MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1085.2.

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 Nathan Wachsler secy

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.

Marion G. 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

Section	Page
I. Name of Applicant	1
II. Property Rights	2
III. Physical Description	3
A. History	3
B. Geologic Setting	4
C. Structure	5
D. Mineralization	6
E. Accessibility	6
F. Topography and Climate	7
IV. The Exploration Project	8
A. Objective	8
B. Proposed Work	8
V. Estimate of Costs	12
VI. Operating Experience and Background of Applicant	16

ILLUSTRATIONS

Plate	Following Page
1. Proposed Holes on 1000-Foot and 500-Foot Grid Spacing	(Front Cover)
2. Location Map - Paramount Claims	1
3. Stratigraphic Section	5
4. Geologic and Claim Map	(In Pocket)

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:

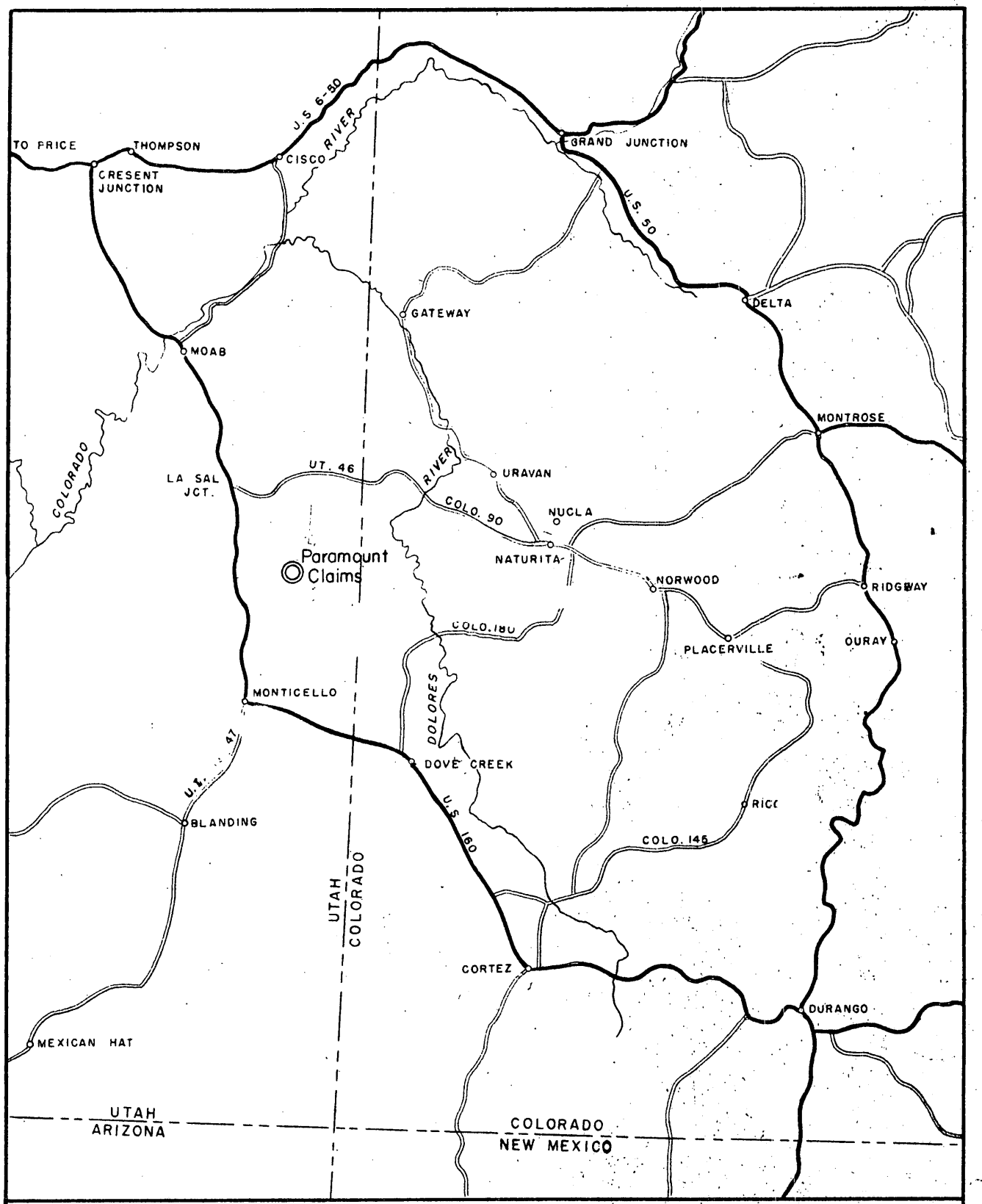
Don V. Cook
7675 South 1300 East
Midvale, Utah

(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	280
Independence #1-fraction	49	104

