser and consultant for work under this program. His background and operating experience is as follows:

Republic Uranium Co., Inc.
[illegible] Phillips Pet. Bldg.
Salt Lake City, Utah

OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

Education:	University of Minnesota University of Oklahoma - B.S. Geology, 1934 (Phi Beta Kappa)
1924 - 1934:	Experience as diamond-drill runner, setter and superintendent of drilling operations.
1934 - 1935:	Superintendent of Diamond Drilling, Saza Gold Mines, Lupa Gold Field, Tanganyika, East Africa.
1936 - 1939:	Consultant on Exploration and Diamond Drilling for New Consolidated Goldfields, Nigel Gold Mining Co., South Roodepoort Main Reef Areas, and other companies on the Rand, South Africa.
1939 - 1945:	(Except one and one-half years in armed forces); Director of Research, New Consolidated Goldfields - Boart Products Research Laboratory, an organization devoted to the development and utilization of diamond tools and products; also, Superintendent of Diamond Drilling Operations, New Consolidated Goldfields, Johannesburg.
1945 - 1948:	Manager, Boart Products, South Africa, Limited, Johannesburg.
1948 - 1951:	Independent Diamond Dealer.
1951 - 1954:	Consulting Mining Geologist.

APPENDIX

A. J. EARDLEY
PRESIDENT 8-9448
F. W. CHRISTIANSEN
VICE-PRESIDENT 7-4980
N. C. WILLIAMS
VICE-PRESIDENT 87-1812
A. W. ROGERS
SEC.-TREAS. 84-1748
C. L. ASHTON
DIRECTOR 9-1115

GEOPROFESSIONAL SERVICES, INC.

1311 WALKER BANK BUILDING — SALT LAKE CITY 1, UTAH

July 14, 1954

Republic Uranium Company
Salt Lake City,
Utah

Gentlemen:

Attached is our geologic report, together with the maps and diagrams on your group of claims known as the West Paramount Group.

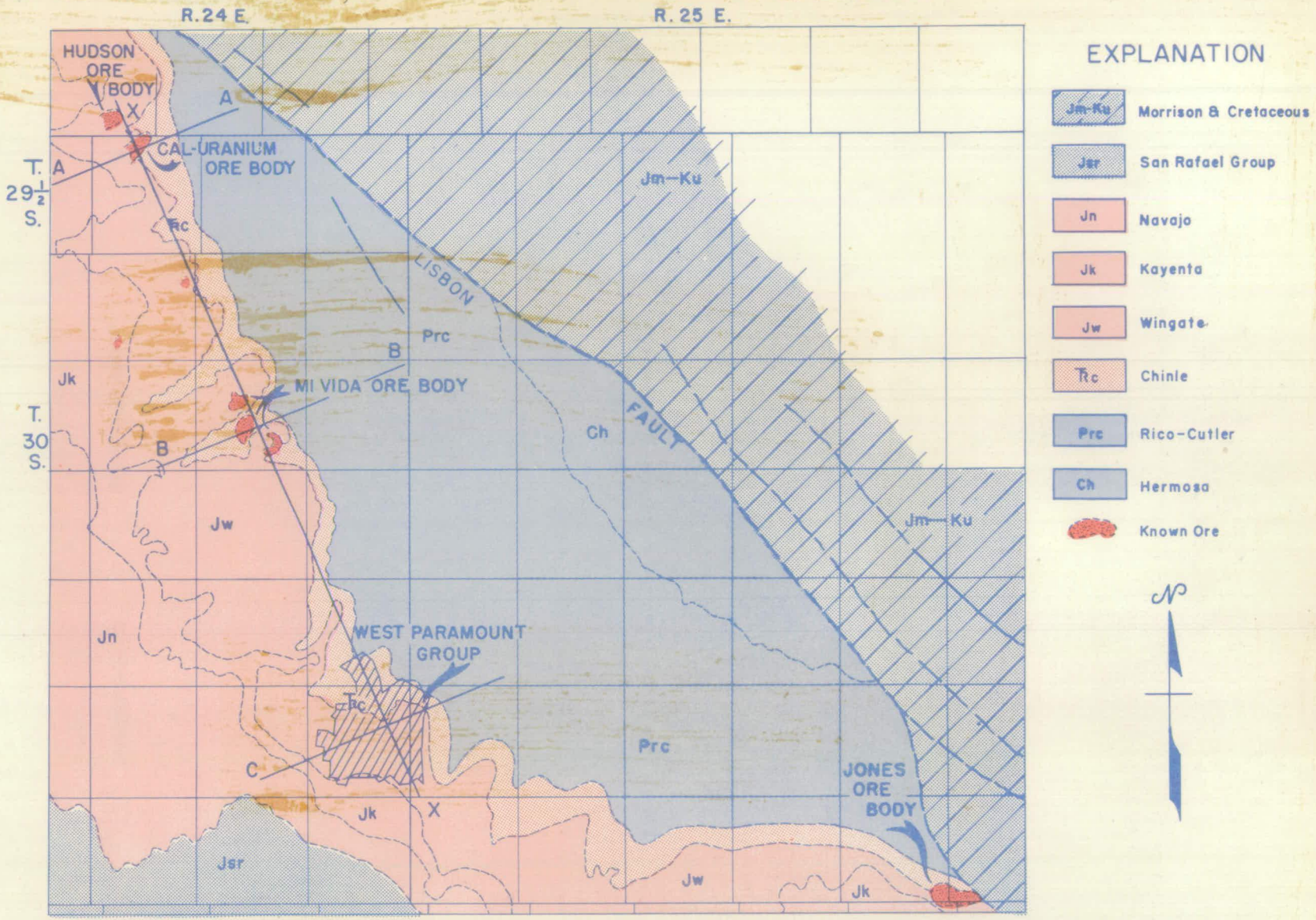
It is our sincere opinion, based on present geologic knowledge, that these properties are situated in one of the very most valuable areas in Utah. We are of the opinion that these properties possess as high a speculative value as any untested properties currently being explored or offered for sale or lease. It is a pleasure to recommend an exploration project on properties of this potential.

If we can be of further service to you when you commence your exploration program, please feel free to call upon us.

Sincerely yours,

Norman C. Williams

NCW:ns



GEOLOGIC MAP OF THE BIG INDIAN MINING DISTRICT, SHOWING LOCATION OF THE WEST PARAMOUNT GROUP

SCALE

0 — 5 Miles

GEOPROFESSIONAL SERVICES INC.

THE STOCK

The authorized capitalization of the Company is $175,000 divided into 17,500,000 shares of a par value of one cent per share. All stock is of one class, viz., common, voting, and non-assessable.

FINANCIAL STATEMENT

The following table constitutes the financial condition of REPUBLIC URANIUM COMPANY as of July 14, 1954. No representation is thereby made that financial changes have not occurred or will not occur subsequent to that date.

REPUBLIC URANIUM COMPANY
BALANCE SHEET
July 14, 1954

Current Assets:		
Cash in Bank		$109,375.00
Other Assets:		
Mineral Lease	$ 15,000.00	
Option to Acquire Mineral Leases	5,000.00	20,000.00
Organization Expenses:		
Broker's Commission	$ 15,625.00	
Incorporation Expenses (approximate)	4,000.00	19,625.00
Total Assets		$149,000.00
Current Liabilities:		
Due for Incorporation Expense		$ 4,000.00
Capital Stocks		
Capital Stock authorized (17,500,000 shares common, voting, non-assessable, par value 1c)	$175,000.00	
Less Capital Stock Unissued (3,000,000 shares—see Note 1	30,000.00	
Issued and Outstanding 14,500,000 *shares*		145,000.00
Total Liabilities and Net Worth		$149,000.00

NOTE 1—Options to purchase 1,875,000 shares at par value have been granted officers, directors and attorney for services rendered or to be rendered to the company.

THE OFFERING OF THESE SECURITIES IS MADE ONLY BY THIS OFFERING CIRCULAR. NO DEALER, SALESMAN OR ANY OTHER PERSON HAS BEEN ANTHORIZED TO GIVE ANY INFORMATION OR TO MAKE ANY REPRESENTATION ON BEHALF OF THE COMPANY OTHER THAN THOSE CONTAINED IN THIS OFFERING CIRCULAR, AND, IF GIVEN OR MADE SUCH INFORMATION OR REPRESENTATION MUST NOT BE RELIED UPON AS HAVING BEEN AUTHORIZED BY THE COMPANY OR ITS OFFICERS AND DIRECTORS.

A. J. EARDLEY
PRESIDENT 6-9446
F. W. CHRISTIANSEN
VICE-PRESIDENT 7-4980
N. C. WILLIAMS
VICE-PRESIDENT 87-1812
A. W. ROGERS
SEC.-TREAS. 84-1748
C. L. ASHTON
DIRECTOR 9-1115

GEOPROFESSIONAL SERVICES, INC.
1311 WALKER BANK BUILDING — SALT LAKE CITY 1, UTAH

GEOLOGIC REPORT ON THE WEST PARAMOUNT GROUP

INTRODUCTION

The West Paramount Group consists of 39 claims and fractions, located in the Big Indian district, San Juan County, Utah and comprises an area in excess of 500 acres. (See map). The thirty-nine claims are designated as follows:

Black Bush--1, 2, 3, 4, 5, 6, 7

Big Indian Rock

Brigham tea--1, 1F (Fraction), 2, 3, 4, 5, 7F

Greaswood--1, 1F, 2, 2F, 3, 4, 5, 5F

Independence--1, 1F

Low load--Low load, 1, 1F, F

Paramount--7, 8, 9, 10, 11, 12, 13, 14

Red Book--Red book and Red book No. 1

These properties lie on the central part of the southwest limb of the Big Indian anticline and are situated in the mineralized belt which includes several very large and high grade ore bodies. The Mi Vida mine, discovered by Charles A. Steen in 1952, and the more recently discovered ore bodies known as the Hudson, Cal-Uranium and Jones ore bodies are within this trend. The above lishted claims are

located about 2 miles southeast of the Mi Vida ore body and approximately 4½ miles northwest of the Jones ore body.

