DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E NO. 792 | DMEA NO. 3620

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [x] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [x] Certification of Discovery
- [x] Closing Letter
- [x] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [x] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [x] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [x] Interim Field Team Reports
- [x] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [x] Settlement Sheets folder #2
- [x] Drill Logs

Additional Folders:

Left Side

Folders No. 2 : Reports
- [x] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [x] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.
- [x] Settlement Sheets

Folders No. 3 : Maps (Use pocket folder or envelope)

Folders No. _____ : Settlement Sheets

Folders No. _____ : Drill Logs

Folders No. _____ : Royalty material

FOLDER #3

17963

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E792, Docket DMEA-3620 (uranium), dated April 28, 1955, with

Uranium Prospectors Company, Ltd.
c/o Vitro Chemical Company
600 West 33rd South
Salt Lake City 15, Utah

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Dede, et al., Claims or the South Rowland Group located in Emery County, Utah, during the period June 17, 1959, through April 20, 1964.

A certification of discovery or development was issued on November 25, 1955, and, in accordance with Article 8 of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 10 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated September 7, 1955, indicated accepted costs under the exploration contract amounting to $27,926.85 with the Government's contribution on a 75 percent basis being $20,945.14.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review found the total sales subject to the Government's royalty for the period to be $21,760.07. Royalty payable to the Government at the rate specified in the contract is $1,088.00.

A prior Report of Royalty Review found no sales subject to the Government's royalty through June 16, 1959. Accordingly, as of April 20, 1964, the royalty account of this project was found to be:

Total Royalty Payable	$1,088.00
Total Royalty Paid	1,088.00
Balance of Royalty Due	$ -0-

E. D. Talbert

E. D. Talbert, OME Auditor

April 22, 1964

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

This contract provides that the Operator, as principal if the producer or as surety if not the producer, shall pay to the Government a percentage royalty on all minerals produced from the land thereunder. The land consists of 13 unpatented claims (Dede Nos. 1 - 8, Pee Wee Nos. 1 - 3, and Simon J. Nos. 1 and 2) in secs. 15 and 22, T. 21 S., R. 14 E., S.L.M., San Rafael Reef Area. At the time the contract was executed the Operator was in possession by virtue of a November 24, 1954, lease granted by David A. Rowland and Andrew G. McDermott. In consideration of the contract the lessors executed a Consent to Lien on April 9, 1955.

The exploration work under the contract was completed on July 19, 1955. There was no production during the exploration period and subsequent inspections of the property and inquiries by regional DMEA and OME representatives disclosed no production thereafter through January 1, 1960.

Sometime after completion of the exploration work the Vitro Uranium Company purchased the stock and obtained control of the Operator, but it was continued as a separate corporate entity until July 31, 1958. At that time it was dissolved by merger with the Vitro Uranium Company, now known as the Vitro Chemical Company, a subsidiary of the Vitro Corporation of America.

The Operator's lease of the property was terminated March 21, 1957, renewed on June 13, 1957, and canceled in early 1959. The owner leased parts of the property to Todd Engineering Company and Radium Hill Uranium, Inc., on April 30, 1959, and February 20, 1960, respectively, but terminated the leases in December 1960.

During 1960 and 1961 the Shattuck Denn Mining Corporation, a lessee of adjoining property, and Radium Hill Uranium, Inc., a sub-lessee, produced from the Jerry Boy No. 1 claim, which partially overlapped the Simon J. No. 1 claim, and shipped to Vitro's Salt Lake plant a total of 3,687 tons of ore valued at $54,429.98. On July 16, 1963, Vitro Chemical Company paid $22.37 as the computed royalty on 178 tons shipped by Radium Hill Uranium, Inc., on October 31, 1960.

After considerable correspondence with the several parties of interest, investigation by the OME regional representative, and discussions between Vitro and OME officials, the Vitro Corporation of

America was advised by letter dated April 8, 1964, that approximately 1,474 tons of ore valued at $21,760.07 represented a reasonable calculation of the production from the overlap area. On April 9, 1964, the Vitro Corporation accepted the calculation and on April 15, 1964, Vitro Chemical Company remitted the balance of $1,065.63 payable as royalty.

Sometime after termination of the Operator's lease, the Dade, et al., claims, which are under this exploration contract, were re-located as Vanura claims by the Four Corners Oil and Minerals Company, 1575 Sherman Street, Denver 3, Colorado. On April 5, 1964, during an audit of that Company's production from Jack Rabbit No. 1 claim (a part of the property under Contract Idm-E877, Docket DMEA-3767, also with Uranium Prospectors Company, Ltd.), a representative of this Division was advised that no ores had been produced from the re-located claims.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) Examinations of the property and inquiries indicate that no production, other than that from the overlap area mentioned above, has occurred since the date of the contract;

(2) The files indicate that a reasonable determination of the production from the overlap area has been made and proper royalty thereon paid; and

(3) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

JUN 19 1959
O.M.E

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, OME Field Team, Region III, Denver, Colorado pertaining to Contract Em-8792, Docket No. DMEA 3680, dated April 28, 1955, with

Uranium Prospectors Company, Ltd.
715 North 5th Street
Grand Junction, Colorado

for the purpose of determining the amount of royalties due the U. S. Government on the sales of Uranium, from property referred to as South Rowland Group, located in Emery County, Utah, during the period April 28, 1955 to June 16, 1959.

A Certification of Discovery or Development was issued on November 25, 1955, and accordingly royalty is payable on all production from the land described in Article 2 of the contract for a maximum period of 10 years from the date of the contract. A Report of Review in lieu of Final Cost Audit dated September 7, 1955, indicated accepted costs under the exploration contract amounting to $27,986.85, with the Government's contribution on a 75 percent basis being $20,945.14.

No royalty has been paid to the Government to date in connection with this contract.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(a) According to the Field Team's Semi-Annual Report of certified project for the period July 1, 1955 to December 31, 1955, operation ceased about July 31, 1955; no ore has been shipped since April 28, 1955, (The date of the exploration contract). Subsequent semi-annual reports of Field Team during the period January 1, 1956 to December 31, 1958, indicate the property inactive and no operations or ore shipments are anticipated in 1959.

(b) The administrative costs to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

June 16, 1959

Donald T. Finch
Donald T. Finch
OME Auditor

URANIUM PROSPECTORS COMPANY, LTD.

DOCKET NO. DMSA-3620 CONTRACT IDM-5792

Schedule of Disallowances

Disallowed by Audit:

Overcharge:	4 Feet Core Drilling @ $3.30 per ft.	$13.20
	Incidental Allowance, 4 Feet @ 75¢ per ft.	3.00
	TOTAL	$16.20

Independent contract invoiced Hole No. A5(a) at 491 feet, whereas Well Log showed the total depth of this hole to be 487 feet. The Executive Officer, DMSA Field Team, Region III, concurs with the Auditor in the disallowance of the excess footage at the core-drilling rate of $3.30 per foot.

RECEIVED
SEP 1 9 1955

Docket copy

Murphy
Ellis
Putin
Sawyer
"Appd. Sol. OH."
Chambers
Geehan
Nelson
Martin

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Uranium Prospectors Company, Ltd.
718 North 5th Street
Grand Junction, Colorado

Pursuant to the provisions of Exploration Project Contract No. Idm-E792, dated April 28, 1955, (Docket No. DMEA-3620), hereinafter called the "contract" between you and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien thereon and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

The nature of said discovery or development is described broadly or indicated as follows:

Exploratory drilling on the subject claims resulted in the discovery of tabular-shaped lenses of uranium ore in sandstone of the ~~upper~~ Salt Wash member of the Jurassic Morrison formation.

Dated: NOV 2 5 1955

FMMurphy/gla
11-16-55
cc to: Operator (original)
David A. Rowland) Signers of
Andrew G. McDermott) Owners' Consent to Lien
Contract Adm. & Audit Division
DMEA Field Team, Region III (2)
Finance Office
Docket
Rare and Misc. Metals Division
Admr.'s Reading File
Operating Committee
Robert W. Geehan, Rm. 3608
T. H. Kiilsgaard, Rm. 5224
F. E. Johnson
Mr. Murphy

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Administrator, Defense Minerals
Exploration Administration

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	[illegible]	120
9/7	Johnson	110
		220

Vitro Chemical Company
600 West 33rd South
Salt Lake City, Utah

SEP 7 1965

Re: DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Dede, et al., Claims
Emery County, Utah
Contract Idm-87792

Gentlemen:

By the terms of the subject Exploration Project Contract and the certification of discovery or development dated November 25, 1955, all minerals mined or produced from April 28, 1955, to April 28, 1965, were subject to the Government's royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require that certain records of the former Operator be kept and preserved for the periods indicated.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

MMerrithew/mm (9/7/65)
cc: David A. Rowland, 8105 West 16th Place, Denver 15, Colo.
Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Region III
Audit
120M
Budget & Finance, Room 5408, Int.

23263

Docket copy

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 12 1955

MF-200
(Revised June 1954)

Docket No. DMEA -3620

Commodity Uranium

Contract No. Idm-E 792

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 28th day of April, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Uranium Prospectors Company, Ltd., a Colorado corporation,

whose mailing address is 712 North 5th Street
Grand Junction, Colorado,
hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, and

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Utah, County of Emery, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] unrecorded in Book ____, page ____, official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: None

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

of the land (lessor, seller, optioner, etc.) are attached as follows: Owner's Consent to Lien signed by David A. Howland and Andrew G. McDermott, lessors.

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 8, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 8(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Uranium. The work to be performed is described in Exhibit "A." The Operator on or before June 1, 1955 shall commence the work, and on or before November 30, 1955 (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall either have completed the work or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A."

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Independent contracts.*—To the extent that the allowable costs are estimated in Exhibit "A" with express reference to performance by independent contractors on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations), the work may be so performed; but if the reference in Exhibit "A" to any such independent contract requires the Government's approval thereof, payments under such contract will not be allowable costs unless the Government gives its written approval of the contract. Any such independent contract shall refer to some specific and identifiable part of the work, and shall be subject to all of the pertinent terms and conditions of this exploration contract; but the Government shall not be considered a party thereto, and its rights under this contract, including the right to terminate its contributions, shall not be affected thereby. Regardless of the provisions of any such independent contract and regardless of the Government's approval thereof, the Government will participate in payments to the independent contractor only on account of work performed in accordance with the provisions of this exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable.

(c) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $32,742.50. The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $24,556.90: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work or not in excess of the amount of the Government's contribution to the cost of property which is or may become subject to disposal as provided in Article 9(c), whichever is greater. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 7(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. "Costs incurred" mean costs that have been paid or have become due and payable, or that in the opinion of the Government have become an obligation. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Estimated costs.*—(a) *Categories of costs.*—The allowable costs of the work to which the Government shall contribute are limited to those that are direct, reasonable, necessary, and that are estimated in Exhibit "A" by categories as specified in this article. If any category or subcategory is omitted from the estimate of costs, or if the word "none" is annexed to the listing thereof, costs under such category or subcategory are not allowable. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost, and any excess over the estimated total allowable cost of the work, shall not be allowable. Any excess over the estimate of any category, subcategory, or item, either as to requirement or related cost, not indicated as a maximum shall be allowable within the limit of the estimated total allowable cost of the work. To the extent that excesses over maximums other than the estimated total allowable cost of the work may be necessary for the performance of the work, the Operator shall incur such excesses for his own account without contribution by the Government; but except for any such necessary excesses in categories, subcategories, or items thereunder the Operator is not obligated to incur more than his agreed percentage of the estimated, total allowable cost of the work.