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

Name of Claim	Page	Book
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	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.
515 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

the 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

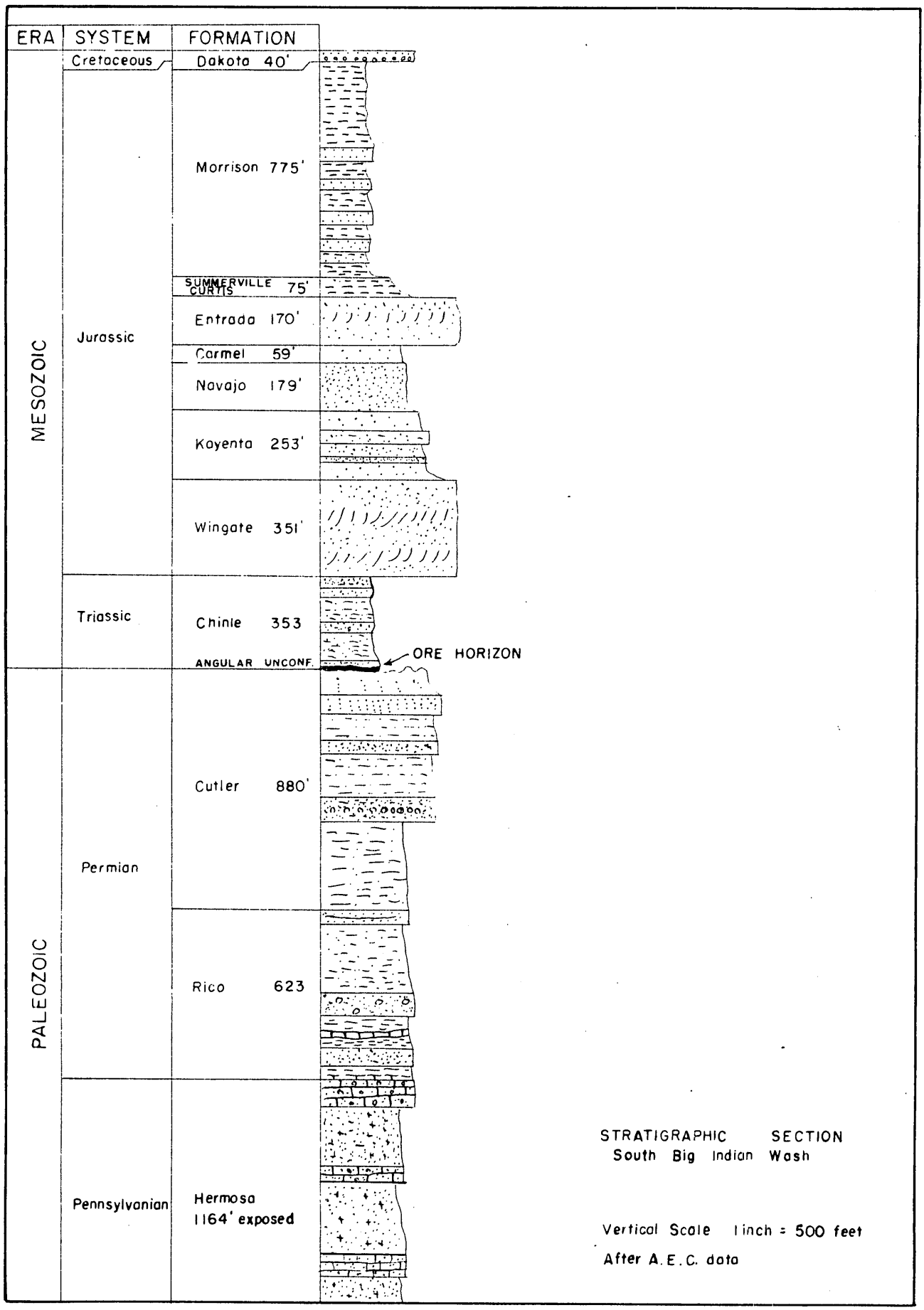

ERA
SYSTEM
FORMATION
MESOZOIC
Cretaceous
Dakota 40'
Jurassic
Morrison 775'
SUMMERVILLE
CURTIS 75'
Entrada 170'
Carmel 59'
Navajo 179'
Kayenta 253'
Wingate 351'
Triassic
Chinle 353
ANGULAR UNCONF.
ORE HORIZON
PALEOZOIC
Permian
Cutler 880'
Rico 623
Pennsylvanian
Hermosa
1164' exposed
STRATIGRAPHIC SECTION
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 reconnaissance 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

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.

Republic Uranium Co., Inc.
515 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,

Republic Uranium Co., Inc.
515 Phillips Pet. Bldg.
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

Republic Uranium Co., Inc.
515 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 BX 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.

Republic Uranium Co., Inc.
515 Phillips Pet. Bldg.
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

Republic Uranium Co., Inc.
515 Phillips Pet. Bldg.
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.
515 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.
515 Phillips Pet. Bldg.
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 "A" 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.
515 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, Sana 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.