GEOLOGIC SETTING

The general geologic relationship of the area under consideration are depicted on the accompanying map. Four consolidated sedimentary rock formations crop out in the area. The oldest and lowermost consists of a sequence of Permian strata, mostly red beds. Overlying the Permian unit is a sequence of beds referred to as the Chinle formation which is composed largely of red beds. The base of the Chinle which contains the ore bearing horizon which is considered to be equivalent to the Shinarump formation. The Chinle formation is succeeded in turn by the Wingate and Kayenta formations.

Uranium ore, in the Big Indian district, is restricted to the basal Chinle or Shinarump formation. The uranium occurs within ancient channels which were in turn formed at the time of depostion of the formation. The ore-bearing Shinarump or equivalent formation is at depth along large areas of the west flank of the Big Indian anticline, including the area of the West Paramount Group. The location of the individual ore bearing channels cannot yet be predicted. Nevertheless, it has been demonstrated to the satisfaction of most geologists that uranium deposits tend to occur in groups, clusters, or "trends". Accordingly, close proximity to known ore deposits is one of the greatest attributes an untested property can possess.

In the area under consideration, the rock exposed at the surface is largely the Chinle and Wingate formations. The depth to the ore

horizon therefore will range from less than 200 feet to slightly more than 700 feet, the average depth being about 500 feet.

RECOMMENDATIONS

The West Paramount group is situated in an area that contains structural and stratigraphic features that are essentially identical to those present in the large, known ore bodies in the district.

The West Paramount group lies within a belt or "trend" of demonstrated large ore bodies and is in close proximity to the fabulous Mi Vida (Steen) ore body.

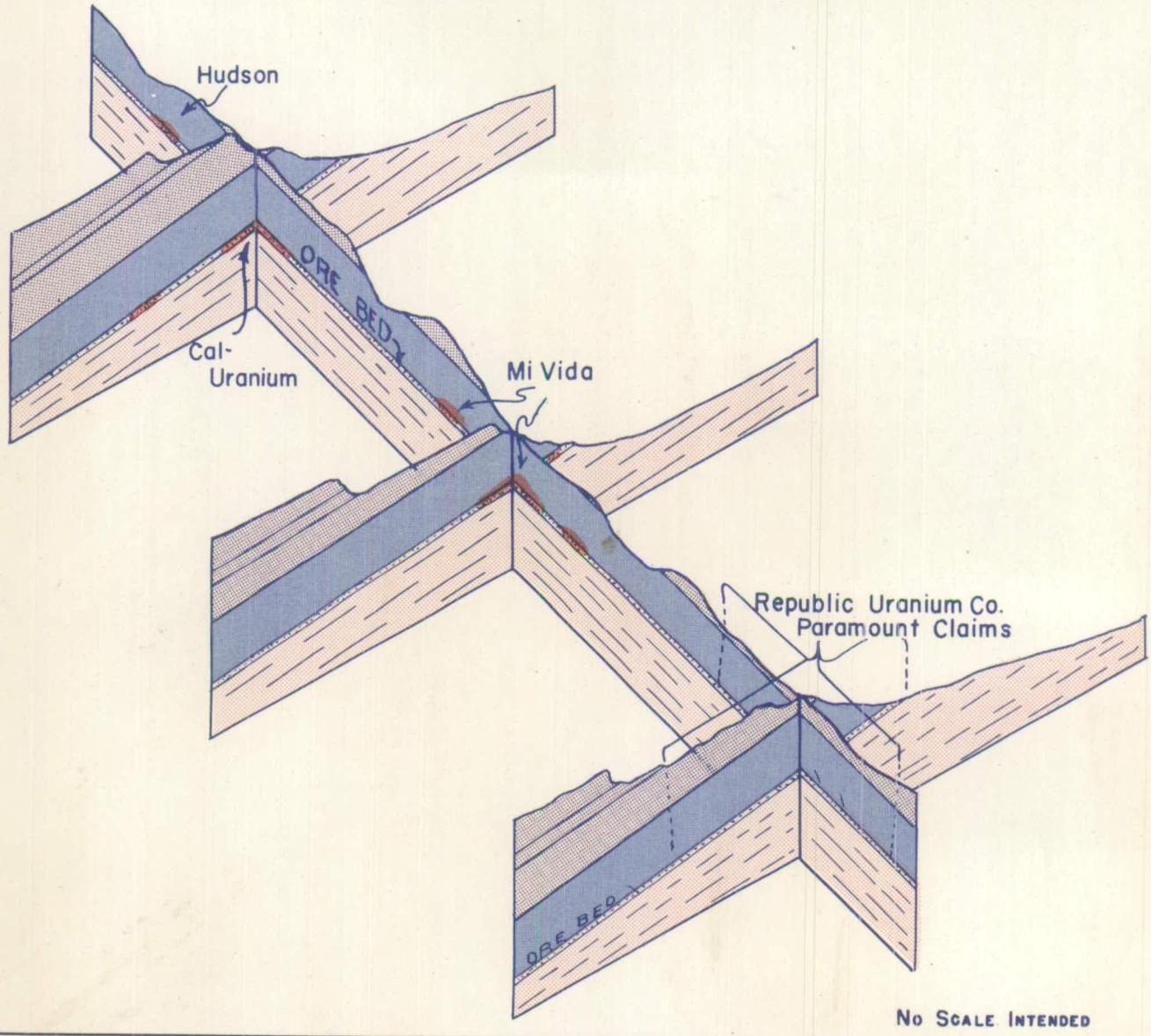
The ore bearing formation underlies the West Paramount group at a depth that is relatively shallow. The area could be easily explored by conventional drilling methods.

It is the opinion of the writers' that the West Paramount group has an extremely high speculative value and merits a very complete exploration program.

Submitted by,
GEOPROFESSIONAL SERVICES, Inc.

(s/ F. W. Christiansen)
F. W. Christiansen

Norman C. Williams



SCHEMATIC DRAWING SHOWING RELATIONSHIP OF THE CLAIMS OF REPUBLIC URANIUM CO. TO KNOWN ORE DEPOSITS.

GEOPROFESSIONAL SERVICES INC.

A. J. EARDLEY
PRESIDENT 8-9448
F. W. CHRISTIANSEN
VICE-PRESIDENT 7-4980
N. C. WILLIAMS
VICE-PRESIDENT 87-1812
A. W. ROGERS
SEC.-TREAS. 84-1748
C. L. ASHTON
DIRECTOR 9-1115

GEOPROFESSIONAL SERVICES, INC.

1311 WALKER BANK BUILDING — SALT LAKE CITY 1, UTAH

July 14, 1954

Republic Uranium Company
Salt Lake City,
Utah

Gentlemen:

Attached is our geologic report, together with the maps and diagrams on your group of claims known as the West Paramount Group.

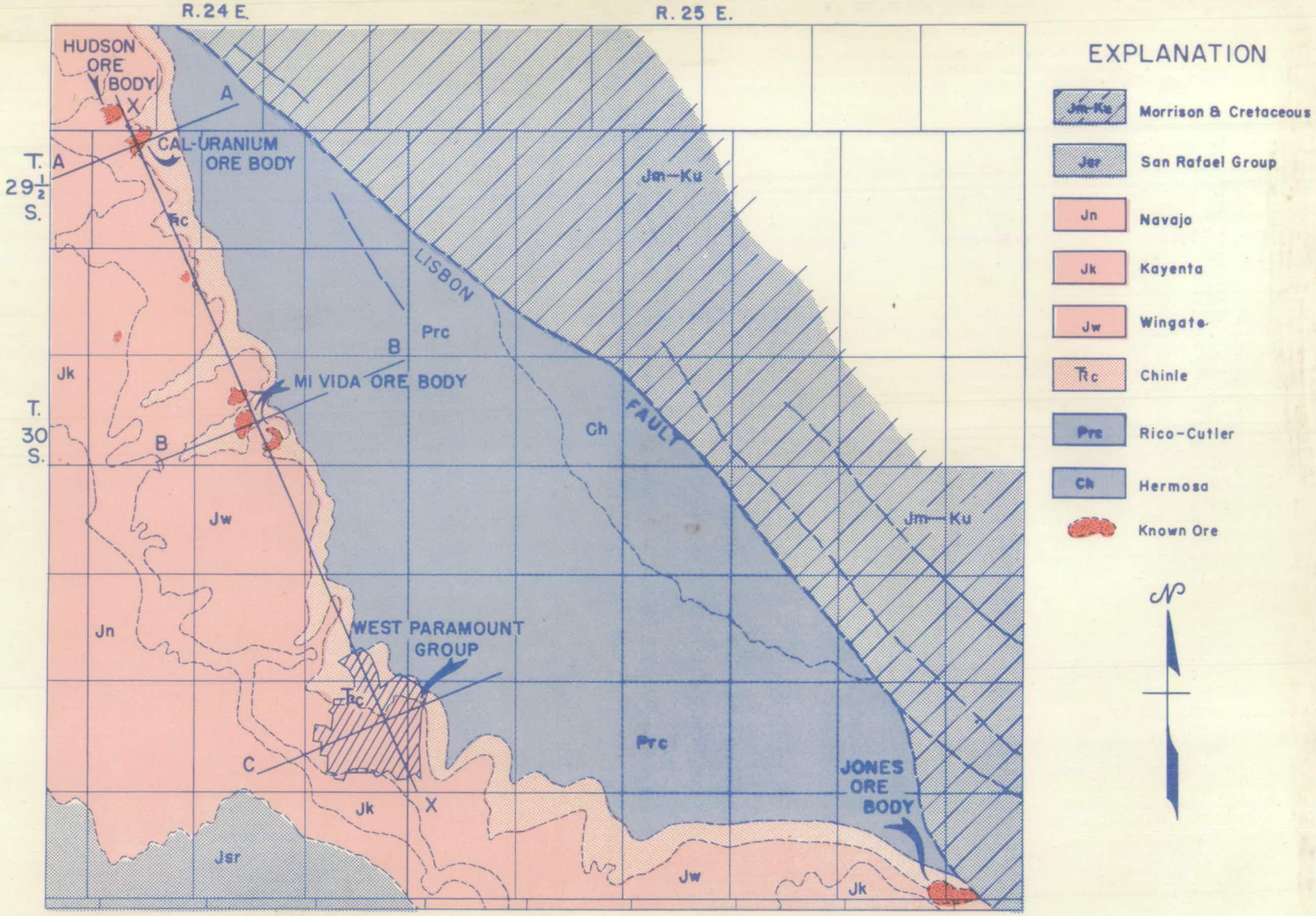
It is our sincere opinion, based on present geologic knowledge, that these properties are situated in one of the very most valuable areas in Utah. We are of the opinion that these properties possess as high a speculative value as any untested properties currently being explored or offered for sale or lease. It is a pleasure to recommend an exploration project on properties of this potential.