To the extent specified in this article or in Exhibit "A" the following categories, subcategories, and elements thereof are maximums; but if not so specified either here or in Exhibit "A" they are not maximums, and may be exceeded within the limit of the estimated total allowable cost of the work:

CATEGORY (1)—INDEPENDENT CONTRACTS.—Work to be performed under independent contracts (see Article 4(b)). The estimated total amount of this category and the estimated cost of each unit of work for performance under an independent contract are maximums.

CATEGORY (2)—PERSONAL SERVICES.

Subcategory (a)—Supervision.—All elements of this subcategory (number of supervisors, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)—Technical services.—All elements of this subcategory (number of technicians, periods of employment, rates of pay, and total) are maximums.

Subcategory (c)—Labor.

CATEGORY (3)—OPERATING MATERIALS AND SUPPLIES.—Includes such items as drill bits and steel, explosives, fuel, pipe, power, small tools costing less than $50 each, timber, track.

CATEGORY (4)—OPERATING EQUIPMENT.

Subcategory (a)—Rental.—The number of each object to be rented [6 mine cars, 1 truck], the rate of rental [$100 per month, $5 per hour], and the total of this subcategory are maximums.

Subcategory (b)—Purchases.—The estimated total of this subcategory is a maximum.

Subcategory (c)—Depreciation.—All elements of this subcategory (time periods, rate of depreciation, and subcategory total) are maximums.

CATEGORY (5)—INITIAL REHABILITATION AND REPAIRS.—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

Subcategory (a)—Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).—The estimated total of this subcategory is a maximum.

Subcategory (b)—Initial rehabilitation and repairs of operating equipment.—The estimated total of this subcategory is a maximum.

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article 9.

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value therof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—
To the extent that costs are set forth in Exhibit "A" as "Fixed Unit Costs" they are in lieu of the actual costs that otherwise would be allowable costs of the project under Article 6 of the contract.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By O. Mittlesdorf
Administrator, Defense Minerals
Exploration Administration

URANIUM PROSPECTORS COMPANY, LTD.
(Operator)

By D. C. Deringer
Vice President

Robin Hotlund
Murphy
Ellis
Chenner

I, Ben H. Parker, certify that I am the secretary of the corporation named as Operator herein; that D. C. Deringer who signed this contract on behalf of the Operator, was then vice president of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Ben H. Parker

Selfridges

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 12 1955

EXPLORATION PROJECT CONTRACT
URANIUM PROSPECTORS COMPANY, LTD.
DOCKET NO. DMEA-3620

ANNEX I

The land referred to in Article 2 of the contract form consists of thirteen (13) unpatented lode mining claims, which are recorded in the office of the County Recorder, Emery County, Utah, as follows:

Claim	Book No.	Page No.
Dede No. 1	J-49	359
Dede No. 2	"	360
Dede No. 3	"	361
Dede No. 4	"	362
Dede No. 5	"	363
Dede No. 6	"	364
Dede No. 7	"	365
Dede No. 8	"	366
Pee Wee No. 1	"	367
Pee Wee No. 2	J-28	377
Pee Wee No. 3	J-60	81
Simon J. No. 1	J-49	369
Simon J. No. 2	"	370

These claims are in sections 15 and 22, T. 21 S., R. 14 E., S.L.M., and are shown on the map entitled "Figure 2. Map Showing Location of Drill Holes on or near Dede, Pee Wee and Simon J. Groups of Claims . . .," attached hereto and made a part hereof.

The claims were leased by David A. Rowland and Andrew G. McDermott to the Operator in an instrument dated November 24, 1954, for a period of 10 years, renewable.

EXPLORATION PROJECT CONTRACT
URANIUM PROSPECTORS COMPANY, LTD.
DOCKET NO. DMEA-3620

EXHIBIT "A"

Description of the Work

The object of this project is the discovery of uranium ore in a sedimentary rock formation of Jurassic age, known locally as the Salt Wash member of the Morrison formation. To penetrate this member will require drill holes ranging from 270 to 500 feet in depth.

The work shall be performed in two successive stages. The Operator shall perform all the work under Stage I and shall perform so much of Stage II as is approved in advance in writing by the Government based upon the results of the completed work under Stage I.

Stage I

Stage I consists of bulldozing water reservoirs for drilling; constructing approximately 14,000 feet of access roads to and leveling, with bulldozer, each of seventeen (17) drill hole locations approximately indicated on the attached map Figure 2; and drilling one exploratory hole at each of the 17 sites. The approximate locations of the drill holes are indicated by numbers A-1 through A-17; however, the holes need not be drilled in this numerical sequence.

Each hole in Stage I shall be started with a noncore bit; however, starting at the contact of the Brushy Basin and Salt Wash members of the Morrison formation, the remainder of the hole shall be cored. All holes shall penetrate a minimum of 70 feet into the Salt Wash member, with the exception of holes A-1 and A-15 which shall be cored through the total thickness of the Salt Wash member, estimated to be 220 feet thick.

Approximately 6330 feet of noncore and 1490 feet of core drilling shall be completed under Stage I of this contract.

Stage II

Stage II consists of preparing an aggregate of approximately 1000 feet of access roads to and leveling, with bulldozer, 8 drill hole locations; and drilling not in excess of eight (8) noncore offset holes around any favorably mineralized hole drilled during Stage I.

Not more than an aggregate of 3620 feet of non-core hole shall be drilled under Stage II. Each hole shall be drilled to penetrate a minimum of 70 feet into the Salt Wash member of the Morrison formation.

General Provisions

Three contract drill rigs will be employed during the period of this contract.

A supervising engineer and a geologist shall be employed full time during the project work. Their duties shall include a daily examination and logging of the drill core, hole probing, determination of drilling depths, necessary surveying and mapping of access roads and drill hole locations, sampling, and all other duties necessary to the satisfactory technical progress of the work described in this Exhibit "A".

The Government shall not contribute to the cost of any hole which does not bottom with an AX size minimum core, nor to the cost of any hole which cannot be probed with radiometric logging equipment.

No offset hole shall be drilled closer than 100 feet to any other hole.

Drill hole cuttings and cores shall be stored in a suitable location for Government inspection and disposal. The Government and the Operator shall agree on the manner and time the cuttings and core shall be split. One-half of the core and the cuttings shall be furnished by the Operator for Government use.

The Operator's monthly report shall contain certified drill and geologic logs, and certified copies of analytical returns.

and The supervision, the extent and method of sampling/logging holes, the manner of storing and splitting drill cuttings and core, the laboratory making the chemical analyses, the location of the access roads and drill sites, and the drilling method used, are all subject to Government approval.

Estimated Costs of the Project

Actual Costs

Stage I

Category (1) Independent Contracts

70 hours of bulldozing access roads @ $13/hr.	$ 910.00	
Preparing 17 drill sites with bulldozer--10 hours @ $13/hr.	130.00	
Construction of water reservoirs with bulldozer--5 hours @ $13/hr.	65.00	
6330 feet of noncore drilling @ $1.75/ft.	11,077.50	
1490 feet of core drilling @ $3.50/ft.	5,215.00	
		$17,397.50

Stage II

Category (1) Independent Contracts

Bulldozing access roads to drill sites--5 hours @ $13/hr.	65.00	
Level 8 drill sites with bulldozer--5 hours @ $13/hr.	65.00	
3620 feet of noncore drilling @ $1.75/ft.	6,335.00	
		$ 6,465.00

The Government will contribute to the requirements set forth below on the basis of the "Fixed Unit Costs" specified therefor, as these costs accrue, in lieu of actual costs. These costs include all costs of the project whatsoever except those actual costs of bulldozing and drilling scheduled above under the category "Independent Contracts." No other categories of actual costs in Article 6 are allowable costs under this contract.

Fixed Unit Costs

Stage I

50 chemical analyses for U_3O_8 and $CaCO_3$ @ $5/ea.	$ 250.00	
Incidental allowance 1/ for each foot of drilling completed--7820 feet @ $0.75/ft.	5,865.00	
		$ 6,115.00

Stage II

10 chemical analyses for U_3O_8 and $CaCO_3$ @ $5/ea.	50.00	
Incidental allowance 1/ for each foot of drilling completed--3620 feet @ $0.75/ft.	2,715.00	
		2,765.00

S U M M A R Y

Estimated Total Costs, Stage I	$23,512.50	
Estimated Total Costs Stage II	9,230.00	
Estimated Total Cost of Project		$32,742.50
Government Participation @ 75%		$24,556.90

1/ The "incidental allowance" includes all costs of the project whatsoever that are not included in the estimates for bulldozing and drilling, and the fixed unit cost for analyses, and is in lieu of Categories (2) through (7) of actual costs under Article 6(a) of the contract. It includes such items as supervision, radiometric and geological work, engineering, equipment, materials and supplies, transportation, etc.

DMEA
Date Rec'd.

MF-203
Revised March 24, 1955

APR 11 1955

BUREAU OF MINES
Denver, Colorado

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator [redacted]
Docket No. DMEA- [redacted]
Contract No. Idm-E
Contract Date [redacted]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 12 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 15 1955

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of [redacted], State of [redacted], described as follows:1/

[redacted]

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 9th day of April, 1955.

David A. Rowland [Seal]

Andrew L. McDermott [Seal]

By: David A. Rowland [Seal]
atty-in-fact

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

ANNEX I

Claim Name	Identification, Marking and Posting Date:	Notice of Lease Application Recorded in Book:	at Page:
Dede No. 1	5-15-54	J-20	331
Dede No. 2	5-15-54	J-20	332
Dede No. 3	5-15-54	J-20	333
Dede No. 4	5-15-54	J-20	334
Dede No. 5	5-15-54	J-20	335
Dede No. 6	5-15-54	J-20	336
Dede No. 7	5-15-54	J-20	337
Dede No. 8	5-15-54	J-20	338
Pee Wee No. 1	5-15-54	J-20	341
Pee Wee No. 2	7-12-54	J-28	377
Pee Wee No. 3	10-15-54	~~J-40~~	~~21~~
Simon J. No. 1	5-15-54	J-20	339
Simon J. No. 2	5-15-54	J-20	340