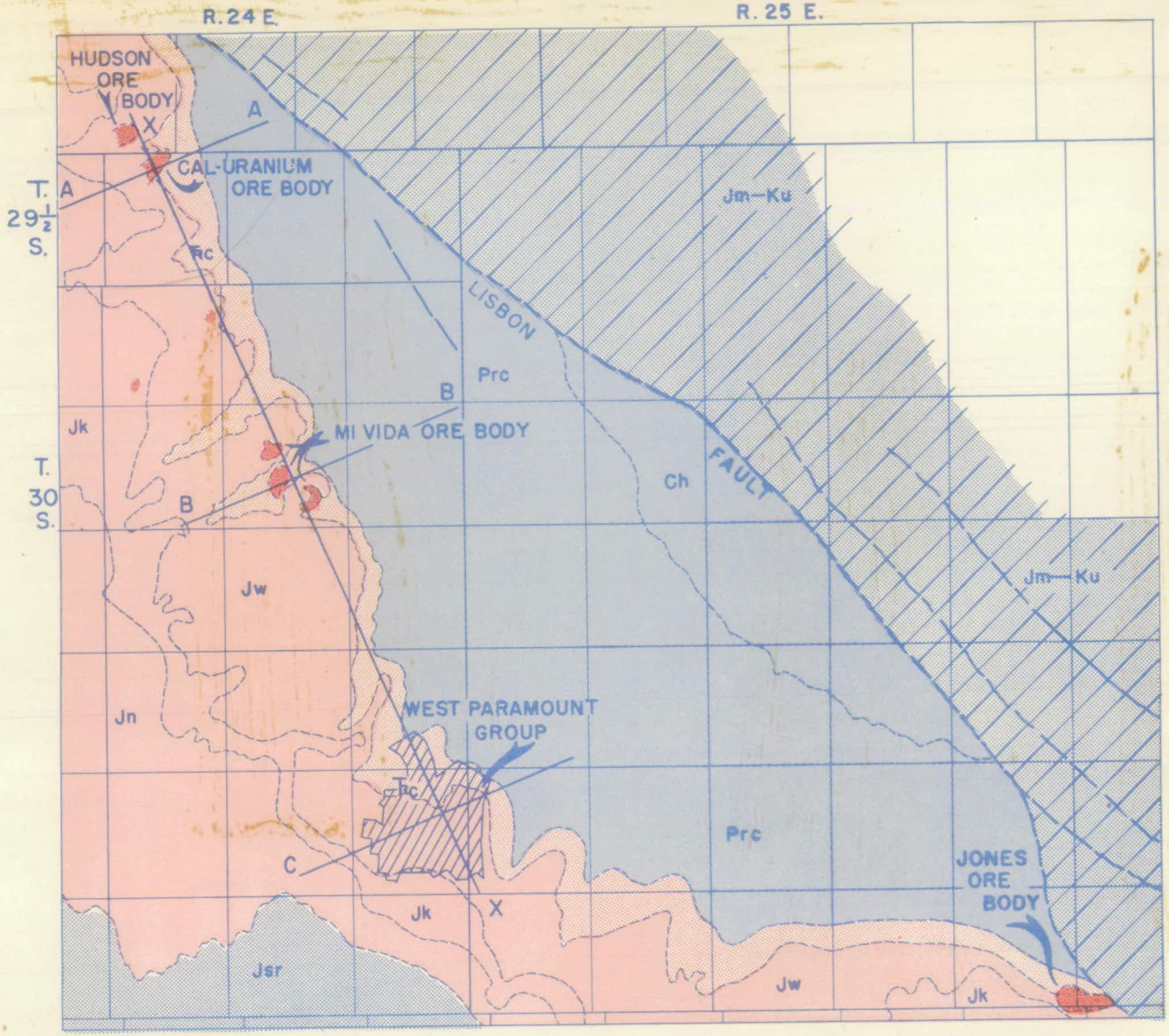
It is our sincere opinion, based on present geologic knowledge, that these properties are situated in one of the very most valuable areas in Utah. We are of the opinion that these properties possess as high a speculative value as any untested properties currently being explored or offered for sale or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



EXPLANATION

- Jm-Ku — Morrison & Cretaceous
- Jsr — San Rafael Group
- Jn — Navajo
- Jk — Kayenta
- Jw — Wingate
- Trc — Chinle
- Prc — Rico-Cutler
- Ch — Hermosa
- Known Ore

N

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. BARDLEY
PRESIDENT 6-0449
F. W. CHRISTIANSEN
VICE-PRESIDENT 7-4980
N. C. WILLIAMS
VICE-PRESIDENT 87-1012
A. W. ROGERS
SEC.-TREAS. 84-1748
C. L. ASHTON
DIRECTOR 0-1115

GEOPROFESSIONAL SERVICES, INC.
1911 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.