If we can be of further service to you when you commence your exploration program, please feel free to call upon us.

Sincerely yours,

Norman C. Williams

NCW:ns



GEOLOGIC MAP OF THE BIG INDIAN MINING DISTRICT, SHOWING LOCATION OF THE WEST PARAMOUNT GROUP

SCALE

0 5 Miles

GEOPROFESSIONAL SERVICES INC.

CLG:BS-7Jul54-5wly

A G R E E M E N T

THIS AGREEMENT, made this 9th day of July, 1954, by and between REPUBLIC URANIUM CO., a corporation organized and existing under and by virtue of the laws of the State of Utah, hereinafter referred to as "Buyer", and H. EVAN ROBERTS, hereinafter referred to as "Seller"

W I T N E S S E T H :

WHEREAS, the Seller entered into a written agreement with G. O. Patterson, John L. Ballou and John B. Marshall on the 4th day of November, 1953, which agreement is attached hereto and made a part hereof and identified as Exhibit "A"; and

WHEREAS, after the execution of the said agreement of November 4, 1953 a survey was made of all of the said claims referred to therein, at which time it was ascertained that in the area covered by said claims there were certain gaps and overlaps and therefore in accordance with paragraph 16 of said agreement, additional and new claims were filed thereon by the Lessors referred to in said agreement and said new claims are subject to the terms, conditions and provisions of said agreement in the same way as the other claims which are particularly specified in said agreement inasmuch as they are within the outer perimeter of said mining property.

WHEREAS, Seller desires to transfer and assign to Buyer and Buyer desires to acquire from Seller three-quarters

(3/4) of the interest of Seller in and to the hereinafter described and specified claims, some of which are particularly specified in said agreement and some of which are claims created as aforesaid after the execution of said agreement, subject to the terms, provisions and conditions of said agreement.

NOW, THEREFORE, it is mutually agreed by and between the parties as follows, to wit:

1. Seller agrees to sell, assign and transfer to Buyer and Buyer agrees to purchase from Seller an undivided three-quarters (3/4) of the right, title and interest of Seller in and to the following described mining claims located in the Big Indian Mining District, San Juan County, State of Utah, subject to the terms, conditions and provisions of said agreement marked Exhibit "A", to wit:

NAME OF CLAIM	RECORDING DATA	
	Page	Book
Black Brush #1	23	83
Black Brush #2	23	83
Black Brush #3	23	84
Black Brush #4	23	84
Black Brush #5	23	85
Black Brush #6	23	85
Black Brush #7	23	86
Big Indian Rock	23	22
Brigham Tea #1	23	32
Brigham Tea #1-Fraction	49	97
Brigham Tea #2	23	32
Brigham Tea #3	23	33
Brigham Tea #4	23	33
Brigham Tea #5	23	34
Brigham Tea #6	23	34
Brigham Tea #7-Fraction	47	491

Name of Claim	Recording Data Page	Book
Greasewood #1	25	7
Greasewood #1-Fraction	97	473
Greasewood #2	25	5
Greasewood #2-Fraction	49	102
Greasewood #3	25	5
Greasewood #4	25	6
Greasewood #5	25	6
Greasewood #5-Fraction	49	103
Independence	29	280
Independence #1-Fraction	49	104
Low Load	23	23
Low Load #1	25	7
Low Load-Fraction	49	104
Low Load #1-Fraction	49	105
Paramount #7	19	143
Paramount #8	19	144
Paramount #9	19	144
Paramount #10	19	145
Paramount #11	17	301
Paramount #12	17	301
Paramount #13	17	302
Paramount #14	17	302
Red Book (NW½ only)	23	56
Red Book #1 (NW-1/3 only)	23	57

2. Buyer shall forthwith apply to Utah State Securities Commission for a final Issuer's Permit and upon the granting thereof shall forthwith transfer to Seller on its books 1,500,000 shares of its common capital stock and deliver to seller as soon as possible thereafter a stock certificate or certificates therefor. In addition and as soon as said Permit has been granted Buyer agrees to pay to Seller the sum of $60,000.00. It is expressly understood and agreed that in the event said payment of $60,000.00 and said transfer of stock pursuant to said permit is not made by Seller on or before July 15, 1954, this agreement shall be null and void and of no further force or effect.

3. Buyer agrees to commence drilling, or its equivalent as provided in the agreement identified as Exhibit "A" on the property herein described on or before October 1, 1954 on the following basis: 1,640 feet or equivalent per month until 10,000 feet or equivalent have been drilled or completed.

Buyer shall be solely responsible for the performance of all of said work connected with said drilling or equivalent and all of the work in that connection shall be under the control of Buyer. Seller agrees to pay one-half (1/2) of the expense of said drilling or equivalent provided however that in no event shall his one-half obligation exceed the sum of $17,000.00. Any expense in that connection exceeding a total of $34,000.00 shall be the sole and exclusive responsibility of Buyer. Buyer shall bill Seller for his portion of said expense at the end of each month and Seller shall pay his one-half of the said expenses on the 10th of the month following the month during which said expenses were incurred after he has satisfied himself as to the correctness ~~and propriety~~ of the amount of the total expense. All books, records and accounts of Buyer with reference to such expenses shall be open to the inspection of Seller at all times.

4. With reference to the provisions of paragraph 3 of said agreement, copy of which is attached hereto marked Exhibit "A", calling for payment of advance royalties of $40,000.00 on January 2, 1955, January 2, 1956, January 2, 1957 and January 2, 1958, it is understood and agreed

that Buyer shall pay towards the same $10,000.00 on or before January 2, 1955 and $15,000.00 on or before the second day of each January thereafter to and including January 2, 1958. In the event Buyer does not make these payments as herein provided then and in such event this contract shall terminate and end and Buyer shall have no further right, title or interest in said claims covered by this agreement or in said agreement identified as Exhibit "A" or under or by virtue of this agreement and Buyer shall execute and deliver to Seller upon the demand of Seller any instrument or document required by Seller for the purpose of effectuating the retransfer and re-assignment to Seller of all the right, title and interest of Buyer in and to the said claims or to clear the right, title or interest of Seller of and from the effect of this agreement.

In such event the stock and money hereinabove referred to paid by Buyer to Seller shall be retained by Seller as consideration to Seller for the execution of this agreement and no part or portion thereof shall be refundable or repayable to Buyer. Any notice of default required to be given by Seller to Buyer elsewhere in this agreement shall not apply to this particular paragraph 4.

5. It is expressly understood and agreed that any expenses of operation including expenses of drilling for any drilling above and beyond the first 10,000 feet shall be under the control of Buyer but all expenses shall be shared by Buyer and Seller on the basis of 75% to Buyer and 25% to Seller. In the event said properties are

operated as a mining venture, Seller shall receive, in addition to the consideration herein provided, one-fourth (1/4) of the profits derived therefrom. All books, records and accounts of Buyer with reference to such expenses or with reference to such mining venture shall be open to the inspection of Seller at all times.

6. Seller at his option at any time may assign to Buyer the 1/4 interest retained by him in the said claims covered by this agreement (in which event the same shall be accepted by Buyer) and Seller upon such assignment shall be relieved of any further obligation by reason of this agreement except the said obligation to pay one-half the drilling expense not to exceed $17,000.00 as provided in paragraph 3 hereof, and except the obligation to pay $10,000.00 on or before January 2, 1955 towards the total payment of $20,000.00 which is to be made on that date in accordance with the terms of said agreement identified as Exhibit "A", in the event Buyer has elected to pay the other $10,000.00. It is expressly understood however that Seller shall have no obligation to pay said $10,000.00 unless and until Buyer has paid the same as provided herein.