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3620

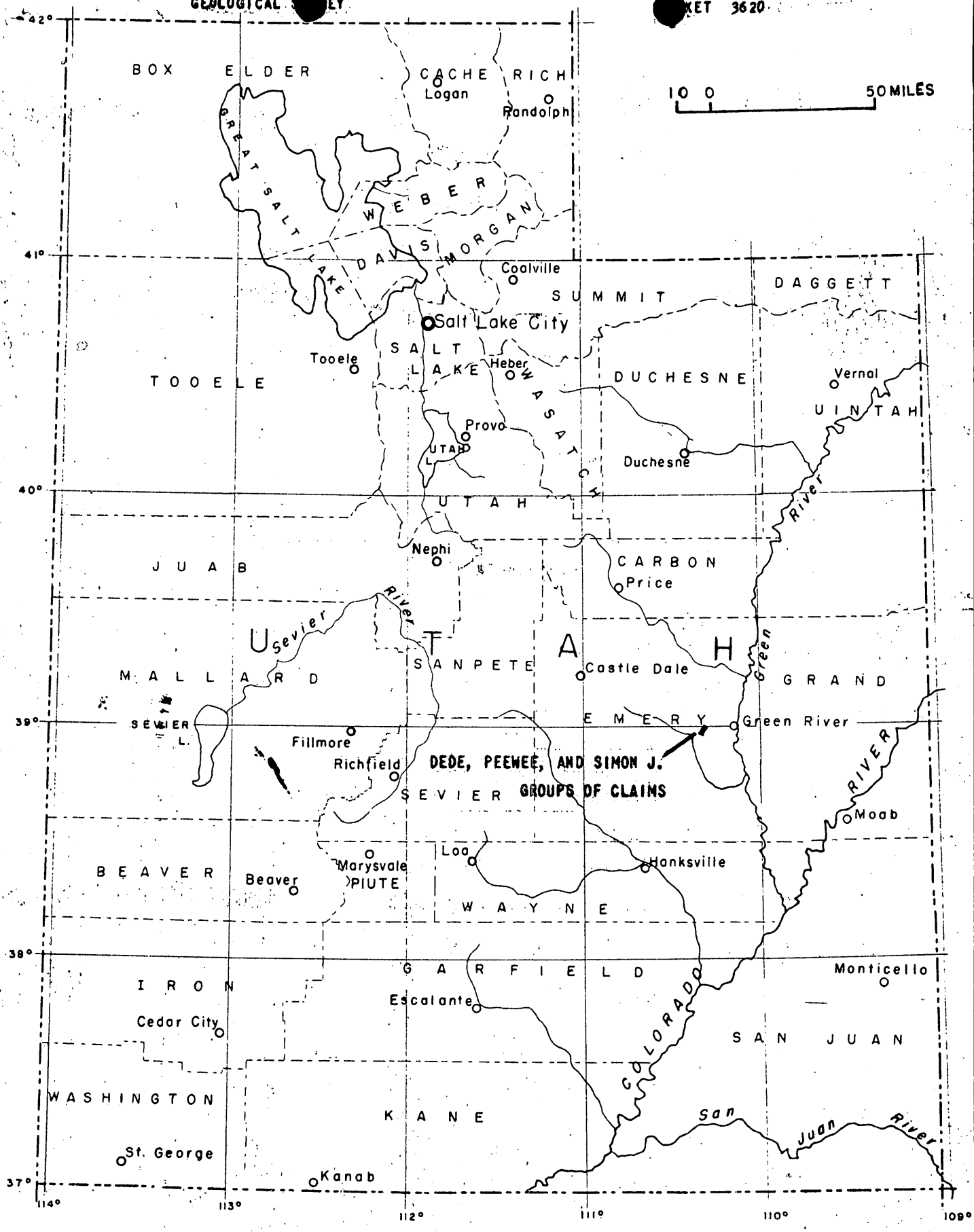

Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF DEDE, PEEWEE, AND SIMON J. GROUPS OF CLAIMS, URANIUM PROSPECTORS CO. LTD. EMERY COUNTY, UTAH.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3620

EXPLANATION

Jmsw / Jmbb — FORMATION CONTACT BETWEEN MORRISON SALTWASH AND BRUSHY BASIN

6° — STRIKE AND DIP OF BEDS

ADIT

DRILL HOLES, (ATOMIC ENERGY COMMISION HOLES HAVE PREFIX X, PRIVATE COMPANY HOLES HAVE PREFIX RR)

○ BARREN

MINERALIZED

● ORE-BEARING, 1 FOOT OR MORE OF 0.10% U_3O_8 OR BETTER

X LOCATION OF PROPOSED DRILL HOLE

NOTE: GEOLOGY, CLAIM BOUNDARIES, LAND SECTION CORNER, AND DRILL HOLE LOCATIONS FROM OWNERS MAP

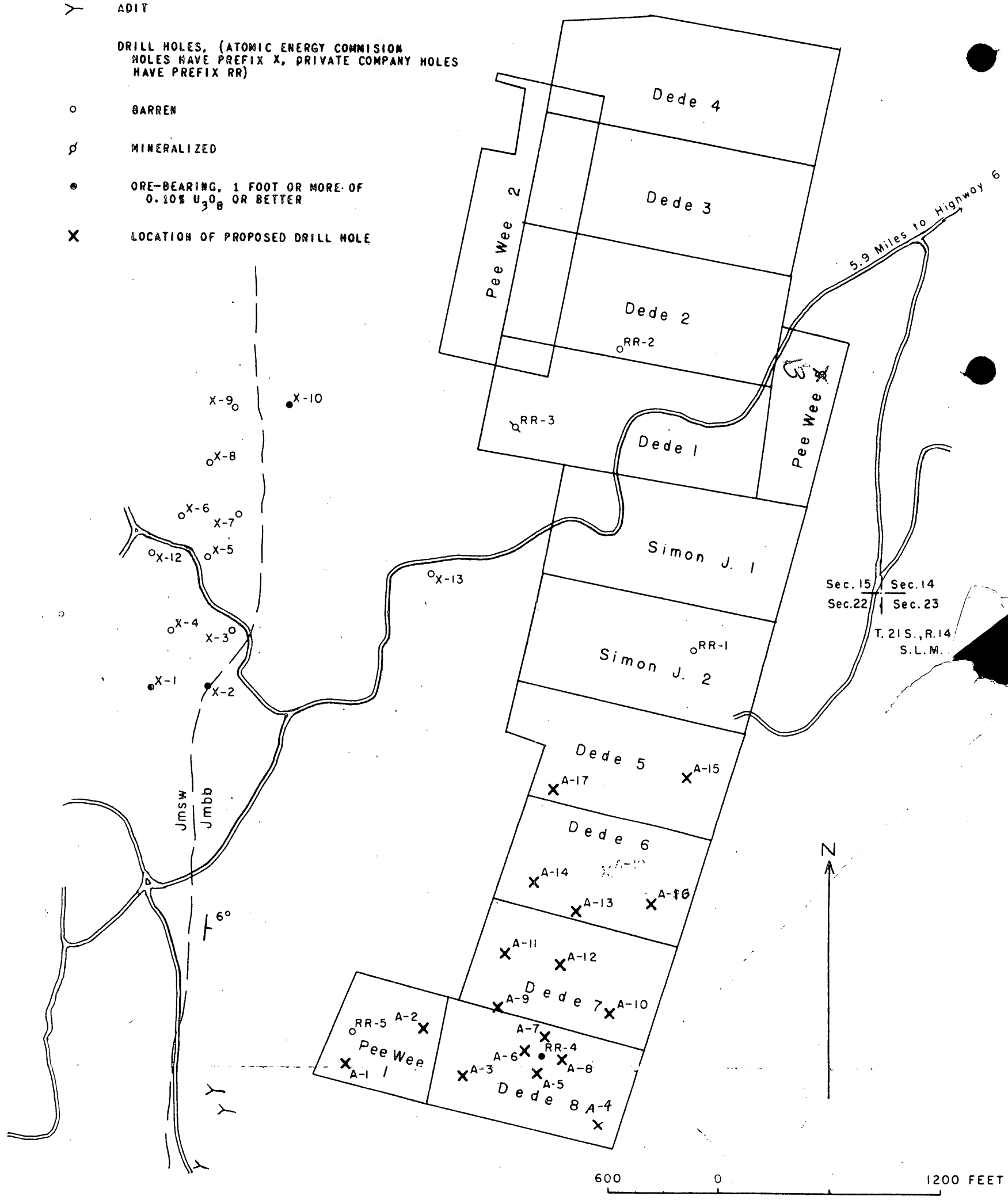

Figure 2. MAP SHOWING LOCATION OF DRILL HOLES ON OR NEAR DEDE, PEE WEE AND SIMON J GROUPS OF CLAIMS AND PROPOSED DRILL HOLES, URANIUM PROSPECTORS, COMPANY LTD.
EMERY COUNTY, UTAH

OME
DEPARTMENT OF THE INTERIOR
JUL 13 1959
REGION III
DENVER, COLORADO

Uranium Prospectors Co. Ltd.
Subsidiary of Vitro Corporation of America
Box 67 - 400 West 33rd So. - Salt Lake City 15, Utah

June 10, 1957

See Uranium Prospector's letter - June 22, 1956.

Mr. David A. Hayland
703 10th Avenue
San Francisco, California

Dear Mr. Hayland:

This letter will confirm our agreement to lease from you, as Owner, those certain unpatented mining claims situated in Emery County, Utah, and described as follows:

Dude Nos. 1 through 8 inclusive
Fox Nos. 1 and 2
Simon J. Nos. 1 and 2

Please refer to the former lease agreement between Uranium Prospectors Co., Ltd., a Colorado corporation, as Lessee and yourself as Lessor, dated November 24, 1954, and covering all of the said claims and one additional claim.

The term of this lease will be for one year from the date hereof and may be renewed by Lessee, upon at least sixty (60) days written notice, for successive terms of one year each up to a total of ten (10) years.

Lessee is to be granted immediate and exclusive possession and control of the said claims from the date you accept the terms of this proposal as provided below.

Lessee agrees to pay you fifteen per cent (15) of the gross proceeds received by it from the sale of ores shipped from the said properties during the lease term, said proceeds to be based on A.E.C. Circular 5, As Amended, or if no applicable A.E.C. schedule or circular is in effect, then on the best price obtainable for said ores. The gross proceeds shall include all incentive and other bonuses and premiums paid Lessee for or upon the sale of said ores, but shall not include freight or development allowance.

Lessee will subordinate any royalty payments due under this lease for all payments due and paid by Lessee for the D.M.E.A. loan now outstanding, up to an amount of five per cent (5%) of the said gross proceeds, being one-third of the said royalties payable to Lessee.

Lessee agrees to save Lessee harmless from any loss, damages or liabilities suffered by it as a result of any assertion of presently outstanding right, title or interest of Andrew G. McDermott, or any other person, in or to the said claims, or proceeds therefrom. Lessee agrees that Lessee may withhold from said royalties payable to Lessee an amount equal to any such claim made to the proceeds of the ores sold by Lessee, and presented to Lessee, until said claim is settled or removed to the satisfaction of Lessee.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUL 17 1959
DATE | INITIALS

Lessee agrees to undertake to do the assessment work prior to July 1, 1957, for the assessment year ending that date, and to use reasonable efforts on that account; but Lessee shall suffer or incur no liability if such work for that year should prove inadequate to constitute compliance with the annual labor requirements.

Lessee will perform the annual assessment work for each year this lease is in effect, beginning July 1, 1957, except as to such claims it surrenders as herein provided.

Lessee will save Lessor harmless from any claim or liability resulting from Lessee's operations of the properties.

Lessee may cancel this lease as to any one or more of the said mining claims upon at least thirty (30) days written notice to Lessor by certified or registered mail except that no such termination may be made less than sixty (60) days prior to the end of any assessment year. Upon any termination of this lease, Lessee shall have a reasonable time, up to ninety (90) days, to remove its equipment, machinery, supplies and other property from the premises, provided that it shall not remove mine timbering or supports.

For all purposes of this lease, Lessor's address is:

703 15th Avenue
San Francisco, California

This lease may be assigned by either party and shall be binding upon and inure to the benefit of their heirs, successors and assigns. Lessee may perform this lease by contracting and by sublease.

Will you kindly indicate your acceptance of these terms and conditions by signing two copies of this letter in the space provided below and return them to this office.

Yours very truly,

URANIUM PROSPECTORS CO., LTD.

BY _____
Lessee

The above lease is hereby accepted and agreed to in full this 13th day of June, 1957.

WITNESS:

_____

_____
David A. Rowland
Lessor

LEASE AGREEMENT

THIS AGREEMENT, Made this 30th day of April, 1959, by and between David Rowland, 8105 West 16th Place, Denver, Colorado, hereinafter known and referred to as the LESSOR, and Todd Engineering Company, 3701 Estes Street, Wheatridge, Colorado, hereinafter referred to and known as the LESSEE, WITNESSETH:

That for and in consideration of the sum of Ten Dollars ($10,00) in hand paid LESSOR by LESSEE, receipt of which is hereby confessed and acknowledged, and the further consideration of the mutual promises and covenants hereinafter contained, the parties hereto agree as follows:

1. LESSOR hereby lets, leases and demises unto the LESSEE the following described mining properties for the period of ten (10) years from the date hereof unless sooner forfeited or terminated pursuant to any covenants or conditions herein contained:

S½ Dede #5	Mining Claims
Dede #6	Mining Claims
Dede #7	Mining Claims
Dede #8	Mining Claims
Peewee #1	Mining Claims

all located in Emery County, State of Utah.