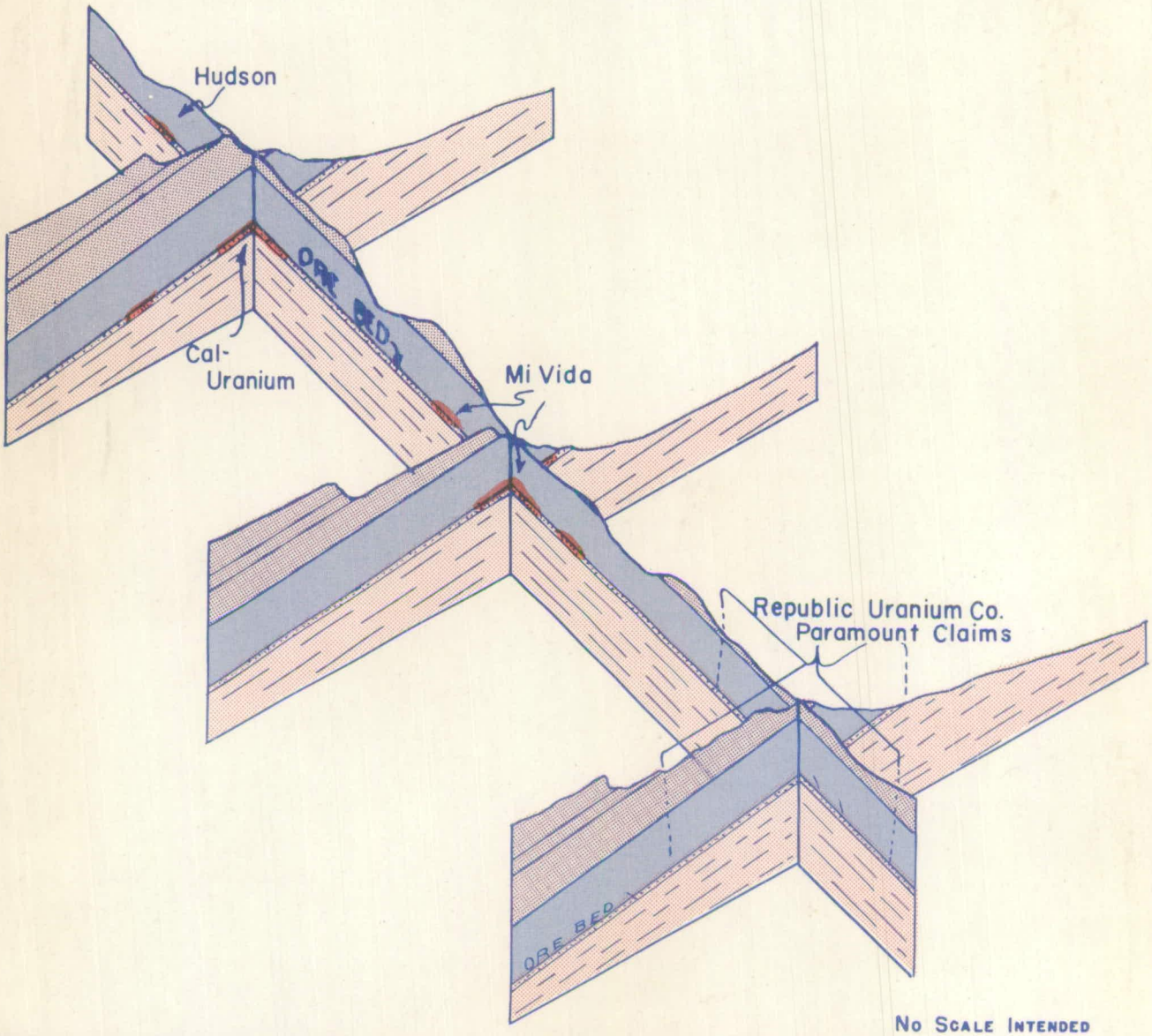
The ore bearing formation underlies the West Paramount group at a depth that is relatively shallow. The area could be easily explored by conventional drilling methods.

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



No Scale Intended

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.

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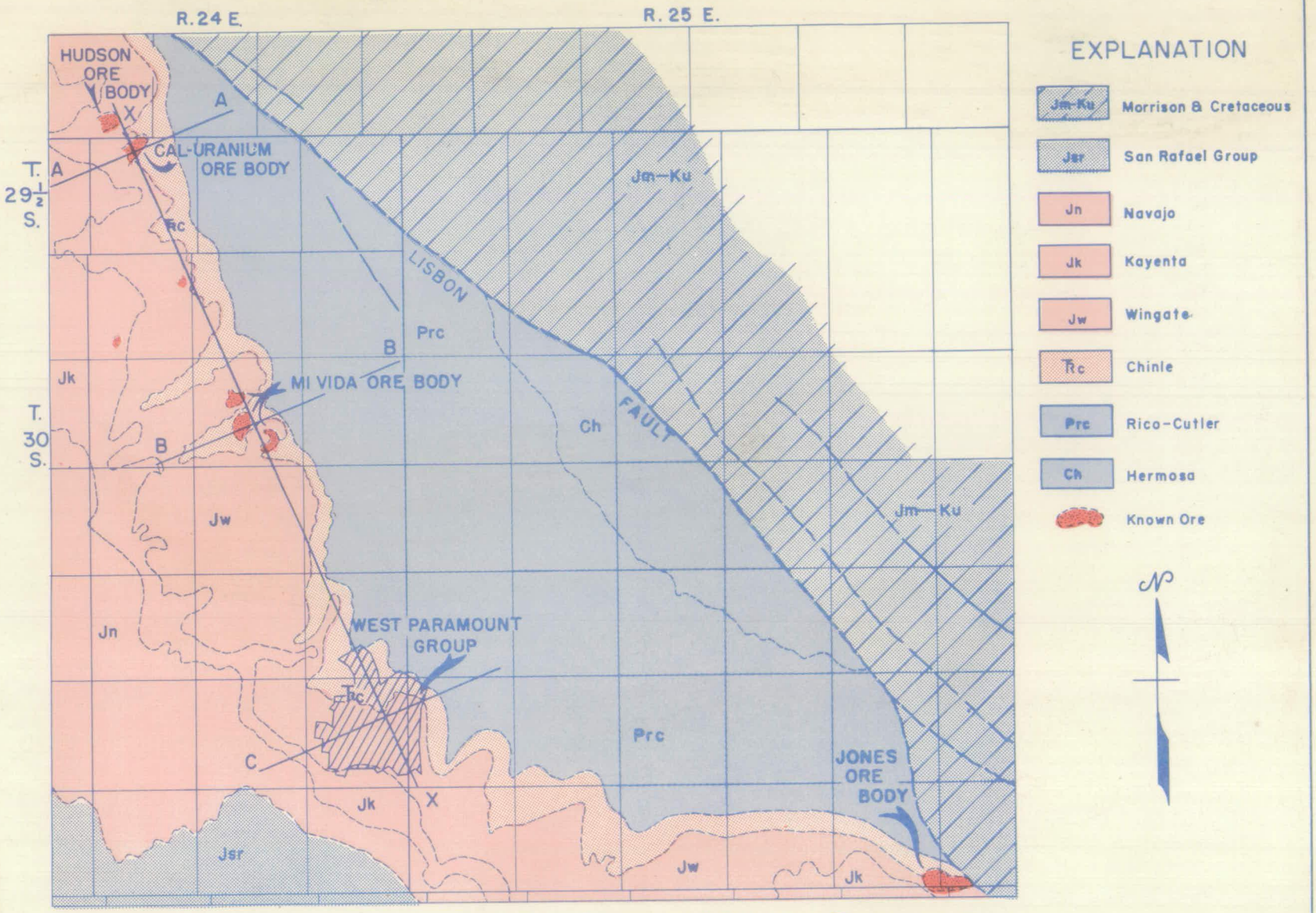
NCW:ns