7. Buyer agrees to pay all bills promptly on or before the 10th day of the month following the month in which they accrue. Buyer agrees at all times, while in possession of said property or while this agreement is in effect, to comply with all applicable laws of the State of Utah including the Workmen's Compensation Act and with all applicable laws of the United States of America and to keep

said properties in good standing and free from encumbrance or forfeiture. In particular said property at all times shall be kept clear of any liens or claims, especially, but not by way of limitation, liens of mechanics or materialmen.

8. Buyer shall take out and maintain a public liability insurance policy in the sum of Three Hundred and Fifty Thousand Dollars ($350,000.00) covering both Buyer and Seller as their respective interests may appear and any other type of insurance which Buyer may deem necessary in order to fully protect both Buyer and Seller the cost of which insurance shall be treated as a cost of operation.

9. Buyer assumes and agrees to pay the royalty payments referred to in paragraph 3 of the agreement copy of which is attached hereto marked Exhibit "A", as provided therein and further agrees to pay to Grant H. Bag~~ley~~ as Trustee, an additional royalty out of the proceeds received from the sale of ore from the claims covered by this agreement as follows:

Value of Ore per Ton F.O.B. Mine			Overriding Royalty
$ 0.00	to	$10.00	4%
$10.00	to	$20.00	5%
$20.00	to	$60.00	6%
$60.00	to	$100.00	7%
$100.01	and above		8%

The overriding royalty is determined by multiplying the value of the ore, f.o.b. mine, including bonuses, times the appropriate overriding royalty as set out above. Royalty payments to be made ten (10) days after payment is received for ore shipped.

The foregoing overriding royalties are in addition to and separate and apart from the royalties to be paid to Patterson, Marshall and Ballou in accordance with the agreement between them and Roberts, dated November 4th, 1953, a copy of which is attached hereto marked Exhibit "A".

The minimum royalty to be paid to said Grant H. Bagley as Trustee shall be Four Hundred and Twenty-five Dollars ($425.00) per month, payable monthly commencing January 1, 1956 and continuing during the term and existence of said agreement a copy of which is attached hereto marked Exhibit "A", or any agreement in substitute therefor pursuant to which Buyer through Seller shall be entitled to mine and operate the claims covered by this agreement.

Any and all royalties paid by Buyer pursuant to this paragraph shall likewise be treated as a cost of operation.

10. Except as to the provisions of paragraphs 2 and 4 of this agreement, in the event Buyer is in default in any respect under the provisions of this agreement Buyer shall have ten (10) days after receipt of written notice from the Seller to correct said default and in the event Buyer does not do so Seller at his option may terminate this agreement by written notice to that effect delivered in person to any officer of Buyer or mailed to Buyer. In the event of such termination Buyer on request of Seller shall make, execute and deliver any instrument or document which Seller deems necessary in order to evidence the termination of this agreement or to clear said property of and from the effects of this agreement and of and from any claim, right or interest on the part of Buyer. Such notice of termination in no event shall relieve Buyer of

any liability or obligation then existing nor shall the same entitle Buyer to any retransfer, redelivery or refund of any monies, stock or other property which up to the date thereof may have been paid over, transferred or delivered to Seller under the terms of this agreement.

11. It is understood and agreed that Seller will endeavor to obtain from G. O. Patterson, John L. Ballou and John B. Marshall a new agreement supplanting Exhibit "A" attached hereto by which the property herein described shall be treated separately and on separate terms and the remaining claims, that is to say those not covered by this agreement, will be treated separately and by separate terms. ~~In such new agreement Seller shall endeavor to have provision made so that with respect to the claims covered by this agreement between Seller and Buyer, Buyer shall be required to pay $20,000.00 annually for four (4) years as advance royalties.~~ In the event such an agreement is secured by Seller, Buyer agrees to accept the same and the provisions of this agreement shall apply in all respects to the new agreement thus obtained by Seller with reference to the particular claims covered by this agreement and thereupon on demand of Seller Buyer shall forthwith pay to Seller the sum of $10,000.00 which said sum shall represent the sum of $10,000.00 which otherwise would not be payable by Buyer under the terms of this agreement until January 2, 1955.

12. This agreement shall be binding upon and shall inure to the benefit of the parties hereto and their

respective heirs, executors, administrators and assigns.

13. Any communications to Seller shall be addressed to him at:

109 Loralyn Drive
Arcadia, California.

Any communications to Buyer shall be addressed to it at:

223 Phillips Petroleum Bldg.
Salt Lake City, Utah.

IN WITNESS WHEREOF, the parties hereto have executed these presents in the State of Utah the day and year first hereinabove written.

REPUBLIC URANIUM CO.

By Richard William Clayton
RICHARD WILLIAM CLAYTON
Its President.

BUYER

H. Evan Roberts
H. EVAN ROBERTS

SELLER

STATE OF UTAH)
) SS.
County of Salt Lake)

On the 9th day of July, 1954, personally appeared before me RICHARD WILLIAM CLAYTON who, being by me duly sworn did say that he is the President of REPUBLIC URANIUM CO., and that said instrument was signed in behalf of said corporation by authority of its by-laws, and said RICHARD WILLIAM CLAYTON acknowledged to me that said corporation executed the same.

WITNESS my hand and official seal.

Notary Public, residing at Salt Lake City, Utah.

My Commission Expires:

April 16, 1957

STATE OF UTAH)
) SS.
County of Salt Lake)

On the 9th day of July, 1954, before me, the undersigned, a Notary Public in and for said County and State, personally appeared before me H. EVAN ROBERTS known to me to be the party who signed the above document with that name and who acknowledged to me that he did sign said document.

WITNESS my hand and official seal.

Notary Public, residing at Salt Lake City, Utah.

My Commission Expires:

April 16, 1957

AGREEMENT

THIS AGREEMENT, made and entered into November 4th, 1953, in the City of Moab, State of Utah, by and between G.C. Patterson, John L. Ballou, and John B. Marshall, all of the State of Utah, hereinafter together referred to as "First Parties", and H. Evan Roberts of the State of California, hereinafter referred to as "Second Party", is made with reference to the following facts:

First parties heretofore have filed 58 Uranium Lode Mining Claims in Big Indian Valley, County of San Juan, State of Utah, sometimes known as the Paramount Claims, and described as follows:

Paramount	1 to 10 inclusive	Book 19 Pages 140 to 145
Paramount	11 to 14 inclusive	Book 17 Pages 301 and 302
Brigham Tea	1 to 6 inclusive	Book 23 Pages 32 to 34 incl.
Old Crow	1 to 3 inclusive	Book 23 Page 30 to 31 incl.
Old Crow	4, 5, and 6	Book 25 Pages 8 and 9
High Point	1 to 9 inclusive	Book 19 Pages 145 to 149
High Point #1	Amended location	Books 25 Page 4
High Point		Book 25 Page 8
Greasewood	1 to 5 inclusive	Book 25 Pages 5 to 7 incl.
Black Brush	1 to 7 inclusive	Book 23 Pages 83 to 86 incl.
Lost Canyon		Book 23 Page 24
Lost Canyon	1 and 2	Book 29 Page 279
Crooked Wash		Book 19 Page 306
Independence		Book 29 Page 280
Big Indian Rock		Book 23 Page 22
Fair Hope		Book 23 Page 23
Fair Hope		Book 19 Page 306
Low Load		Book 23 Page 23
Low Load #1		Book 25 Page 7

Application has been made by First Parties for an Atomic Energy Commission lease on the property on which the said 58 claims are located, which application is now pending.

It is the desire and intention of the parties that the Second Party shall obtain and have the exclusive right to occupy the said mining claims for a period of five (5) years and so long thereafter as mining, development, exploration or prospecting is conducted upon any of said mining properties, whether by a direct lease from the Atomic Energy Commission, or whether by a lease from the Atomic Energy Commission to First Parties which is assigned by First Parties to Second Party or by a lease from First Parties to Second Party or otherwise. Accordingly, and with that in mind, it is hereby covenanted and agreed by and between the parties as follows:

1. First Parties have represented and do hereby represent that said claims are validly located, subject to oil and gas leases issued by the United States of America, assignable and saleable, subject to the rules and regulation of the Atomic Energy Commission, and that all of them are free and clear of any right or claim on the part of any other person whatsoever except only ROD P. DIXON OR HIS ASSIGNEES by virtue of that certain Agreement between First Parties and said Rod P. Dixon dated September 14th, 1953, as amended October 6th, 1953, and except only as to about three or four of said claims as to which there may be some contention by subsequent claimants that the outside limits thereof are over-extended. In the latter connection First Parties represent that the entire area in dispute does not exceed the area of one single claim or twenty acres total. As to any defects of any sort whatsoever in the title to any of said claims it is understood and agreed that First Parties promptly will take all necessary steps to remove said defects so that all of said claims will be free and clear and valid as expeditiously as possible.

EXHIBIT "A"

2. Contemporaneously with the execution of this Agreement Second Party has paid over to First Parties the sum of $10,000.00, receipt of which is hereby acknowledged. As soon as the lease from the Atomic Energy Commission is issued to First Parties, or as soon as First Parties otherwise obtain the right from the Atomic Energy Commission to produce and sell uranium from said claims, First Parties will immediately transfer and assign all of said rights to Second Party. On or before January 2, 1954, Second Party will pay to First Parties an additional sum of $20,000.00. At any time prior to the payment of said sum of $20,000.00 Second Party may go onto said property and take possession thereof and perform any work or do any acts thereon that in the opinion of Second Party may be necessary or desirable, except only that no drilling whatever on said property shall be done. After the payment of said sum of $20,000.00 Second Party shall have the right to do any and all drilling that Second Party may desire and from that date forward shall have full and complete and exclusive control and possession of the said property for all purposes, for the term above stated, unless otherwise limited by law or regulation.