2. It is further understood and agreed that unless otherwise accomplished, LESSEE agrees to complete this year's assessment work on said claims by June 1, 1959 or forfeit the rights under this lease without further notification, and in connection therewith, LESSEE shall provide LESSOR with proof of the accomplishment of such assessment work on or before the said date of June 1, 1959.

3. It is further understood and agreed that LESSEE, from and after June 1, 1959, will complete annual assessment

Leg III memo 6/2/59

work prior to March 1st of each and every year and will furnish LESSOR affidavits of performance of labor by said date. LESSEE may relinquish any of the above recited claims contained in this lease by advising LESSOR of his desire so to do, in writing, addressed to LESSORS last known address and such advice be mailed prior to March 1st of any year.

4. It is further understood and agreed that LESSEE will commence production on one or more of the above recited claims on or before November 1, 1959, and will so conduct its operation that there will be a minimum production of not less than 125 tons per month; provided, however, that LESSEE may make a monthly payment of $500.00 to be paid on or before the first day of each and every month commencing with November 1, 1959, such $500.00 payment to be in lieu of the minimum tonage requirement of 125 tons per month, provided that such minimum payments may be later recovered from royalties due the LESSOR from production by LESSEE from the above mentioned claims. The said sum of $500.00 being arrived at on the arbitrary computation basis of a royalty of $2.00 per ton and any recovery of said monies as specified herein shall be recovered on the basis of $2.00 per ton or production sold.

5. It is further understood and agreed that LESSEE shall not in any way, manner, shape or form sub-lease any of the above claims without the approval, in writing, of the LESSOR and that any occupancy by others than the LESSEE shall be considered as sub-leasing.

6. It is further understood that LESSEE shall furnish to LESSOR, addressed to his last known address, an annual report of progress by March 1st of each year and included in the report shall be provided maps and drill logs for the future prospects for the property.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 5 1959

DATE	INITIALS	CODE

7. It is further understood and agreed that LESSOR is the owner of other mining claims adjoining those set forth hereinabove and that such claims are now under lease to other individuals and organizations and that in the event LESSOR obtains a release from such other individuals or organizations of such adjoining mining claims that LESSEE shall have an option for fifteen (15) days from the time LESSOR notifies LESSEE that such claims have been released in which to request LESSOR to place such other claims within the terms of this agreement, and in the event LESSEE is notified of such relinquishment and does request LESSOR to put such other mining claims under this agreement within such fifteen (15) day period, that such claims shall be placed within the purview of the terms of this agreement by a letter of committment addressed from the LESSOR to the LESSEE so stating.

8. LESSEE further agrees:

To enter upon the leased premises and to explore, work and mine the same in good and miner-like fashion to such extent as LESSEE in its judgment deems advisable, with due regard to the reasonable development and preservation thereof, except when prevented by weather, Acts of God, unavoidable casualty, or by law or the rules and regulations of any governmental regulatory body;

To allow LESSOR or his representatives to enter upon the premises at any reasonable time for the purpose of inspection, survey or taking samples therefrom;

To comply with all legal requirements of the State and Federal Mining Inspectors;

To pay for the account of the parties hereto all required severance or production taxes and any tax measured by production and to pay all ad valorem and personal property taxes validly assessed against the premises and the equipment thereon.

To assume all responsibility in case of accident or injury to LESSEE'S employees or third persons occuring in and about the leased premises, and to carry at all times Workman's Compensation Insurance as required by the State of Utah;

To promptly pay all bills and expenses incurred by it for labor and material furnished or

used on the leased premises so as to prevent the filing of liens of miners, mechanics or materialmen against said premises;

To comply, at all times during the term of this agreement, with the provisions of the laws now existing, or which may be hereafter enacted, relative to the performing of annual labor and improvements upon the leased premises and agrees to keep and file all necessary affidavits of assessment work so done by it.

9. (a) It is mutually understood and agreed that, in the event of a violation of any covenant and condition herein contained to be kept and performed by LESSEE, except the obligation to make minimum royalty payments as required herein, and the obligation to have the annual assessment work performed and completed by March 1st of each year, the LESSOR may, at his election, notify LESSEE of such default, specifying the default in substantial detail, and in the event LESSEE does not, within sixty (60) days after its receipt of said notice, commence work to cure such default and continue such work with reasonable diligence, then at the end of such sixty (60) day period this lease shall terminate and LESSOR or his representatives may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force and with or without process of law and notice of termination shall be addressed to LESSEE, at its address set forth above, by United States registered mail, and shall be deemed given on the date of the mailing thereof.

(b) LESSEE shall have the right, at any time or times hereafter, to terminate this agreement upon giving to the LESSOR thirty (30) days' notice in writing, of its intention so to do, which notice shall be addressed to the LESSOR at his address set forth above, by United States registered mail and shall be deemed given on the date of the mailing thereof.

(c) LESSEE shall have the right, for a period of ninety (90) days after any termination of this agreement by cancellation, surrender or otherwise, to enter upon the leased premises and remove its machinery, equipment and personal property therefrom.

(d) It is expressly agreed that any such termination shall not relieve LESSEE of its obligation to pay LESSOR the installments of advance royalty required to be paid in the event the minimum tonnage of 125 tons has not been produced as referred to herein, or of its obligation to pay LESSOR any accrued royalty to which he is entitled under the terms and provisions of this agreement, but shall specifically relieve LESSEE of the obligation to pay the minimum royalty specified herein and of any and all other duties and obligations whatsoever. In the event of such termination LESSOR shall keep and retain all sums theretofore paid to him or to which he continues entitled as full liquidated damages and rent.

10. It is specifically understood and agreed that LESSEE shall pay to LESSOR a royalty on the gross value of all ores or things of value produced from said premises of seven and one-half (7½%) per cent until the sum of $120,000.00 gross value has been produced from said premises and thereafter the LESSEE shall pay unto the LESSOR a royalty of twenty-four (24%) per cent on the gross value of all ores or any other things of value produced from said premises.

11. It is further understood and agreed that the LESSEE shall advise the buyer of the ores, or things of value produced from said premises, of the royalties due LESSOR and shall direct such buyer to pay said royalties direct to the LESSOR at his last known address. The royalties referred to herein shall apply to the gross

value of the ores or things of value produced and any other bonuses or benefits accruing thereto.

12. It is further understood and agreed that the LESSEE accepts said premises with the knowledge and information that such premises are owned by the LESSOR as unpatented claims and said LESSEE, in accepting said premises, accepts any frailties of LESSOR'S title.

13. The terms and provisions of this agreement shall be binding upon and inure to the benefit of the heirs, legal representatives and successors of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals on the day and year first above written.

David G. Rowland
David Rowland
LESSOR

TODD ENGINEERING COMPANY, Trade Name
By [illegible]
LESSEE

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 5 1959

DATE	INITIALS	CODE

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

224 New Customhouse
Denver 2, Colorado

December 23, 1954

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMEA Form 3a and MF-103 and supporting data pertaining to the following applications for Government assistance in exploration work:

Uranium Prospectors Co., Ltd. 718 North 5th Street Grand Junction, Colorado	Uranium
Colamer Corporation Fidd & Ross Building Grants, New Mexico	Uranium

W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. 3620
Metal or Mineral Uranium
Date Received
Estimated Cost $32,529
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: Uranium Prospectors Company, Ltd.
718 North 5th Street
Grand Junction, Colorado
A Colorado Corporation - Incorporated February, 1954

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
See attached sheet

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

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See attached copy of lease

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See 3(a) or attached copy of lease

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See 4(a)

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

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

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

16—66551-1

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

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

(*c*) The work will start within 15 days and be completed within 4 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 materidls and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

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

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated December 16, 1954

Uranium Prospectors Company, Ltd.
(Applicant)

By [signature]
Vice President

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

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

1 - (a) Uranium Prospectors Co., Ltd.
718 North Fifth Street
Grand Junction, Colorado

(b) A Colorado Corporation - Incorporated Feb., 1954.

(c) Sidney H. Robinson, President, Suite 1613
44 King Street West, Toronto 1, Ontario, Canada.
D. C. Deringer, Vice President, 718 North Fifth Street, Grand Junction, Colorado
Dr. Ben H. Parker, Secretary, Box 508, Golden, Colo.

(d) Not applicable.

2 - Complied with.

3 - (a) Applicant has leased the property immediately south of the claims, and the property on the east which extends from the southeast corner to approximately 1800 feet north (see appended claim map). Exploration on the claims included in the application will not materially benefit the adjoining claims controlled by the applicant.

Name	Identification, Marking and Posting Data	Notice of Lease Application Recorded in Book	at Page
Dede No. 1	5-15-54	J-20	331
Dede No. 2	5-15-54	J-20	332
Dede No. 3	5-15-54	J-20	333
Dede No. 4	5-15-54	J-20	334
Dede No. 5	5-15-54	J-20	335
Dede No. 6	5-15-54	J-20	336
Dede No. 7	5-15-54	J-20	337
Dede No. 8	5-15-54	J-20	338
Pee Wee No. 1	5-15-54	J-20	341
Pee Wee No. 2	7-12-54	J-28	377
Pee Wee No. 3	10-15-54	----	---
Simon J. No. 1	5-15-54	J-20	339
Simon J. No. 2	5-15-54	J-20	340

(references to Emery County, Utah records)

(b) Dede No's. 1-8, Simon J. 1 and Simon J. 2 and Pee Wee No's. 1-3; owned and leased to applicant by David A. Rowland.

(c) Lessee.

(d) See appended copy of lease.

3 - (e) Not applicable.

(f) See 3(a) or attached copy of lease.

4 - (a) There are no mining activities on the property. However, three inclines are being operated by leaseholders on the Four Corners Uranium property just southwest of the claim group (see map), and another is being operated about 1,500 feet west of the center of the claim group. Information from the miners indicates a production of 200 tons per week, or more, averaging 0.40 per cent U_3O_8. These operations have started only recently, and have not reached full production.

Uranium has been mined for about 50 years from the high-grade outcrops in the Salt Wash to the west of the claims.

(b) See 4(a).

(c) The claim group is situated in the northeast edge of the San Rafael Swell. The San Rafael Swell is a structural dome enlongated about 70 miles northeasterly and some 40 miles in maximum width. Erosion has removed most of the uranium bearing formations in the interior of the Swell, but near the edge of the uplift, where the Shinarump or Salt Wash is exposed, important uranium deposits have been developed. Temple Mountain uranium deposits are about 25 miles south of the claims, and the Vernon Pick mine is in the southeast edge of the Swell.

The uranium deposits in the claim group occur in the upper 70 feet of the Salt Wash sandstone of the Morrison formation (see Section A-A') which dips about 6° easterly. Mineralization is widespread. In five holes drilled by the applicant on the claims, one indicated mineralization just below ore-grade, one was slightly mineralized, and one (RR-4) averaged 0.28 per cent U_3O_8 over a thickness of 7 feet (as logged by the AEC scintillation probe). Exploration drilling on the applicants adjoining property has indicated a similar trend and several areas being drilled appear near the development stage. The ore bodies in the mineralized areas are sufficiently close to mine from a central shaft or incline, judging by the mining and exploration activities on the Four Corners property and the applicants current drilling on his other claims. The ore may be high-grade,

4 - (c) 1.0 to 3.0 per cent U_3O_8, a few inches thick or up to 12 feet thick as reported to occur in some of the Four Corners areas.