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

SCALE

0 5 Miles

GEOPROFESSIONAL SERVICES INC.

CLG:ES-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~~by~~, as ~~Trs~~ 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.O. 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-

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

TO ACCOMP[illegible] PORT TO DMEA – REPUBLIC URANIUM COM[illegible]

0 1000 2000 3000 FT.

SCALE

AREA	AVERAGE HOLE DEPTH
1	300 FEET
2	700
3	600

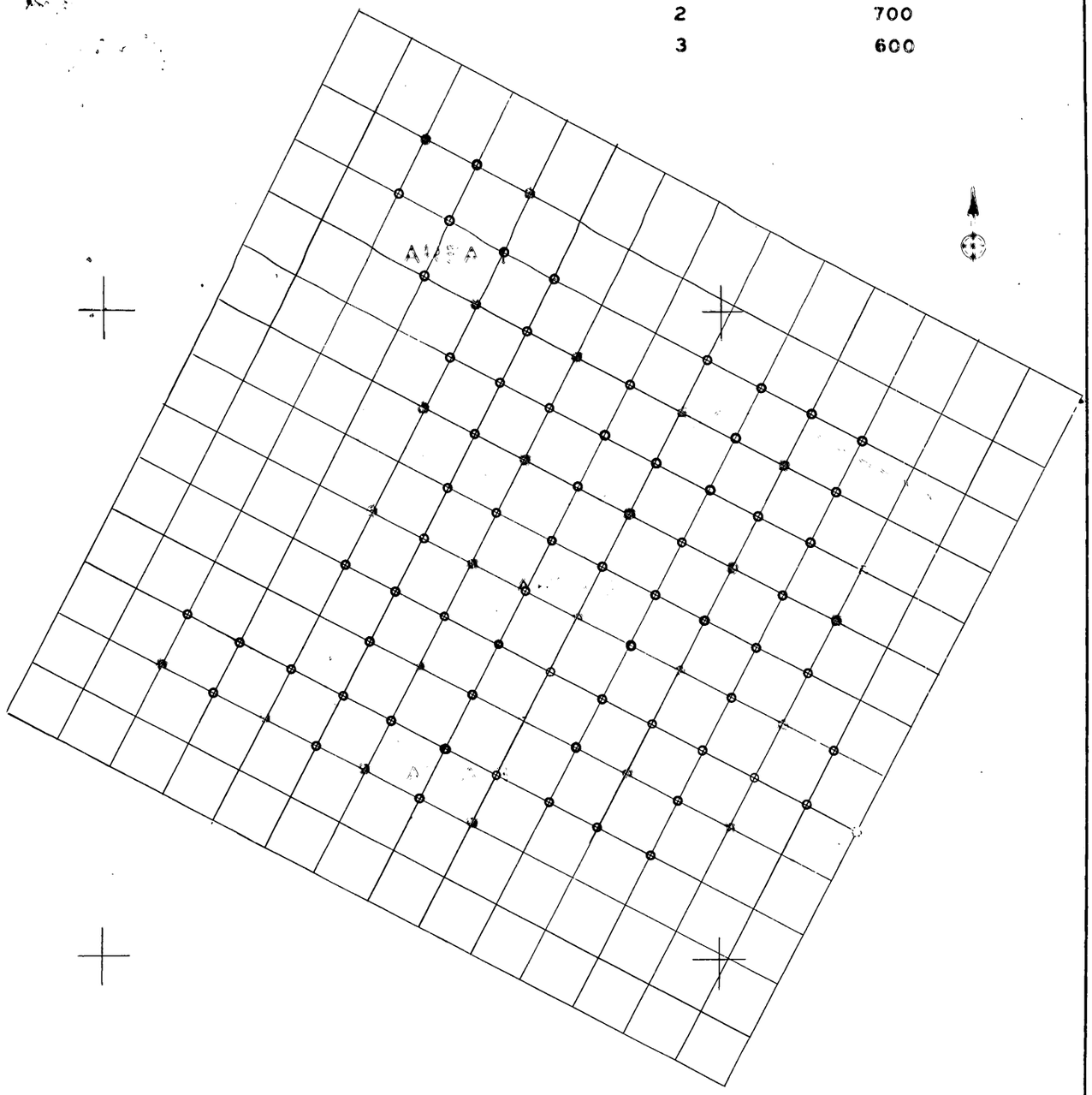


PLATE 1 – PROPOSED HOLES – 500' GRID SPACING

PROPOSED HOLES ON 1000' GRID SPACING – PHASE 1

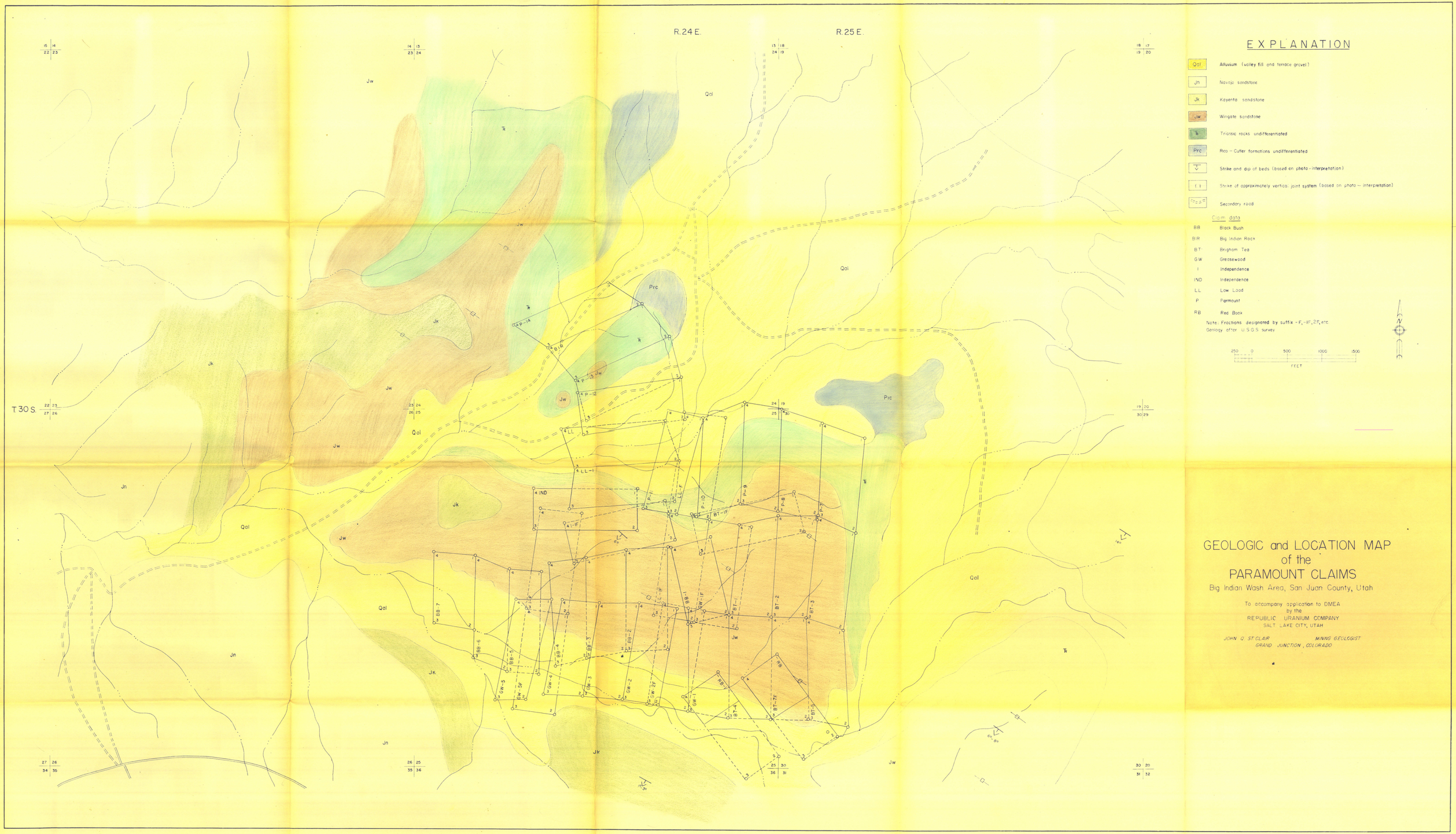
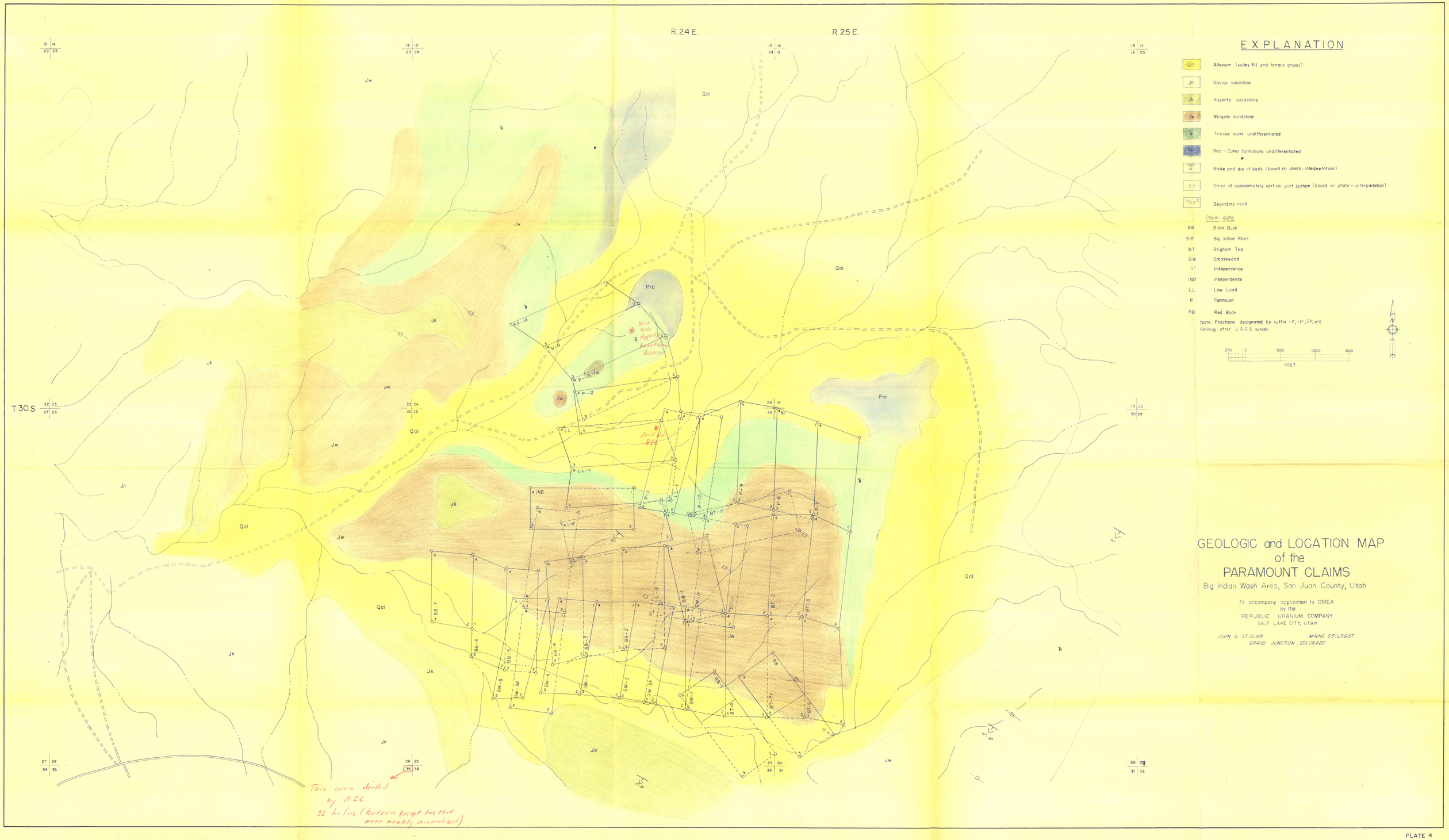