3. The consideration to be paid by Second Party to First Parties shall be an overriding royalty which shall be payable by Second Party to First Parties as follows:

The said total of $30,000.00 hereinabove referred to shall constitute advance royalties for the period January 2, 1954 through December 31, 1954. Advance royalties of $40,000.00 shall be paid on January 2, 1955, January 2, 1956, January 2, 1957, and January 2, 1958. In addition to said specific advance royalties, Second Party shall pay to First Parties so long as Second Party shall have the exclusive right to operate the said mines and produce and sell the ore therefrom a royalty of 10% of all gross income, including bonus payments, f.o.b. the said mines, received by Second Party from the sale of ore from said mines or claims. Said royalty payments shall be payable within ten days after receipt by Second Party of the money from the sale of said ore.

4. Either First Parties or Second Party may file proofs of labor required by the Mining Statutes of the United States and/or of the State of Utah, in the event such should be or ever become necessary and in such event the burden to see that the same is done and that the required assessment work, if any, is done, shall rest with both First Parties and Second Party, provided, however, that the cost thereof shall be paid by Second Party.

5. First Parties will give notice of this Agreement to the Atomic Energy Commission and will otherwise with all due diligence take care of any other matters which may be necessary in order to obtain said lease from the Atomic Energy Commission or to do anything else which will permit said property to be operated and the ore therein to be produced and sold by Second Party hereunder as soon as possible.

6. The drilling and mining of the claims covered by this lease shall be done and performed by Second Party in accordance with standard and competent methods.

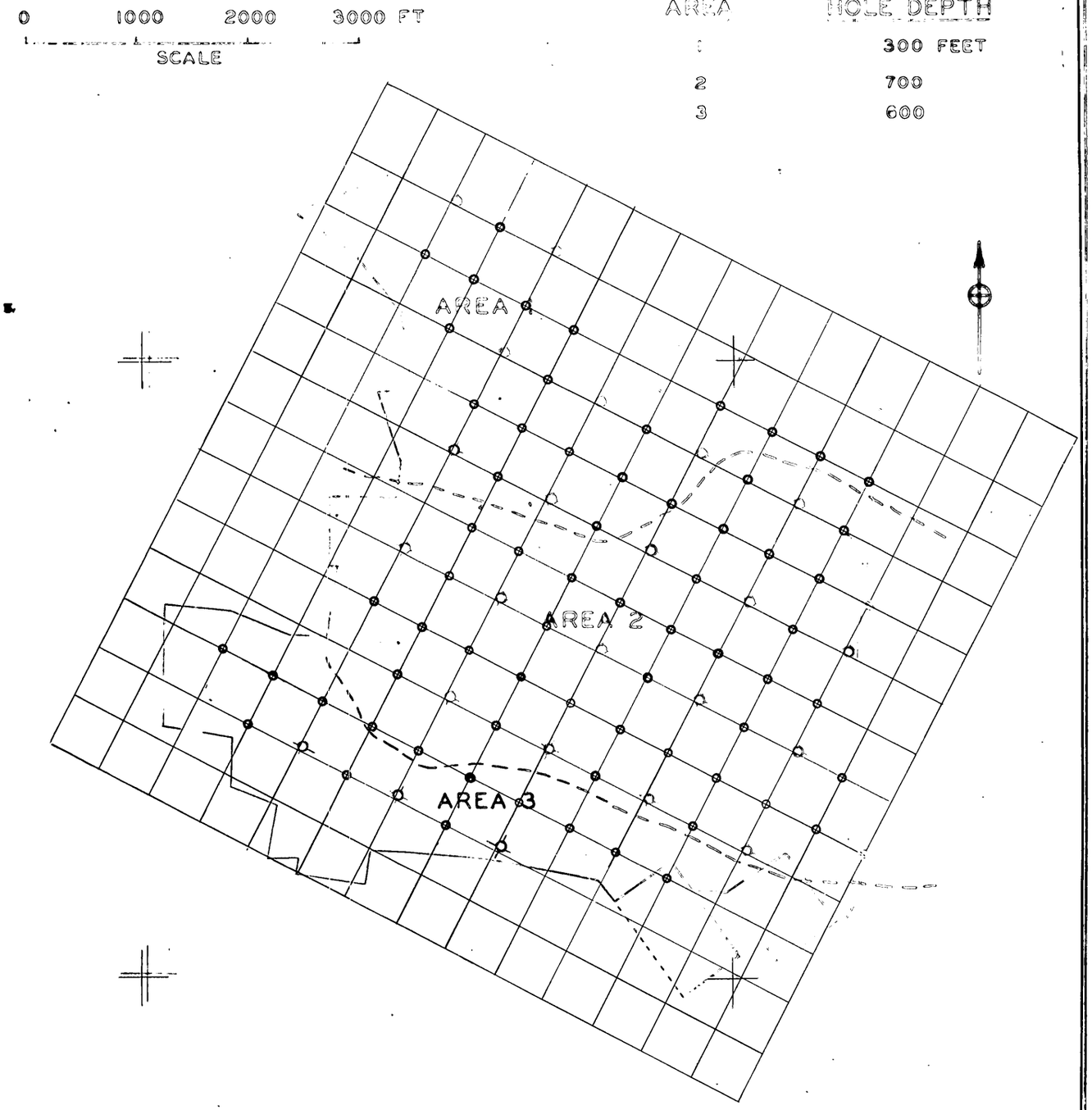
7. First Parties or any of them shall be entitled to inspect all of the records of Second Party pertaining to said mining properties at any reasonable time and to inspect the mining operations or drilling operations being carried out and performed upon said property by Second Party at any reasonable time, provided that such data shall be revealed to no one whomsoever without the express permission in writing of Second Party.

8. At any time during the term of this Agreement Second Party, without any reason whatsoever, may cancel the same by giving notice in writing to that effect to First Parties, or any of them. In such event this Agreement shall become null and void and of no further effect except that Second Party shall nevertheless be required to pay any of said 10% royalties then due and payable. Second Party shall then, upon request of First Parties, make, execute and deliver to First Parties any instrument and document necessary to clear the title of First Parties from the effect of this agreement.

9. Upon the termination of this agreement for any reason whatsoever Second Party may, within a reasonable time, not to exceed six (6) months remove from the above described premises all engines, tools, machinery, railroad tracks, structures, and other property, real or personal, erected or placed by Second Party upon or in its said premises.

10. Second Party agrees to promptly and fully pay for any materials that at the request of Second Party may be furnished by any person what-

TO ACCOMPANY REPORT TO DMEA – REPUBLIC URANIUM COMPANY



AREA	AVERAGE HOLE DEPTH
1	300 FEET
2	700
3	600

PLATE 1 – PROPOSED HOLES – 500' GRID SPACING

PROPOSED HOLES ON 1000' GRID SPACING – PHASE 1

OFFERING CIRCULAR — July 14, 1954

12,500,000 Shares

Republic Uranium Company

A Utah Mining Corporation

CAPITAL STOCK 1c PAR VALUE – NON-ASSESSABLE

Offering Price – 1c Per Share

THESE SECURITIES ARE OFFERED AS A SPECULATION AND THEIR INITIAL SALE LIMITED TO BONA FIDE UTAH RESIDENTS ONLY

OFFERING STATEMENT:

Shares	*Offering Price*	*Underwriting Commission*	*Proceeds to Company*
12,500,00 shares Public Offering			
Per share	1c	12½%	87½%
Total	$125,000.00	$15,625.00	$109,375.00
1,875,000 shares On option	$ 18,750.00	None	$ 18,750.00*
14,375,000	$143,750.00	$15,625.00	$128,125.00

* This sum represents proceeds to the company only if the options are fully exercised. The Company organizers may exercise their option to purchase only upon conditions set forth hereinafter.

*THESE SECURITIES HAVE BEEN REGISTERED WITH THE UTAH SECURITIES COMMISSION BECAUSE SUCH SECURITIES ARE BELIEVED TO BE SUBJECT TO REGISTRATION. BUT SUCH REGISTRATION IN NO SENSE INDICATES A RECOMMENDATION OR ENDORSEMENT BY THE COMMISSION OF ANY SECURITY, INDIVIDUAL, FIRM OR CORPORATION.

Underwriter

CALL-SMOOT & COMPANY
Phillips Petroleum Building
Salt Lake City, Utah

Transfer Agent

T. J. CHRISTIANSEN
Phillips Petroleum Building
Salt Lake City, Utah

HISTORY AND PURPOSE

Pre-Incorporation

Prior to the actual incorporation of the company, its organizers, who are its present Board of Directors, obtained a permit from the Utah State Securities Commission, on June 10, 1954, to sell pre-incorporation stock. Call-Smoot & Co. was engaged as underwriter on a "best efforts" basis. The initial public offering of 12,500,000 shares at par (1 cent) was limited to bona fide Utah residents, and each subscriber was required to sign an affidavit setting forth his Utah residence. Every subscriber was tendered a copy of pertinent information relative to the proposed company and expressly informed as to the highly speculative nature of the venture. No representation as to the company's proposed holdings or chances of future financial success was authorized and it is believed, none was made.

The company feels assured that these precautionary measures have brought this public offering of pre-incorporation stock within the express exemption provided in the Securities Exchange Act of 1933 for strictly intrastate offerings.

Incorporation and Proposed Business Activities

The public offering was successfully completed on or about July 8th, 1954, and the sum of $125,000.00 thereafter deposited with the Continental Bank and Trust Company of Salt Lake City, Utah.