It is believed that the drilling program will discover enough ore or subore-grade mineralization to justify development of the property by shaft sinking or close spaced drilling preparatory to shaft sinking.

(d) The claim group is reached from Greenriver, Utah, by travelling west on the Salt Lake City paved highway 9 miles, and thence south 7½ miles by fair unimproved dirt road to the claims. Thompson, a uranium buying station is 27 miles east of Greenriver by paved highway, or a total of 34½ miles by road from the claims. A uranium processing plant is proposed for Greenriver. Shipping, supplies, or residence can be obtained at Greenriver. Price, Utah, a town of about 7,000 population, is 64 miles from Greenriver by highway.

(e) Miners are available in the general area. Supplies and equipment are available in Greenriver, Price, or Grand Junction. There is no surface water except that caught in reservoirs; however, drilling indicates water may be obtained by a well in the low ground southwest of the claims.

5 - (a) Uranium

(b) Twenty holes are proposed for the first stage of drilling (Holes A-1 to A-20). Four of these (Holes A-5 to A-8) will be drilled as offsets 100 feet from the hole RR-4 which has a 7-foot thickness of 0.28 per cent U_3O_8. The other 16 holes will be drilled in the unexplored areas of the group. Two of the foregoing holes (A-1 and A-13) will be drilled through the Salt Wash for stratigraphic information, and to explore the possibility of uranium mineralization in the lower part of the Salt Wash. The remaining eighteen holes will only be drilled through the known ore horizons in the upper 70 feet of the Salt Wash.

Six holes in the second stage of drilling are planned to test the continuity of the ore or mineralization discovered in the first stage drilling. The second stage of drilling is predicated upon the results of the first stage.

5 - (b) Total drilling will amount to 11,890 feet in 26 holes. All holes in the first stage, except A-1 and A-13, will be plugbitted (non-core). Holes A-1 and A-13 will be cored only in the Salt Wash. All holes will be probed by the applicant's radiometric equipment, and when possible by the AEC scintillation logging truck. Some coreing is planned in the second stage drilling through the ore zones.

(c) The work will start within 15 days, and be completed within 4 months from the date of an exploration project contract.

(d) The applicant company was incorporated in February, 1954. It is staffed by experienced mining engineers and geologists. Five men in the organization have worked previously in uranium exploration.

Mr. D. C. Deringer, Vice President, is a graduate of the Colorado School of Mines and has 30 years experience in the field of mining. During the past ten years he has performed duties as general manager of major mining companies.

Dr. Ben H. Parker, Secretary, is a graduate of the Colorado School of Mines and has 20 years experience as geologist with major oil companies. He served as President of the Colorado School of Mines for 5 years and 5 years as Vice President of the Frontier Refining Company.

The project will be under the direct supervision of Quentin E. Conklin, formerly Deputy Director, Exploration Division, A. E. C., Grand Junction Operations Office, and Thomas J. Ballard, formerly Staff Mining Engineer, same organization. Other members of the company staff or management will assist or advise as need be.

6 - (a) Independent Contracts

Bulldozer

Roads: 15,000 feet of drill road constructed at rate of 200 feet per hour. 75 hours @ $13.00 per hour	$975.00
Drill Sites: Estimated 25 drill sites constructed at rate of 2 per hour	162.50
Drill Water Reservoirs: Estimated 5 hours for 2 reservoirs	65.00
Bulldozer Total	$1202.50

6 - (a) Drilling

First Stage:	20 holes - avg. depth 459.5 ft.	
Non-core:	8,770 ft. @ $1.75	$15,347.50
Core :	420 ft. @ $3.50	1,470.00
Total	9,190 ft. @ $1.83	$16,817.50
Second Stage:	6 holes - avg. depth 450 ft.	
Non-core:	2,350 ft. @ $1.75	$ 4,112.50
Core :	350 ft. @ $3.50	1,225.00
Total	2,700 ft. @ $1.97	$ 5,337.50
Total Drilling 26 holes, 11,890 ft.		$22,155.00
Total Independent Contracts		$23,357.50

(b) Labor

(1) Engineer	@ $800.00 per mo. Total	$ 3,200.00
(1) Geologist	@ $600.00 per mo. Total	2,400.00
(1) Sampler	@ $288.00 per mo. Total	1,152.00
	Total	$ 6,752.00

(c) Material

20 Wood Core Boxes @ $2.50	$ 50.00
50 Cloth Sample Bags @ $0.40	20.00
200 Survey Stakes	10.00
800 gallons gasoline (2 vehicles)	240.00
Utility Gasoline	12.50
Camp Groceries	1,100.00
Total	$ 1,432.50

(d) Operating Equipment

1 Dodge 1/4 ton Pickup (Owned by Co.) --Value--	$ 1,747.50
1 Willys Station Wagon (Owned by Co.) --Value--	2,458.66

Note:
Actual operating costs only (covered in Sec. 6 (c), 6 (g)) shall be chargeable to this project. Depreciation excluded.

(e) Not applicable

(f) None

(g) Miscellaneous

Repair & Equipment Maintenance

Est. $25.00 per month per vehicle	$ 200.00

Miscellaneous

Analytical Work: 50 samples @ $6.00	300.00
Accounting: 2 man days per mo @ $20.00 per day	160.00
Compensation: $6,752 wages @ $1.65 per $100.00	112.20
Liability Ins.: 3 employees approx.	80.00

6 - (g)	Payroll Taxes Approx.	$	135.00
	Total Miscellaneous	$	987.20

(h) No contingencies included.

RECAPITULATION OF PROJECT COST

Independent Contracts	$	23,357.50
Labor		6,752.00
Material		1,452.50
Miscellaneous		987.20
TOTAL	$	32,529.20

7 - (a) Yes.

(b) Money.

C O P Y

C O P Y

LEASE AGREEMENT

THIS AGREEMENT, made this 24th day of November, 1954, by DAVID A. ROWLAND of 9300 West 32nd Avenue, Denver, Colorado, and ANDREW G. McDERMOTT, of Box 413, Greenriver, Utah, hereinafter called "Lessor" and URANIUM PROSPECTORS CO., LTD., a Colorado corporation, with an office at 718 North Fifth Street, Grand Junction, Colorado, hereinafter called "Lessee",

W I T N E S S E T H:

WHEREAS, pursuant to the provisions of Part 60.7 of Title 10 Code of Federal Regulations, Lessor undertook to secure a uranium mining lease on the following described mining properties in Emery County, Utah:

Name	Identification, Marking and Posting Date	Notice of Lease Application Recorded in Book	at Page
Dede No. 1	5-15-54	J-20	331
Dede No. 2	"	"	332
Dede No. 3	"	"	333
Dede No. 4	"	"	334
Dede No. 5	"	"	335
Dede No. 6	"	"	336
Dede No. 7	"	"	337
Dede No. 8	"	"	338
Pee Wee No. 1	"	"	341
Pee Wee No. 2	7-12-54	J-28	377
Pee Wee No. 3	10-15-54		
Simon J. No. 1	5-15-54	J-20	339
Simon J. No. 2	5-15-54	J-20	340

(references to Emery County, Utah records)

and

WHEREAS, on September 23, 1954, Lessor mailed for filing with the Atomic Energy Commission an Application for Lease as provided by said regulation; and

WHEREAS, pursuant to Public Law 585, 83rd Congress, Lessor, on August 30, 1954, posted notices of location of a mining claim on each of said tracts, and on September 23, 1954, filed with the Atomic Energy Commission a withdrawal of said

C O P Y

C O P Y

Application for Lease and filed in the Emery County, Utah, records amended notices of location as follows:

Correction Initialed

Name	Amended Notice of Location Recorded in Book	At Page
Dede No. 1	J-49	359
Dede No. 2	J-49	360
Dede No. 3	J-49	361
Dede No. 4	J-49	362
Dede No. 5	J-49	363
Dede No. 6	J-49	364
Dede No. 7	J-49	365
Dede No. 8	J-49	366
Pee Wee No. 1	J-49	367
Pee Wee No. 2	---	---
Pee Wee No. 3	---	---
Simon J. No. 1	J-49	369
Simon J. No. 2	J-49	370

NOW, THEREFORE, in consideration of the premises and the covenants and agreements herein contained, it is agreed as follows:

1. Lessor hereby lets, leases and demises unto the Lessee all of the above described mining properties for a period of ten (10) years from the date hereof, unless sooner forfeited or terminated pursuant to any covenants or conditions herein contained and for the same consideration grants Lessee the right of renewal under the same conditions (excluding the advance royalty payments required to be paid lessor under paragraph 2(a) hereof) for five (5) successive ten year periods thereafter at the option of the Lessee.

2. (a) Lessee agrees to pay to the Lessor, as advance royalty, the sum of Twenty-five Thousand Dollars ($25,000.00) payable in installments without interest at the address of Lessor set forth above, with a grace period of two weeks after the due date as follows:

$7,250.00 on December 1, 1954

$8,875.00 on January 15, 1955

$8,875.00 on January 15, 1956

The payments specified above constitute advance royalties paid for the future production of ores from said mining properties, but is payable by Lessee without respect to the actual production of ores from the properties. It is further agreed that Lessee's right

COPY COPY

to surrender or terminate this Agreement, as hereinafter provided, shall not relieve it of its obligation to pay the advance royalty.

(b) In addition to the advance royalty required by subparagraph (a) hereof, Lessee, subject to its right to surrender or terminate this Agreement as hereinafter provided and thereby be relieved of the obligations of this subparagraph (b), shall pay to Lessor in advance a minimum royalty of Ten Thousand Dollars ($10,000.00) per full lease year, the first payment thereof falling due on April 24, 1957, which day shall also be the first day of the first full lease year covered by the first minimum royalty payment. Successive minimum royalty payments shall be due on the 24th day of April of 1958 and succeeding years, provided, however, that the obligation to make such minimum royalty payments shall terminate when Lessor shall have actually received from Lessee the sum of One Hundred Thousand Dollars ($100,000.00) as the aggregate of (1) the advance royalty payment of $25,000 required under subparagraph (a) hereof, (2) the minimum royalty payments required by this subparagraph (b), and (3) the actual royalty payments accrued and payable under paragraph 3 hereof, and provided further that the minimum royalty payment for the last year for which such payment must be made shall be reduced to the amount equal to the difference between $100,000.00 and the aggregate of (1), (2) and (3) above as of the last minimum royalty payment date. The termination of Lessee's obligation to make minimum royalty payments shall not affect the continuing obligation of Lessee to pay Lessor the actual royalty specified in Paragraph 3 hereof.

3. Lessor hereby reserves, and Lessee agrees to pay Lessor, as a royalty, fifteen per cent (15%) of the value of all ores, metals and minerals mined and sold from the premises, including 15% of any production bonus paid by the Atomic Energy Commission, but excluding any development or haulage allowances paid by any agency. Lessor shall be responsible for his share of any severance or p roduction tax or any tax measured by production excepting ad valorem or personal property taxes assessed against the premises

C O P Y

C O P Y

and the equipment thereon. Lessor agrees, however, that Lessee shall not be required to pay Lessor, and Lessee shall be entitled to retain, from time to time, the value of any royalty otherwise payable hereunder, during such period or periods as necessary to permit Lessee to recover the aggregate of the $25,000.00 advance royalty payable under subparagraph 2(a) hereof and the total of the minimum royalty payments theretofore made under subparagraph 2(b) hereof.