R.24 E.
R.25 E.
T 30 S.
Qal
Jw
Jk
Jn
Prc
TR
P-14
BIR
P-3
P-12
LL
LL-I
IND
I-F
P-1
P-10
P-9
P-8
P-7
LL-F
BT-IF
BB-7
BB-6
BB-5
BB-4
BB-3
BB-2
BB-1
GW-5
GW-5F
GW-4
GW-3
GW-2
GW-2F
GW-1
GW-F
BT-1
BT-2
BT-3
BT-5
BT-1F
RB
BT
EXPLANATION
Qal Alluvium (valley fill and terrace gravel)
Jn Navajo sandstone
Jk Kayenta sandstone
Jw Wingate sandstone
TR Triassic rocks undifferentiated
Prc Rico – Cutler formations undifferentiated
Strike and dip of beds (based on photo-interpretation)
Strike of approximately vertical joint system (based on photo – interpretation)
Secondary road
Claim data
BB Black Bush
BIR Big Indian Rock
BT Brigham Tea
GW Greasewood
I Independence
IND Independence
LL Low Load
P Paramount
RB Red Book
Note: Fractions designated by suffix -F, -1F, 2F, etc.
Geology after U.S.G.S. survey
250 0 500 1000 1500
FEET
N
GEOLOGIC and LOCATION MAP
of the
PARAMOUNT CLAIMS
Big Indian Wash Area, San Juan County, Utah
To accompany application to DMEA
by the
REPUBLIC URANIUM COMPANY
SALT LAKE CITY, UTAH
JOHN Q. ST. CLAIR MINING GEOLOGIST
GRAND JUNCTION, COLORADO