The Company was organized as a uranium mining company under the laws of Utah and its charter issued the 21st day of June, 1954. Final Issuer's Permit was granted by the Utah State Securities Commission on July 13, 1954.

The Company, as a new business in its exploratory and developmental state, has no record of prior business activities or operations. It intends to engage generally in the acquisition exploration, development and mining of uranium and vanadium properties. Such a general purpose is not to be construed however, as limiting the Company in its field of operations and the Articles of Incorporation provide for broad discretion by the Board of Directors as to what business activities are to be pursued and what mineral properties, including oil and gas, shall be acquired and developed.

INFORMATION RELATING TO OFFICERS, DIRECTORS AND ORGANIZERS

The Full names of the Directors, officers and organizers and all persons controlling the issuer and their direct and indirect material interest in the issuer and in any assets proposed to be acquired or operated by the issuer are as follows:

RICHARD WILLIAM CLAYTON—President, Director and organizer, resides at 2534 Hartford Street, Salt Lake City, Utah. He is an insurance executive and manager of the Group Life Department, New York Life Insurance Company. He is a member of the Board of Trustees of the John A. Widtsoe Foundation. He holds 35,000 shares purchased on the open market for investment purposes.

GORDON F. JENSEN—Executive Vice President, Director, organizer, resides at No. 11 "A" Street, Salt Lake City, Utah. He is a university graduate in physics and is currently associated with Jensen Construction Co. He holds 35,000 shares purchased on the open market for investment purposes.

DON V. COOK—Second Vice President, Director, organizer, resides at 7675 South 1300 East, Midvale, Utah. He is affiliated with the Cook-Osborne Concrete Company. He holds 10,000 shares purchased on the open market for investment purposes.

RAY S. ROBINSON—Secretary, Director, organizer, resides at 1548 Blaine Avenue, Salt Lake City, Utah. He is assistant manager of The Rio Grande Lumber Company, and is currently First Vice President of the Salt Lake City Junior Chamber of Commerce. He holds 10,000 shares, purchased on the open market for investment purposes.

JOSEPH R. SMITH—Treasurer, Director, organizer, resides at 116 No. West Temple Street, Salt Lake City, Utah. He is Zone Manager for Investor's Diversified Services, Inc. He holds 10,000 shares purchased on the open market for investment purposes.

ADAM M. DUNCAN—Attorney at Law, 223 Phillips Petroleum Building, Salt Lake City, Utah., counsel for the organizers. He holds 500,000 shares of the Company's capital common stock issued to him as compensation for his assignment to the Company of three options to purchase unpatented mining claims. These claims are more particularly described hereafter under "Properties."

Nominal compensation is currently contemplated for officers with the monthly sum for all such services rendered not to exceed $450.00. This sum may later be revised upward or entirely discontinued.

INCENTIVE STOCK OPTION

1,875,000 shares are held under option pursuant to Article VIII of the Company's Articles of Incorporation, which as a public record are on file with the County Clerk of Salt Lake County, Utah, and with the Secretary of State of Utah. These shares were offered upon definite conditions and were deemed justifiable as an incentive to production and efficient management and as reasonable compensation for services rendered in successfully organizing and developing the

company during its early stages. Accordingly these shares may only be purchased upon the following terms:

The President may purchase 200,000 shares at par at the end of a three month period immediately after incorporation, and an additional 200,000 shares at par when and if the gross earnings of the corporation shall exceed $25,000.00, and an additional 200,000 shares when and if the company shall pay its stockholders a bona fide dividend.

Each of the other four officers has a like option to purchase unissued shares at par on identical provisions, except the Executive Vice President, the Second Vice President and the Treasurer shall be allowed to purchase on said conditions blocks of stock numbering 75,000 shares each and the Secretary blocks of 100,000. These options are not assignable, nor divisable and must be paid for in cash. An additional 300,000 shares are held under option to Adam M. Duncan. These shares may only be purchased after the lapse of a three months period, and are both assignable and divisable.

All optioned shares are to be paid for in cash within a reasonable time after they are available or be returned to the treasury as unissued stock. This option is deemed a reasonable compensation to the organizers and promoters for services rendered to the company and indirectly to the stockholders and will serve as an incentive to efficient management and operation.

LEGAL MATTERS

There are no legal actions pending or judgments entered against the issuer and, to the best knowledge of the issuer and its officers, no legal actions against it are contemplated.

Legal matters pertaining to this public offering have been passed upon by Adam M. Duncan, attorney at law, 223 Phillips Petroleum Building, Salt Lake City, Utah.

PROPERTIES

On July 3rd, 1954, the Company obtained from Adam M. Duncan an assignment of three options to purchase unpatented lode mining claims located in three areas of San Juan and Garfield Counties in southern Utah.

The first option, known as the Hansen Lease, comprises some 68 claims located in the Hansen Mining District on Oak Creek in Garfield County, Utah. The Company retained the firm of Geoprofessional Services Inc. to examine the property and C. Preston Allen, attorney at law, to examine the title. Dr. Armand J. Eardley and Robert Coucher of Geoprofessional visited the property on two occasions and prepared and submitted to the company a complete geological

report of the area embraced within the lease. This report, as well as attorney Allen's title opinion, is on file with the Utah State Securities Commission.

The second option, known as the Big Indian Lease, comprises some 40 claims located in Big Indian Mining District of San Juan County, Utah. Geoprofessional examined these claims for the company, and Clifford L. Ashton, attorney, prepared an opinion on the title.

The third option comprises 10 claims located approximately one mile above the fork of Indian Creek and Cottonwood Creek in San Juan County, Utah. This group, described as a raw prospect, was also submitted to Geoprofessional for appraisal.

Due to its limited finances and after thorough examination of the title and geological merit of the three groups held under option, the Company determined to buy the Big Indian Lease and forfeit all claim to the other leases. That portion of the sum of $1,000.00 expended on Geological investigation on and title opinion to the additional groups will be deemed a productive loss to the Company.

Because of its more advantageous location, its proximity to known ore bodies and its more favorable geological structure the Board deemed the Big Indian Lease to be the best business investment. The geological report set forth hereafter as Exhibit "A" it is believed, confirms the wisdom of this decision.

WEST PARAMOUNT TRACT GROUP, BIG INDIAN WASH AREA, San Juan County, Utah

This lease referred to herein as "The Big Indian Lease" is part of a group of claims located by G. O. Patterson, John L. Ballou and John B. Marshall, who assigned their interest to Rod P. Dixon on September 14, 1953, and October 6, 1953, reserving to themselves a 10% overriding royalty interest. Dixon in turn assigned his interest to H Evan Roberts on November 4, 1953, reserving to himself a graduated royalty interest. Royalty interests in the property are as follows:

Royalty interest reserved by Patterson, et al: 10%

Royalty interest reserved by Dixon:

Value of Ore per Ton F.O.B. Mine			Overriding Royalty
$ 0.00	to	$ 10.00	4%
$ 10.00	to	$ 20.00	5%
$ 20.00	to	$ 60.00	6%
$ 60.00	to	$100.00	7%
$100.00	to		8%

The Company purchased an undivided three-quarter interest in this lease from Roberts for $60,000.00 cash and 1,500,000 shares of unissued stock. The Security Title Co. has prepared an

abstract of title to this property as of 8:55 A.M. May 28, 1954, and Clifford L. Ashton, attorney at law, has submitted to the company his legal opinion as to the validity of the title thereto.

The geological report of Geoprofessional is appended hereto as Exhibit "A." This report is deemed by the Company to be most favorable. However, it must be stressed that no representation is made or intended that uranium or vanadium ore in commercial quantities is present or will ever be discovered on this property. Only after an extensive drilling program can the commercial value of the property be ascertained. Thus, the highly speculative nature of this investment must again be emphasized.

CONTEMPLATED USE OF PROCEEDS

It is impossible for a mining company in the exploratory and developmental stage to assign absolute priority to its projected expenditures. The information obtained from initial core drilling, for example, may suggest or dictate an entirely different method of exploration or development. The table set forth hereinafter is, therefore, suggestive and tentative only and the company must, of necessity, reserve the right to reassign priorities or to add thereto.

It is the company's present intention to assign and expend its monies as follows:

1.	Brokers commission 12½% of public offering to Call-Smoot & Co.	$15,625.00
2.	Repayment of corporation costs and initial expenses, including geological reports, stenographic services, printing, incorporation fees, legal services, etc., not to exceed	$ 4,000.00
3.	Payment of sum due on Big Indian Lease	$60,000.00
4.	Drilling committment on the Big Indian Lease	$17,500.00
	Total	$97,125.00
	Uncommitted	$27,875.00

The uncommitted proceeds will be used by the company for the acquisition and exploration of additional properties and reserved in part for other expenses relating to the Big Indian Lease.

THE STOCK

The authorized capitalization of the Company is $175,000 divided into 17,500,000 shares of a par value of one cent per share. All stock is of one class, viz., common, voting, and non-assessable.

FINANCIAL STATEMENT

The following table constitutes the financial condition of REPUBLIC URANIUM COMPANY as of July 14, 1954. No representation is thereby made that financial changes have not occurred or will not occur subsequent to that date.