It is further understood and agreed that Lessee contemplates applying for one or more Defense Minerals Exploration Administration loans for the purpose of exploring and developing the premises and that the royalty payable to Lessor under this paragraph 3 shall be calculated on the values of the ores, metals and minerals mined and sold from the premises <u>after</u> deduction therefrom of any royalty or payment out of or measured by such production required to be paid by Lessee in repayment of any such DMEA loans secured by Lessee.

4. Any and all of the above mentioned payments of installments of advance royalty, minimum royalty and actual royalty shall be paid or tendered by Lessee to Lessor or to the credit of Lessor in The United States National Bank of Denver at Denver, Colorado, or its successors, which bank and its successors are Lessor's agent and shall continue as depository for all such payments regardless of changes in the ownership of the right thereto. In the event of changes of such ownership Lessor shall nonetheless continue as agent and trustee of all persons entitled to share in such payments and Lessee shall have no obligation to make division of such payments to reflect changes in ownership.

5. Lessor further agrees that he will subordinat his interest in the premises to the liens created by the DMEA loans and agrees to execute Consent to Lien forms required by the DMEA and

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all other necessary contracts and documents required by it or any other governmental agency.

6. In the event of any action, claim, dispute or controversy over title to the above described mining claims or any of them, whether initiated by third parties or initiated by the parties hereto in an attempt to establish a good and valid possessory title and whether resulting in actual litigation or not, it is agreed that Lessee shall have control of the litigation or negotiations arising out of the same and shall have the right to select and employ legal counsel in aid thereof. It is further agreed that Lessor shall reimburse Lessee in cash for the first $5000.00 expended by Lessee in such matters. If the costs of such matters shall exceed $5000.00, then Lessee shall advance such costs over $5000.00, and shall be entitled to deduct the full amount of such advances from 75% of any payments of advance royalty, minimum royalty and actual royalty thereafter to be made to Lessor with full credit to Lessee for such amounts, but without recourse against Lessor if 75% of such royalty payments is insufficient to return such costs to Lessee.

7. Lessee agrees:

To enter upon the leased premises and to explore, work and mine the same in good and minerlike fashion to such extent as Lessee in its judgment deems advisable, with due regard to the reasonable development and preservation thereof, except when prevented by weather, acts of God, unavoidable casualty, or by law or the rules and regulations of any governmental regulatory body;

To allow Lessor or his representatives to enter upon the premises at any reasonable time for the purpose of inspection, survey or taking samples therefrom;

To comply with all legal requirements of the State and Federal Mining Inspectors;

To pay for the account of the parties hereto all required severance or production taxes and any tax measured by production and to pay all ad valorem and personal property taxes validly assessed against the premises and the equipment thereon.

To assume all responsibility in case of accident or injury to Lessee's employees or third persons

C C Y C C Y

occurring in and about the leased premises, and to carry at all times Workmen's Compensation Insurance as required by the State of Utah;

To promptly pay all bills and expenses incurred by it for labor and material furnished or used on the leased premises so as to prevent the filing of liens of mines, mechanics or materialmen against said premises;

To comply, at all times during the term of this agreement, with the provisions of the laws now existing, or which may be hereafter enacted, relative to the performing of annual labor and improvements upon the leased premises and agrees to keep and file all necessary affidavits of assessment work so done by it.

8. (a) It is mutually understood and agreed that, in the event of a violation of any covenant and condition herein contained to be kept and performed by Lessee, except the obligation to make advance and minimum royalty payments as required herein, the Lessor may, at his election, notify Lessee of such default, specifying the default in substantial detail, and in the event Lessee does not, within sixty (60) days after its receipt of said notice, commence work to cure such default and continue such work with reasonable diligence, then at the end of such sixty (60) day period this lease shall terminate and Lessor or his representatives may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force and with or without process of law and notice of termination shall be addressed to Lessee, at its address set forth above, by United States registered mail, and shall be deemed given on the date of the mailing thereof.

(b) Lessee shall have the right, at any time or times hereafter, to terminate this agreement upon giving to the Lessor thirty (30) days' notice in writing, of its intention so to do, which notice shall be addressed to the Lessor at his address set forth above, by United States registered mail and shall be deemed given on the date of the mailing thereof.

(c) Lessee shall have the right, for a period of ninety (90) days after any termination of this agreement by cancellation, surrender or otherwise, to enter upon the leased premises and remove its machinery, equipment and personal property therefrom.

C O P Y

C O P Y

(d) It is expressly agreed that any such termination shall not relieve Lessee of its obligation to pay Lessor the installments of advance royalty required to be paid under paragraph 2(a) hereof or of its obligation to pay Lessor any accrued royalty to which he is entitled under the terms and provisions of paragraph 3 hereof, but shall specifically relieve Lessee of the obligation to pay the minimum royalty specified under paragraph 2(b) hereof and of any and all other duties and obligations whatsoever. In the event of such termination Lessor shall keep and retain all sums theretofore paid to him or to which he continues entitled as full liquidated damages and rent.

9. It is agreed that Lessee may freely assign or sublet the leased premises or any part thereof to any person, firm or corporation without the consent of Lessor.

10. The terms and provisions of this agreement shall be binding upon and inure to the benefit of the heirs, legal representatives and successors of the parties hereto.

IN WITNESS WHEREOF the parties hereto have executed this Lease Agreement the day and year first above written.

/s/ Andrew G. McDermott
Andrew G. McDermott

/s/ David A. Rowland
David A. Rowland

By David A. Rowland Attorney-in-Fact
David A. Rowland

LESSOR

URANIUM PROSPECTORS CO., LTD.

By /s/ D. C. Deringer
Vice President

ATTEST:

/s/ Ben H. Parker
Secretary

STATE OF COLORADO)
) ss.
CITY AND COUNTY OF DENVER)

On the 24th day of November, A. D. 1954 personally appeared before me DAVID A ROWLAND, the signer of the above instrument, who duly acknowledged to me that he executed the same.

/s/ Ruth C. Holzer
Notary Public
Residing at 1002 East Seventeenth Avenue, Denver, Colorado

My commission expires June 2, 1958

C
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P
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C
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Y

STATE OF COLORADO)
) ss.
CITY & COUNTY OF DENVER)

On the 6th day of December, A. D. 1954, personally app eared before me DAVID A. ROWLAND, ATTORNEY-IN-FACT FOR ANDREW G. MCDERMOTT, the signer of the above instrument, who duly acknowledged to me that he executed the same as Attorney-in-fact for Andrew G. McDermott.

/s/ Eugene Dines, Jr.
Notary Public
Residing at 2022 East 4th Avenue
Denver, Colorado

My commission expires January 14, 1956.

Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 23 1962
DATE
12/27 mo ~~800~~ 500
Uranium
Mining
220

December 18, 1962

Mr. David A. Rowland
8105 West 16th Place
Denver 15, Colorado

Re: DMEA-3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dede, et al., claims)
Emery County, Utah

Dear Mr. Rowland:

We have no map showing the location of the Lil, Jerry Boy Fraction Nos. 1 and 2 claims with reference to the claims subordinated under the terms of the captioned contract. Therefore, we cannot ascertain the area described in the Stipulation forwarded this office with your letter dated November 30, 1962.

Will you please submit two copies of a map showing the claims and the conflict area.

Yours very truly,

Original signed by

Hugh M. Connoro
Acting Field Officer, OME
Region III

cc Chief, Division of Field Operations, OME
Royalty Corres. E792
Chron
HMC/lm

Re: DMBC-3620

This stipulation seems to void the lien on part (what is not very evident!) of the property under Rowland's Consent to Lien.

Operator, however, is surety under contract.

Talbut
12/6/02

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/10	Murphy	500
	Richards	500
12/10	Talbert	800
	GCS	130
12/10	Johnson	110
12/10	Hamby	100
		220

DEC 1 0 1962

Memorandum

To: Acting Field Officer, Region III

From: Chief, Division of Field Operations

Subject: DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Dede, et al., claims
Contract Idm-E792

This is with reference to Mr. Rowland's letter of November 30, 1962, and the Stipulation forwarded with the copy of your letter of December 3, 1962, to Mr. Rowland.

Since we have no map showing the location of the Lil, Jerry Boy Fraction Nos. 1 and 2 claims with reference to the claims subordinated under the terms of the subject contract, we cannot ascertain the area described in the Stipulation. Therefore, it is suggested that you request Mr. Rowland to submit a copy of a map showing the claims and the conflict area. Upon receipt of the map, please forward a copy to this office.

George C. Selfridge (gla)

FMMurphy/mm
12-10/62
cc: Director's Reading File
Review Committee
✓Docket
Code 500

(Royalty review 6/16/59 by Lewis)

43683

Building 20 - Federal Center
Denver 25, Colorado

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O. M. E
RECEIVED DEC 6 1962

DATE	INITIALS	CODE
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		120
		~~500~~
		220

December 3, 1962

Mr. David A. Rowland
8105 West 16th Place
Denver 15, Colorado

Re: DMEA-3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dodo, et al., claims)
Emery County, Utah

Dear Mr. Rowland:

Thank you for your letter of November 30, 1962 and the Stipulation which you enclosed.

I am forwarding your letter and the Stipulation to the Washington Office OME for their comments.

Yours very truly,

Manual signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

cc Chief, Division of Field Operations, OME
with orig. and one copy Mr. Rowland's letter dated 11/30/62.
Royalty Corres. E792
Chron
HMC/lm

(2)

HMC

E. A. POLUMBUS, JR.
AND ASSOCIATES, INC.
CONSULTING PETROLEUM ENGINEERS
SUITE 220, C. A. JOHNSON BLDG. • TAbor 5-8193 • DENVER 2, COLORADO

November 30, 1962

OME
DEPARTMENT OF THE INTERIOR
DEC 3 1962
REGION III
DENVER, COLORADO

Mr. Hugh M. Connors
Acting Field Officer, OME
Region III
Building 20 - Federal Center
Denver 25, Colorado

E792

Dear Mr. Connors:

This is to advise you that I have settled out of court the dispute over the boundary issue concerning my Green River mining property. I am enclosing herewith a copy of the settlement agreement you requested.

Please note that we made no attempt to settle the factor of title to the property. I have been advised that this would entail another suit to be held in the state of Utah since Colorado does not have jurisdiction in this matter. Moreover, there appears to be a big question regarding "discovery" which makes the validity of my mining claims as highly questionable. Here again, a court ruling would be necessary to determine the ownership of the property from which ore was shipped.

Inasmuch as the ore shipped from the overlap area was attributed to the Shattuck Denn property, reduction of the DMEA loan on the Dede, et al, claims is not possible. We are still hopeful, however, of operating this property where the DMEA drilling uncovered good ore showings. As you are well aware, the policies of the AEC dictate to a large extent the commercial potential of a given property. It appears to us that their interest should be supported by other government agencies, such as the OME, which will assist in the recovery of investment loans such as that made on my property by the DMEA. I will appreciate learning of your comments in this regard.