PLATE 4



EXPLANATION

Qal	Alluvium (valley fill and terrace gravel)
Jn	Navajo sandstone
Jk	Kayenta sandstone
Jw	Wingate sandstone
TR	Triassic rocks undifferentiated
Prc	Rico – Cutler formations undifferentiated
	Strike and dip of beds (based on photo-interpretation)
	Strike of approximately vertical joint system (based on photo-interpretation)
	Secondary road

Claim data

BB	Black Bush
BIR	Big Indian Rock
BT	Brigham Tea
GW	Greasewood
I	Independence
IND	Independence
LL	Low Load
P	Parmount
RB	Red Book

Note: Fractions designated by suffix - F, -1F, 2F, etc.
Geology after U.S.G.S. survey

250 0 500 1000 1500
FEET

N

GEOLOGIC and LOCATION MAP of the PARAMOUNT CLAIMS

Big Indian Wash Area, San Juan County, Utah

To accompany application to DMEA
by the
REPUBLIC URANIUM COMPANY
SALT LAKE CITY, UTAH

JOHN Q. ST. CLAIR MINING GEOLOGIST
GRAND JUNCTION, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3648

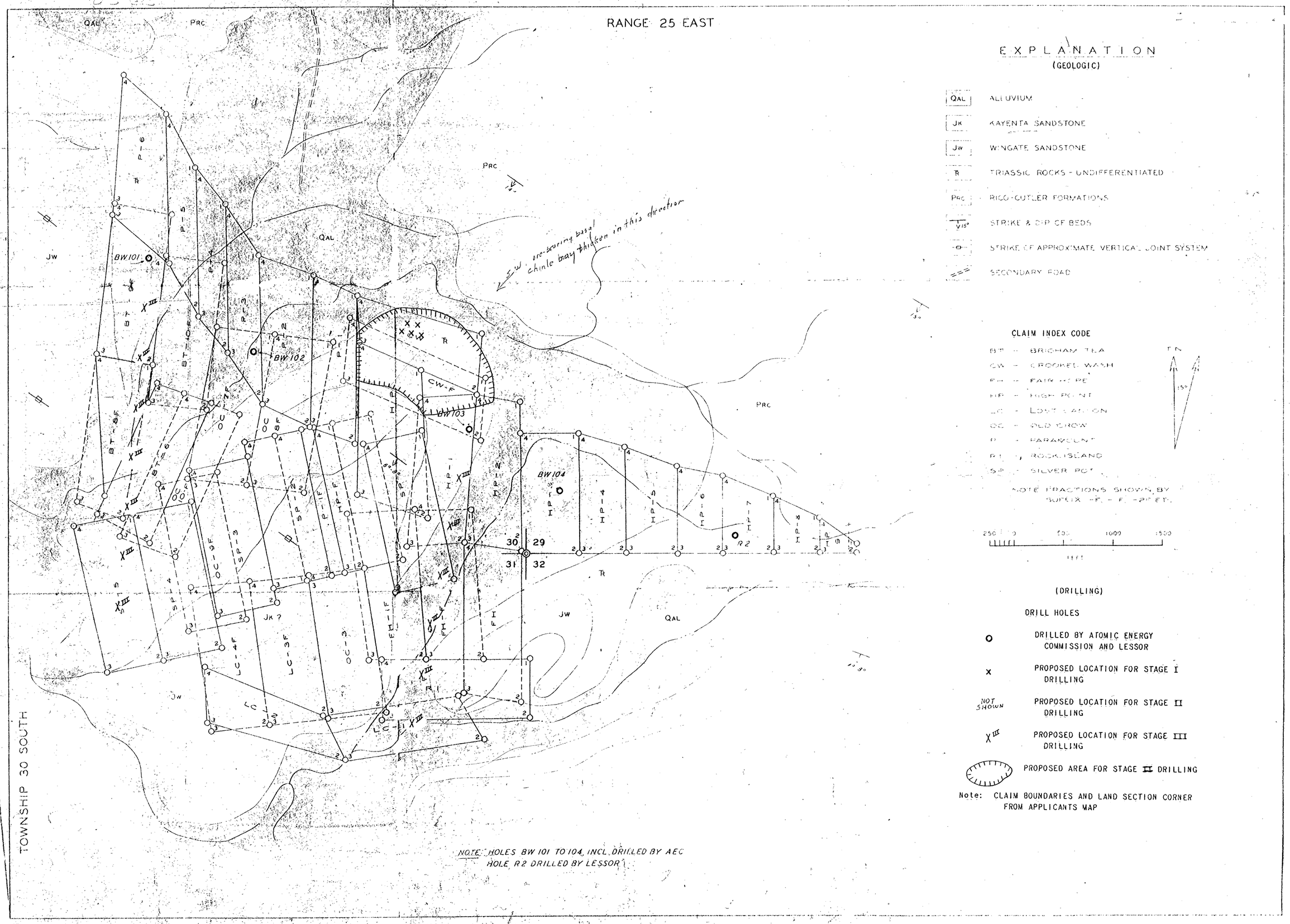


Figure 2. GEOLOGIC MAP SHOWING UTAH PREMIER CLAIMS, LISBON VALLEY DISTRICT, SAN JUAN COUNTY, UTAH