REPUBLIC URANIUM COMPANY
BALANCE SHEET
July 14, 1954

Current Assets:		
Cash in Bank		$109,375.00
Other Assets:		
Mineral Lease	$ 15,000.00	
Option to Acquire Mineral Leases	5,000.00	20,000.00
Organization Expenses:		
Broker's Commission	$ 15,625.00	
Incorporation Expenses (approximate)	4,000.00	19,625.00
Total Assets		$149,000.00
Current Liabilities:		
Due for Incorporation Expense		$ 4,000.00
Capital Stocks		
Capital Stock authorized (17,500,000 shares common, voting, non-assessable, par value 1c)	$175,000.00	
Less Capital Stock Unissued (3,000,000 shares—see Note 1	30,000.00	
Issued and Outstanding 14,500,000 *shares*		145,000.00
Total Liabilities and Net Worth		$149,000.00

NOTE 1—Options to purchase 1,875,000 shares at par value have been granted officers, directors and attorney for services rendered or to be rendered to the company.

THE OFFERING OF THESE SECURITIES IS MADE ONLY BY THIS OFFERING CIRCULAR. NO DEALER, SALESMAN OR ANY OTHER PERSON HAS BEEN ANTHORIZED TO GIVE ANY INFORMATION OR TO MAKE ANY REPRESENTATION ON BEHALF OF THE COMPANY OTHER THAN THOSE CONTAINED IN THIS OFFERING CIRCULAR, AND, IF GIVEN OR MADE SUCH INFORMATION OR REPRESENTATION MUST NOT BE RELIED UPON AS HAVING BEEN AUTHORIZED BY THE COMPANY OR ITS OFFICERS AND DIRECTORS.

A. J. EARDLEY
PRESIDENT 8-9448
F. W. CHRISTIANSEN
VICE-PRESIDENT 7-4980
N. C. WILLIAMS
VICE-PRESIDENT 87-1812
A. W. ROGERS
SEC.-TREAS. 84-1748
C. L. ASHTON
DIRECTOR 9-1115

GEOPROFESSIONAL SERVICES, INC.
1311 WALKER BANK BUILDING — SALT LAKE CITY 1, UTAH

GEOLOGIC REPORT ON THE WEST PARAMOUNT GROUP

INTRODUCTION

The West Paramount Group consists of 39 claims and fractions, located in the Big Indian district, San Juan County, Utah and comprises an area in excess of 500 acres. (See map). The thirty-nine claims are designated as follows:

Black Bush--1, 2, 3, 4, 5, 6, 7

Big Indian Rock

Brigham tea--1, 1F (Fraction), 2, 3, 4, 5, 7F

Greaswood--1, 1F, 2, 2F, 3, 4, 5, 5F

Independence--1, 1F

Low load--Low load, 1, 1F, F

Paramount--7, 8, 9, 10, 11, 12, 13, 14

Red Book--Red book and Red book No. 1

These properties lie on the central part of the southwest limb of the Big Indian anticline and are situated in the mineralized belt which includes several very large and high grade ore bodies. The Mi Vida mine, discovered by Charles A. Steen in 1952, and the more recently discovered ore bodies known as the Hudson, Cal-Uranium and Jones ore bodies are within this trend. The above lishted claims are

located about 2 miles southeast of the Mi Vida ore body and approximately 4½ miles northwest of the Jones ore body.

GEOLOGIC SETTING

The general geologic relationship of the area under consideration are depicted on the accompanying map. Four consolidated sedimentary rock formations crop out in the area. The oldest and lowermost consists of a sequence of Permian strata, mostly red beds. Overlying the Permian unit is a sequence of beds referred to as the Chinle formation which is composed largely of red beds. The base of the Chinle which contains the ore bearing horizon which is considered to be equivalent to the Shinarump formation. The Chinle formation is succeeded in turn by the Wingate and Kayenta formations.

Uranium ore, in the Big Indian district, is restricted to the basal Chinle or Shinarump formation. The uranium occurs within ancient channels which were in turn formed at the time of depostion of the formation. The ore-bearing Shinarump or equivalent formation is at depth along large areas of the west flank of the Big Indian anticline, including the area of the West Paramount Group. The location of the individual ore bearing channels cannot yet be predicted. Nevertheless, it has been demonstrated to the satisfaction of most geologists that uranium deposits tend to occur in groups, clusters, or "trends". Accordingly, close proximity to known ore deposits is one of the greatest attributes an untested property can possess.

In the area under consideration, the rock exposed at the surface is largely the Chinle and Wingate formations. The depth to the ore

horizon therefore will range from less than 200 feet to slightly more than 700 feet, the average depth being about 500 feet.

RECOMMENDATIONS

The West Paramount group is situated in an area that contains structural and stratigraphic features that are essentially identical to those present in the large, known ore bodies in the district.

The West Paramount group lies within a belt or "trend" of demonstrated large ore bodies and is in close proximity to the fabulous Mi Vida (Steen) ore body.

The ore bearing formation underlies the West Paramount group at a depth that is relatively shallow. The area could be easily explored by conventional drilling methods.

It is the opinion of the writers' that the West Paramount group has an extremely high speculative value and merits a very complete exploration program.

Submitted by,
GEOPROFESSIONAL SERVICES, Inc.

(s/ F. W. Christiansen)
F. W. Christiansen

Norman C. Williams

A. J. EARDLEY
PRESIDENT 8-9448
F. W. CHRISTIANSEN
VICE-PRESIDENT 7-4980
N. C. WILLIAMS
VICE-PRESIDENT 87-1812
A. W. ROGERS
SEC.-TREAS. 84-1748
C. L. ASHTON
DIRECTOR 9-1115

GEOPROFESSIONAL SERVICES, INC.

1311 WALKER BANK BUILDING — SALT LAKE CITY 1, UTAH

July 14, 1954

Republic Uranium Company
Salt Lake City,
Utah

Gentlemen:

Attached is our geologic report, together with the maps and diagrams on your group of claims known as the West Paramount Group.

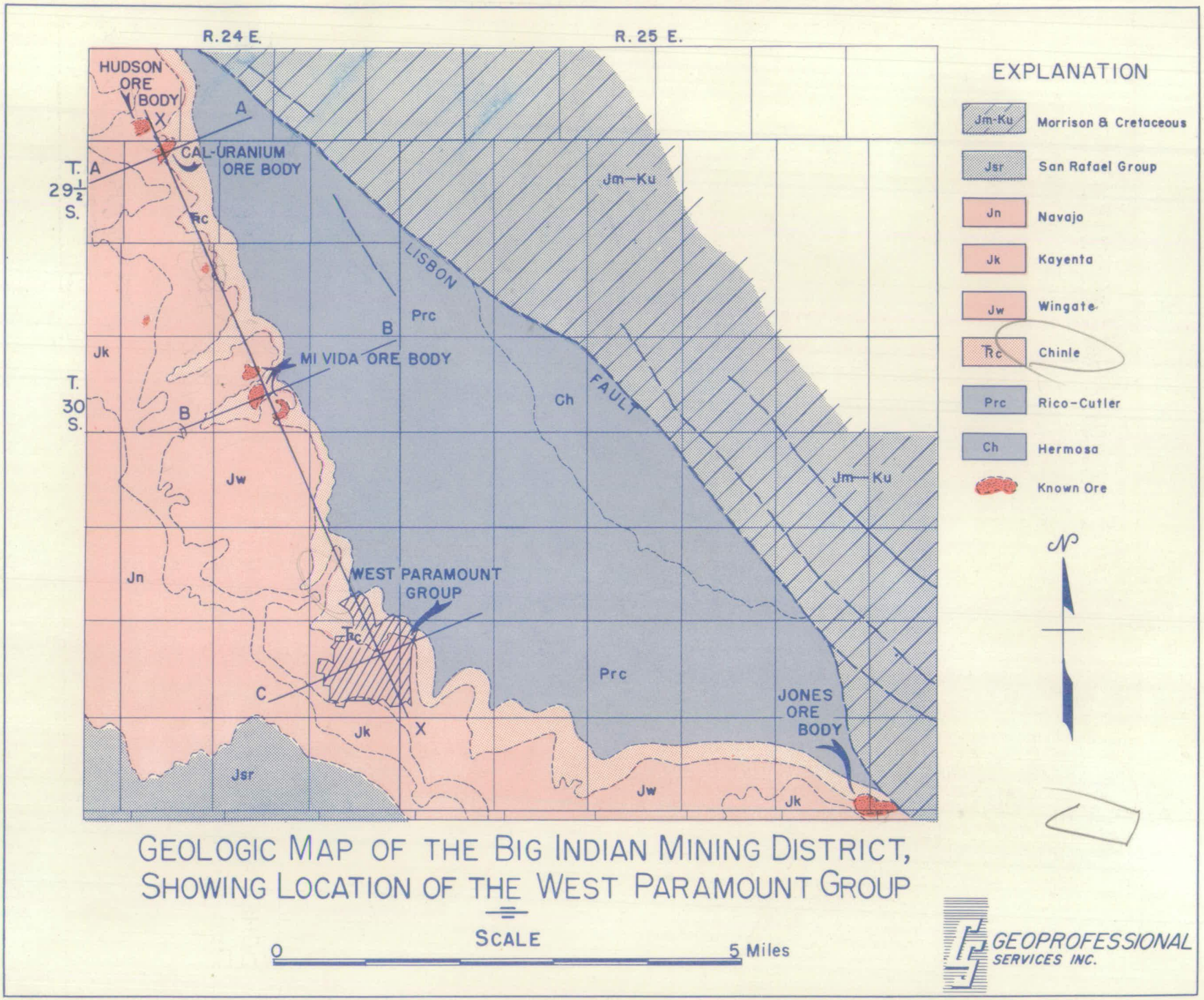
It is our sincere opinion, based on present geologic knowledge, that these properties are situated in one of the very most valuable areas in Utah. We are of the opinion that these properties possess as high a speculative value as any untested properties currently being explored or offered for sale or lease. It is a pleasure to recommend an exploration project on properties of this potential.