Very truly yours,

David A. Rowland

David A. Rowland

DAR/cb

Enclosure

IN THE DISTRICT [illegible] U[illegible] IN AL[illegible]

COUNTY OF MESA [illegible] OF [illegible]

No. 12[illegible]

DAVID A. ROWLAND,	)	
Plaintiff	)	
vs.		
SH[illegible]TTUCK DENN COMPANY, a Nevada [illegible]oration, and SHATTUCK DENN [illegible]NG CORPORATION, a Delaware [illegible]orporation,	)	S T I P U L A T I O N
	)	
Defendants	)	
	)	
vs.	)	
MRS MI[illegible] EXPLORATION COMPANY, a [illegible] Corporation, R. F. [illegible], R. F. MAGOR III, [illegible] J. [illegible]AKLEY and LaVERNE R[illegible],	)	
Third Party Defendants	)	

THIS STIPULATION, made by and between the parties, i.e. Plaintiff David A. Rowland [illegible] [illegible]s Shattuck D[illegible] Company and Shattuck Denn [illegible] [illegible]oration, all c[illegible] [illegible] third party defendants [illegible] been heretofore dism[illegible]

[illegible]NESSETH:

[illegible]HEREAS, the Little Li[illegible] [illegible]ty Boy Fraction No. [illegible] known [illegible] Jerr[illegible] Fraction and [illegible]oy Fracture) and J[illegible] Fracti[illegible] unpatented lode [illegible] claims of Shattuck D[illegible] Co[illegible]any, are under lease [illegible] [illegible] Denn Comp[illegible] to [illegible] [illegible]ation of America, dated March 21, 1962 and [illegible]led [illegible] number [illegible] of the [illegible]ords of the County [illegible] County, [illegible];

WHEREAS, under agreement dated September 27, 1962, MRB Mining & Exploration Company, R. F. Magor, Jr., R. J. Magor III, H. J. Bleakley and LaVerne Ray, as parties of the first part, Shattuck Denn Company, as party of the second part, and Shattuck Denn Mining Corporation, as party of the third part, agreed that royalties should be paid to the first party in such agreement for ore mined from such mining claims and that, if Shattuck Denn Company "in connection with settlement of pending or future litigation with said David A. Rowland or predecessors or successors in interest, shall convey all or any portion of the said three claims to which said David A. Rowland now claims the ownership, such conveyance shall be free of any royalty restrictions in favor of any of the first parties and the sale of ore mined from the property so conveyed shall not be subject to royalties under this agreement";

WHEREAS, the parties have reached a settlement of the issues involved in the above entitled action as hereinafter set forth; and

WHEREAS, the Defendant Shattuck Denn Company has paid a sum of money to the Plaintiff;

NOW, THEREFORE, IT IS STIPULATED AND AGREED AS FOLLOWS:

1. The Court is requested to enter an order dismissing the complaint and amended complaint herein with prejudice and dismiss the first, second, third, fourth and fifth counterclaims of the Defendant Shattuck Denn Company with prejudice.

2. Upon receipt by the Defendant Shattuck Denn Company of a release of all of its rights under the aforementioned lease

dated March 21, 1962 of the following described portion of the property therein leased, to wit:

Commencing at a stone monument which is the northwest corner of the Jerry Boy Fraction No. 1 claim (the first notice of location of which was recorded in Book J-37 at Page 159 of the records of the County Recorder of Emery County, Utah), which point is also the northeast corner of the Little Lil claim (the first notice of location of which was recorded in Book J-37 at Page 158 of said records) and which point is further described as a stone monument built by S. R. Mc Dougald and Gilbert McDougald at the time they located the Little Sam claims (the notices of location of which were recorded in Book J-17 at Pages 49, 50 and 51 of said records); thence South 69°41' East 363 feet to a rock monument which is the point of beginning, being the northeast corner of said Jerry Boy Fraction No. 1 claim and the southeast corner of said Jerry Boy Fraction No. 2 claim; thence South 17°47' West 1500.8 feet to the southeast corner of said Jerry Boy Fraction No. 1 claim; thence North 83°30' West 107 feet, more or less, to the point of intersection of the westerly endline of the Dede No. 5 unpatented mining claim (the notice of location of which was recorded in Book J-67 at Page 5 of said records) and the south endline of said Jerry Boy Fraction No. 1 claim; thence North 10°41' East 306 feet, more or less, to a monument which is the northwest corner of said Dede No. 5 claim and the southwest corner of the Simon J No. 2 claim (the notice of location of which is recorded in Book J-67 at

Page 10 of said records), thence North 11°29' East 271 feet to the west end center monument of said Simon J No. 2 claim; thence North 12°45' East 1240 feet, more or less, to the north side line of said Jerry Boy Fraction No. 2 claim; thence along the north side line of said Jerry Boy Fraction No. 2 claim South 75°30' East 266 feet, more or less, to the northeast corner of said Jerry Boy Fraction No. 2 claim; thence South 18°16' West 304.3 feet to the point of beginning;

and upon the receipt by the Defendant Shattuck Denn Company of a good and sufficient quit claim deed of David A. Rowland and his wife, Katherine L. Rowland, conveying to Shattuck Denn Company all of the grantors' right, title and interest in and to all those parts of the Dede No. 1 mining claim (the notice of location of which is recorded in Book J-67 at Page 1[illegible] in the office of the Recorder of Emery County, Utah) lying within the boundaries of any and all of the following described mining claims:

Claim Name	Recording of Notice of Location in Office of Said Recorder Book	Page
Little Lil	J-37	159
Jerry Boy Fraction No. 1	J-37	159
Jerry Boy Fraction No. 2	J-55	283

and lying westerly of the tract first above described in this paragraph, then the Defendant Shattuck Denn Company will execute and deliver to the Plaintiff David A. Rowland a good and sufficient quit claim deed conveying all of its right, title and interest in

and to that portion of [illegible] Jerry Boy Fraction No. 1 and Jerry Boy Fraction No. 2 mining claims, first above described in this paragraph, all of its interest in and to the Charlie unpatented mining claims Nos. 1, 2, 3, 4 and 5 and the Legal No. 1 unpatented mining claim embraced in the lease agreement recorded in Book J-126 at Pages 298-302 of the records of the County Recorder of Emery County, Utah, and all rights obtained by Shattuck Denn Company under the conveyance and assignment of Andrew G. McDermott and Norma McDermott recorded in Book Miscellaneous 5 at Pages 76-78 of said Emery County records, except the portions of mining claims to be conveyed by David A. Rowland to Shattuck Denn Company under the foregoing provisions of this paragraph.

3. Without delay the Defendant Shattuck Denn Company shall furnish to the Plaintiff David A. Rowland any information in its possession concerning drilling operations performed by it upon any of the mining claims claimed by David A. Rowland in the area of the said Simon J No. 1 claim, including copies of any drill logs and information as to cost of drilling.

4. The Plaintiff David A. Rowland and the Defendant Shattuck Denn Company will do all things reasonably necessary to procure the dismissal with prejudice of the action, No. 153306, brought by Shattuck Denn Company against David A. Rowland now pending in the District Court in and for the City and County of Denver, Colorado.

5. The parties hereto have settled and released, and do hereby settle and release, all claims of every kind and nature, known or unknown, which any may have against another, except only

that, if all the conditions mentioned in paragraph numbered 2 hereof are not met, conflicts between the mining claims of the parties shall still exist, but the continuance of such conflicts shall not affect the release of all other matters.

6. The provisions hereof shall inure to the benefit of and be binding upon the heirs, representatives and assigns of the Plaintiff and the successors and assigns of the Defendants Shattuck Denn Company and Shattuck Denn Mining Corporation.

SIGNED this 23rd day of October, 1962.

David A. Rowland

David A. Rowland

SHATTUCK DENN COMPANY

By John A. Moore
Vice President

SHATTUCK DENN MINING CORPORATION

By Warren G. Thomas
Attorney

APPROVED:

Petrie, Waldeck & King

By William J. Waldeck
Attorneys for Plaintiff

Groves, Dufford, Nelson & Spiecker

By James K. Groves
Attorneys for Defendant
Shattuck Denn Company

Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 27 1962

DATE	INITIALS	CODE
8/27	yes	800
	[illegible]	500
8/27	Murphy	002
		220

August 22, 1962

Mr. David A. Rowland
8105 West 16th Place
Denver 15, Colorado

Re: DMEA-3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dede, et al., claims)
Emery County, Utah

Dear Mr. Rowland:

Thank you for your note of August 21, 1962 and the enclosures from your attorney.

I will appreciate your keeping me advised of future progress in your boundary dispute.

Yours very truly,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

HMC/lm
cc Chief, Division of Field Operations, OME
with attachments

Idm-E792
Chron

Mr. Connors:

These letters may seem to keep you informed as to recent developments regarding my case with Shattuck Denn. I will continue to send information in this manner that you will be acquainted with the results as they occur.

Dan Rowland

DMEA-3620

Idn-E792

PETRIE, WALDECK & KING
ATTORNEYS AT LAW
MONTROSE, COLORADO

August 1, 1962

E 792

Mr. David A. Rowland
Suite 220
C. A. Johnson Building
Denver 2, Colorado

Dear Dave:

I received a call yesterday from James Groves, who is a prominent attorney in Grand Junction. He stated that Shattuck Denn was removing Frank L. Seymour as its attorney in the case and that Seymour had been authorized to turn over the files to Groves' office but that Seymour has refused to do so. Groves wanted to know whether we would be willing to agree to grant any additional time since he was just coming into the case. This I utterly refused to do.

I do not know whether it will be helpful or harmful that another attorney will be coming into the case. Frankly, I was quite pleased at having Frank as my opposition. Nevertheless, it may enhance our chances of a settlement to have a reputable attorney investigate the law suit and report the true facts to Shattuck Denn. I have had the feeling all along that Shattuck Denn was not aware of the real facts of the case.

We will keep you advised of developments.

Yours very truly,

PETRIE, WALDECK & KING

By William G. Waldeck
William G. Waldeck

WGW:sel

PETRIE, WALDECK & KING
ATTORNEYS AT LAW
[illegible] AVE. SW.
MONTROSE, COLORADO

July 31, 1962

E 792

Mr. David A. Rowland
Suite 220
C. A. Johnson Building
Denver 2, Colorado

Dear Dave:

Sent you herewith is a copy of the Amended Complaint which we have filed in the within action.

We will write you further concerning this matter as things progress toward the trial date which has been set for October 22, 1962, commencing at 9:30 a.m. in the Court House in Grand Junction, Colorado.

Best Regards,

Yours very truly,

PETRIE, WALDECK & KING

By William G. Waldeck
William G. Waldeck

WGW:sel

Enclosure

PETRIE, WALDECK & KING
ATTORNEYS AT LAW
604 MAIN ST.
MONTROSE, COLORADO

May 21, 1962

OME
DEPARTMENT OF THE INTERIOR

E 792

Mr. David A. Rowland
220 C. A. Johnson Building
Denver, Colorado

Dear Dave:

We had a hearing on Frank Seymour's motion in the proceeding now pending before the District Court of Mesa County, and I am happy to report that the court denied Seymour's motion and gave Shattuck Denn fifteen days in which to further answer. Therefore, with this now standing, there is a case pending in Mesa County and one in Denver. I am not sure that this will not be advantageous to us since it will be an opportunity for us to give more trouble to S. D. as well as M. R. S. if they are brought in.

There have been some rather interesting developments with respect to Shattuck Denn which I would like to pass on to you. T. W. Newell has resigned as the vice-president of Shattuck Denn. Whether it was because of this case or not, I do not know. I have the understanding that he is now in Alaska, which leads me to believe that he is associated with C. O. Keller. In addition, Frank Seymour claims that he is no longer on the pay roll of Shattuck Denn, but that the company has given him a $5,000.00 retainer to handle your case. It appears to me that Shattuck Denn is closing up shop as far as this Grand Junction operation is concerned. What the significance of this may be, I cannot tell.

I will keep you advised of developments as they occur.

Yours very truly,

PETRIE, WALDECK & KING

By William G. Waldeck
William G. Waldeck

WGW:sal

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
4/9	Murphy	500
	[illegible]	500
4/9	Talbert	800
		120
		110
		100
		220

Mr. David A. Rowland
8105 West 16th Place
Denver 15, Colorado

Re: DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Dede, et al., Claims
Emery County, Utah
Contract Idm-E792

Dear Mr. Rowland:

This is to acknowledge receipt of the request for information forms forwarded to you.