If we can be of further service to you when you commence your exploration program, please feel free to call upon us.

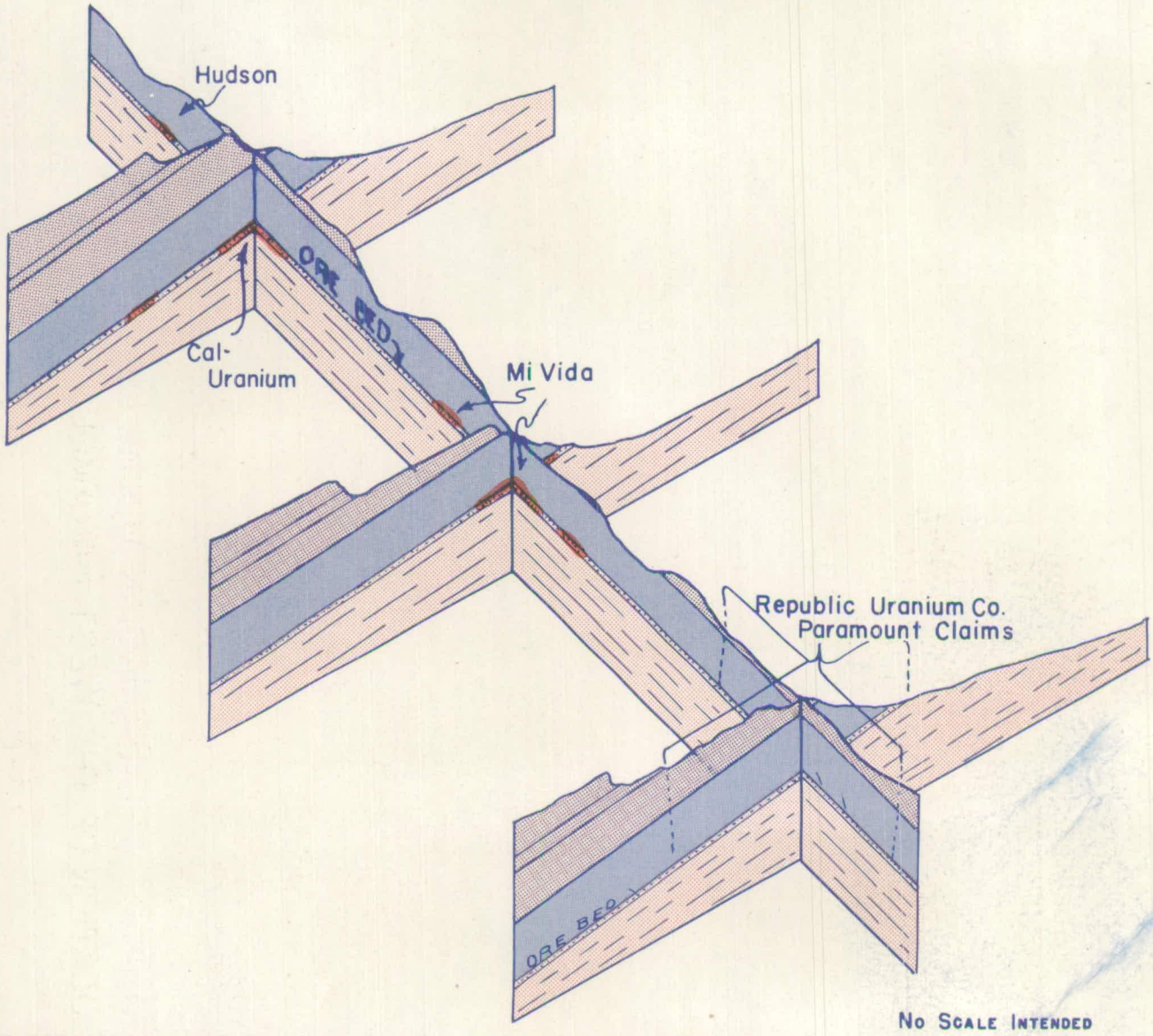
Sincerely yours,

Norman C. Williams

NCW:ns



GEOLOGIC MAP OF THE BIG INDIAN MINING DISTRICT, SHOWING LOCATION OF THE WEST PARAMOUNT GROUP



SCHEMATIC DRAWING SHOWING RELATIONSHIP OF THE CLAIMS OF REPUBLIC URANIUM CO. TO KNOWN ORE DEPOSITS.

GEOPROFESSIONAL SERVICES INC.

12,500. Publics.
1,500. Robertz.
1,875.

15875

17500
15,875

1,625

soever in the work that may be done upon or in said premises under this agreement by Second Party. Second Party will keep said premises and and First Parties free and harmless of all of all liens and liabilities of any kind by reason of the materials and labor furnished therefore at the request of Second Party, or by reason of any acts or omissions on the part of Second Party in connection with the said properties, and will carry adequate Workman's Compensation Insurance.

11. Second Party shall be entitled to forty-five (45) days written notice of any default or violation of any of the terms of this agreement, and if Second Party shall fail to remedy the same within the period of said notice, then at the option of First Parties said First Parties shall have the right to re-enter upon the premises and re-take possession thereof, and may terminate the agreement.

12. Any notice referred to in this Agreement may be served upon First Parties by serving anyone of them personally or by mailing it to them at:

P.O. Box 5
Moab, Utah,

and upon Second Party by serving it upon Second Party personally or by mailing to Second Party at:

739 North Highland Avenue
Los Angeles 38, California

or to such subsequent addresses as either party may have given to the other in writing.

13. Second Party shall commence drilling by March 1, 1954, and thereafter shall drill at the rate of 1650 feet per month until 20,000 feet shall have been drilled, whether in one hole or in a number of holes; provided, however, that instead of drilling, Second Party may sink shafts or perform any other mining operations, the cost of which equals or exceeds the cost of drilling 1650 feet per month until the equivalent of 20,000 feet of drilling has been expended.

14. This agreement and all of the liabilities and obligations of Second Party thereunder, as well as all of the benefits of Second Party thereunder, may be transferred and assigned by Second Party at any time and upon written notice to First Parties of such assignment, Second Party shall be no longer be responsible thereunder and all of the obligations and liabilities thereof shall be the sole obligation and liability of the assignee.

15. In the event it shall hereafter appear appropriate to Second Party in order to carry out the intent and prupse of this agreement that Second Party shall become the owner of said claims, or that some other or different relationship between the parties shall be established, First Parties agree to make, execute and deliver any and all instruments or documents required by Second Party in that regard, provided only that the material terms hereof, and particularly those with respect to payments to be made to First Parties, remain the same, subject to any modification in that regard that may be required by reason of any governmental law, rule or regulation with respect thereto.

16. All uranium claims hereafter located by either First Parties or Second Party or their respective agents or assigns within the outer perimeter of said mining property herein specifically referred to shall be subject to the terms and conditions hereof.

IN WITNESS WHEREOF, the Parties have executed this Agreement in Triplicate in the City of Moab, County of Grand, State of Utah, this 4th day of November, 1953.

G. O. Patterson
G. O. PATTERSON

John L. Ballou
JOHN L. BALLOU

John B. Marshall
JOHN B. MARSHALL

FIRST PARTIES

H. Evan Roberts
H. EVAN ROBERTS

SECOND PARTIES

STATE OF UTAH)
COUNTY OF GRAND) ss

On November 4th, 1953, before me, the undersigned, a Notary Public in and for said County and State, personally appeared before me G. O. PATTERSON, JOHN B. MARSHALL AND H. EVAN ROBERTS known to me to be the persons whose names are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal

Emma M. Dalton
~~Notary Public~~ County Recorder
Residing Grand County (Seal)

The foregoing Agreement supplants and takes the place of that certain agreement by and between First Parties above referred to and Rod P. Dixon dated September 14th, 1953, as supplemented by an extension agreement between them dated October 6th, 1953, a part of which has been assigned by Dixon to F. W. Christiansen and which by Dixon and Christiansen has been in turned assigned completely to H. Evan Roberts.

Dated this 4th day of November, 1953.

G. O. Patterson
G. O. PATTERSON

John L. Ballou
JOHN L. BALLOU

John B. Marshall
JOHN B. MARSHALL

Rod P. Dixon
ROD P. DIXON

F. W. Christiansen
F. W. CHRISTIANSEN

H. Evan Roberts
H. EVAN ROBERTS

STATE OF UTAH) ss.
COUNTY OF GRAND)

On the 4th day of November, 1953, before me, the undersigned, a Notary Public in and for said County and State, personally appeared before me, G. O. PATTERSON, JOHN B. MARSHALL, JOHN L. BALLOU, ROD P. DIXON, ~~F. W. CHRISTIANSEN~~, AND H. EVAN ROBERTS, KNOWN TO ME TO BE THE persons whose names are subscribed to the within instrument and acknowledged that they executed the same.

Witness my hand and official seal.

Emma M. Dalton (Seal)
~~Notary Public~~ County Recorder
Residing in Grand County.

STATE OF UTAH)
COUNTY OF SALT LAKE) ss.

On the 4th day of November, 1953, before me, the undersigned, a Notary Public in and for said County and State, personally appeared before me F. W. Christiansen, known to me to be the party who signed the above document with that name and who acknowledged to me that he did sign said document.

Witness my hand and official seal:
November 4th, 1953

(Seal) Comm exp. 7/7/57

Jos. F. Ringholz
Notary Public
Residing in Salt Lake County

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

OFFICIAL BUSINESS
P. O. Box 560
Juneau, Alaska

VIA AIR MAIL

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

INTERIOR BUILDING

WASHINGTON 25, D. C.