A review of the docket shows that you submitted copies of your lease, dated February 20, 1960, to the M.R.B. Mining and Exploration Co., or Magor Mining Co., and your letter of December 6, 1960, cancelling the lease. Our request for information should have read from that date, rather than January 1, 1960. We are sorry for this oversight.

With regard to the second question concerning production, which you did not answer, your attention is invited to that portion of Article 8(b) of the contract which provides that the Operator, as surety if not the producer, shall pay the Government royalty, and the Consent to Lien, dated April 9, 1955, signed by you as Attorney-in-Fact, grants the Government a lien on all the owners' right, title and interest in the land and upon any production therefrom. Accordingly, in event of production from the claims, the Government must continue to look to Uranium Prospector's Co., and to you for payment of royalty until April 28, 1965, or the Government's contribution of $20,945.14 is repaid.

In view of the above, we are en closing new copies of the request for information forms for completion.

Sincerely yours,

FMMurphy/gla 4-9-62
cc to: Director's Reading File
Region III (2)
Contract Division
Docket
Code 500

Director

Enclosures

Talbert

43683

OFFICIAL FILE COPY O. M. E RECEIVED AUG 10 1961		
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8/10		800
		500
8/10		500
		220

Building 20 - Federal Center
Denver 25, Colorado

August 7, 1961

Mr. David A. Rowland
8105 West 16th Place
Denver 15, Colorado

Re: DMEA-3620 (Uranium)
Contract Idm E792
Uranium Prospectors Company, Ltd.
(Bede, et al., claims)
Emery County, Utah

Dear Mr. Rowland:

Thank you for the copy of your Attorney's letter to Shattuck Denn Company dated August 2, 1961.

I will appreciate your keeping me advised of future progress in your boundary dispute.

Yours very truly,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

HMC/lm
cc Chief, Division of Field Operations, OME
with copy of Attorney's letter 8/2/61
Idm E792
Chron

EARLE BRYANT
CHARLES A. PETRIE
WILLIAM C. WALDECK
DANIEL S. KING

(1)

BRYANT, PETRIE, WALDECK & KING
ATTORNEYS AT LAW
BRYANT BUILDING
MONTROSE, COLORADO

P. O. BOX 250
PHONE CHERRY 9-4931

August 2, 1961

OFFICIAL FILE COPY
O. M. E
RECEIVED AUG 10 1961

DATE	INITIALS	CODE
	OME	
	DEPARTMENT OF THE INTERIOR	
	AUG 1961	
	REGION III	
	GRAND JUNCTION, COLORADO	

E 192

Shattuck Denn Company
317 Main Street
Grand Junction, Colorado

Gentlemen:

We have been retained by David A. Rowland in connection with certain unpatented mining claims which Mr. Rowland owns in the Green River district of Emery County in the State of Utah. These claims include, among others, the Simon J Nos. 1 and 2 and the Dodo Nos 1 and 5 claims. Recently Mr. Rowland in accompany with Mr. Mark Shipman made an inspection of the claims and the adjoining workings upon which your company is now conducting operations. From such investigation it appears that you have been and are now mining across the agreed boundary line upon claims owned by Mr. Rowland.

We have made an investigation of the various documents relating to these claims and note that your company is fully advised of the ownership of Rowland and of the agreed boundary line in question. Under such circumstances the mining of ores by your company from Mr. Rowland's claims constitutes a deliberate or wilful trespass within the meaning of the Utah statute appearing as 40-1-12, Utah Code Annotated, (1953) which subjects your company to liability in an amount equal to three times the value of the ore removed without any deduction either for mining, removing, transporting or selling such ores. The amount of damages which have been suffered by Mr. Rowland to date from such trespass is in excess of $100,000.00. Please be advised that any further ore which you remove in derogation of the rights of Mr. Rowland will subject you to treble damages for the gross value of any such ore removed. In addition thereto unless your company shall pay to Mr. Rowland the sum of $100,000.00 for ores heretofore removed appropriate legal action shall be commenced against your company.

Should you wish to discuss this matter with us or have your attorney do so please feel free to contact us. If no contact

is made we shall proceed with legal proceedings.

Yours very truly,

BRYANT, PETRIE, WALDECK & KING

By William G. Waldeck
William G. Waldeck

WGWide

cc: David A. Rowland
c/o E. A. Polumbus & Assoc.
Suite 220, C. A. Johnson Bldg.
Denver, Colorado

OME
DEPARTMENT OF THE INTERIOR
AUG 7 1961
COLORADO

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUL 14 1961

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7/14	[illegible]	800
"	Gruwell	500
7/14	Murphy	500
		220

Building 20 - Federal Center
Denver 25, Colorado

July 11, 1961

Memorandum

To: File

From: Hugh M. Connors, Acting Field Officer, OME, Region III

Subject: DMEA-3620 (Uranium)
Contract Idm E792
Uranium Prospectors Company, Ltd.
(Dede, et al., claims)
Emery County, Utah

Mr. Rowland telephoned this morning and stated that he is making every effort to ascertain if Four Corners and/or Shattuck Dean Company are mining and removing ore from the area in conflict.

He promised to keep us advised.

HMC

Hugh M. Connors

HMC/lm
cc Chief, Division of Field Operations, OME
Royalty Corres E792
Chron

OFFICIAL FILE COPY O. M. E. RECEIVED JUN 5 1961		
DATE	INITIALS	CODE
6/5	gad	220
6/5	[illegible]	800
	[illegible]	500
		220

Building 20 - Federal Center
Denver 25, Colorado

June 1, 1961

Memorandum

To: File

From: Hugh M. Connors, Acting Field Officer, OME, Region III

Subject: DMEA-3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dede, et al., claims)
Emery County, Utah

Mr. Rowland telephoned me this morning and stated that he has heard nothing further from Shattuck Denn Company regarding the proposed lease on his property. He believes that Shattuck Denn Company is using the proposed lease as bait to get Mr. Rowland to agree to settle the claim boundary dispute.

Mr. Rowland stated further that he believes both Shattuck Denn Company and Four Corners are removing ore from his land and he will consult a lawyer for legal advice on how he should proceed.

Mr. Rowland promises to keep us advised.

Original signed by

Hugh M. Connors

HMC/lm
cc Chief, Division of Field Operations, OME
Idm E792
Chron

OFFICIAL FILE COPY
O. M. E
RECEIVED APR 7 1961

DATE		CODE
4-7	gad	VVO
"		IVO last
4/10	[illegible]	800
"	~~Murphy~~	~~500~~
		120
		220

Building 20 - Federal Center
Denver 25, Colorado

April 4, 1961

Memorandum

To: File

From: Hugh M. Connors, Acting Field Officer, OME, Region III

Subject: DMEA-3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dede, et al., claims)
Emery County, Utah

Mr. Rowland called me this morning and stated that Shattuck Denn Company informed him that they are experiencing difficulties in the sale of uranium ore and unless they can get an increase in their allotment they will not be interested in developing the subject claims.

Mr. Rowland stated that he would contact the AEC regarding the ore allotment and he will keep us advised.

Hugh M. Connors

HMC/lm
cc Chief, Division of Field Operations, OME
Idm E792
Chron

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/29	Murphy	500
	Harold	500
3/29	Talbert	800
3/29	Selfridge	120
		110
		220

MAR 29 1961

Mr. David A. Rowland
8105 West 16th Place
Denver 15, Colorado

Re: DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Dede, et al., claims
Emery County, Utah
Contract Idm-E792

Dear Mr. Rowland:

This is in reference to your March 21 letter pertaining to the legal descriptions of the land involved in the captioned contract.

We are enclosing a copy of Annex I to the contract which covers fully the land description available to us. Since we do not have copies of the individual notices of location, we can supply no further details.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Enclosure

FMMurphy/gla
3-29-61
cc to: Director's Reading File
Region III w/ 2 cys incoming letter
Code 500
Docket

43683

E. A. POLUMBUS, JR.
AND ASSOCIATES, INC.
CONSULTING PETROLEUM ENGINEERS

SUITE 220, C. A. JOHNSON BLDG. • TABOR 5-8193 • DENVER 2, COLORADO

E. A. POLUMBUS, JR., PRESIDENT
J. L. WIBLE, CHIEF ENGR. & GEN. MGR.

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 24 1961

DATE	INITIALS	CODE
3-24	gad	VVO
3/24	[illegible]	800
"	Murphy	500
		220

March 21, 1961

Mr. George Selfridge
Chief of Field Operations
Office of Mineral Exploration
Department of Interior
Washington 25, D. C.

Re: Docket No. DMEA - 3626 3620
Contract No. Idm - E792
Uranium Prospectors Co., Ltd.
Dede, etal, claims
Emery County, Utah

Dear Mr. Selfridge:

I am writing this letter to you following a suggestion of Mr. Hugh M. Connors of your Denver office. I am the owner of several mining claims located near Green River, Utah on which a DMEA loan was granted in 1955. I was not supplied with copies of the transaction made between the then lessee "Uranium Prospectors Company, Ltd." and your office covering this contract. Will you kindly supply me with a copy of all correspondence, contracts, maps and legal descriptions relative to my claims contained in the above cited Docket.

A conflict has arisen between this property and that adjoining to the west which may jeopardize some of the writers holdings. It is my desire to ascertain the exact area your department regards as contained in the "Consent to Lien" which I signed on April 9, 1955.

Very truly yours,

David A. Rowland
David A. Rowland

DAR:lm

8105 W. 16th Place
Denver 15, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY O. M. E RECEIVED MAR 22 1961		
DATE	INITIALS	CODE
3/22	gad	VVO
3/23	[illegible]	800
	Murphy	500
		220

March 20, 1961

Memorandum

To: George C. Selfridge, Chief
Division of Field Operations, OME
Washington 25, D.C.

From: Hugh M. Connors, Acting Field Officer, OME, Region III

Subject: Docket No. DMEA-3620 (Uranium)
Contract Idm. E792
Uranium Prospectors Company, Ltd.
(Dede, et al. claims)
Emery County, Utah

Mr. David A. Rowland came to the Region III OME Office on March 17, 1961 and stated that he was experiencing boundary disputes on the west side of his claims which is shown on the attached "Sketch of Uranium Claims." I explained to Mr. Rowland that as far as the Government is interested concerning royalty, the conflict between the Vanura No. 8 claim and the Dede claims No. 5, 6, and 7 is not important because the Vanura No. 8 claim is subordinated to the Government under Contract No. Idm E1099 Four Corners Uranium Corp. I also explained that we are vitally interested in the conflict with the Little Sam group because the Little Sam claims are not subordinated to the Government.

Mr. Rowland had a large map which showed a stope in the conflict area which had been mined through a shaft on the Little Sam group. I read to Mr. Rowland, the contents of the Consent to Lien which he had signed prior to the awarding of the contract. Mr. Rowland stated that he will consult a mining lawyer and bring suit to settle the boundary dispute and to get an accounting of the ore mined in the area of conflict.

Attached are two copies each of letters Mr. Rowland gave me as follows:

(1) Sketch of Uranium Claims

(2) Letter dated April 10, 1959 from David A. Rowland to John Post

(3) Copy of letter from John R. Post to Dr. David A. Rowland dated April 3, 1959

(4) Letter from David A. Rowland to R. B. Coleman dated January 19, 1961

(5) Letter from R. B. Coleman to David Rowland dated January 30, 1961

(6) Letter from T. W. Newell to David Rowland dated February 7, 1961

(7) Letter from David A. Rowland to T. W. Newell dated February 13, 1961

(8) Letter from David A. Rowland to T. W. Newell dated March 8, 1961.

Hugh M. Connors

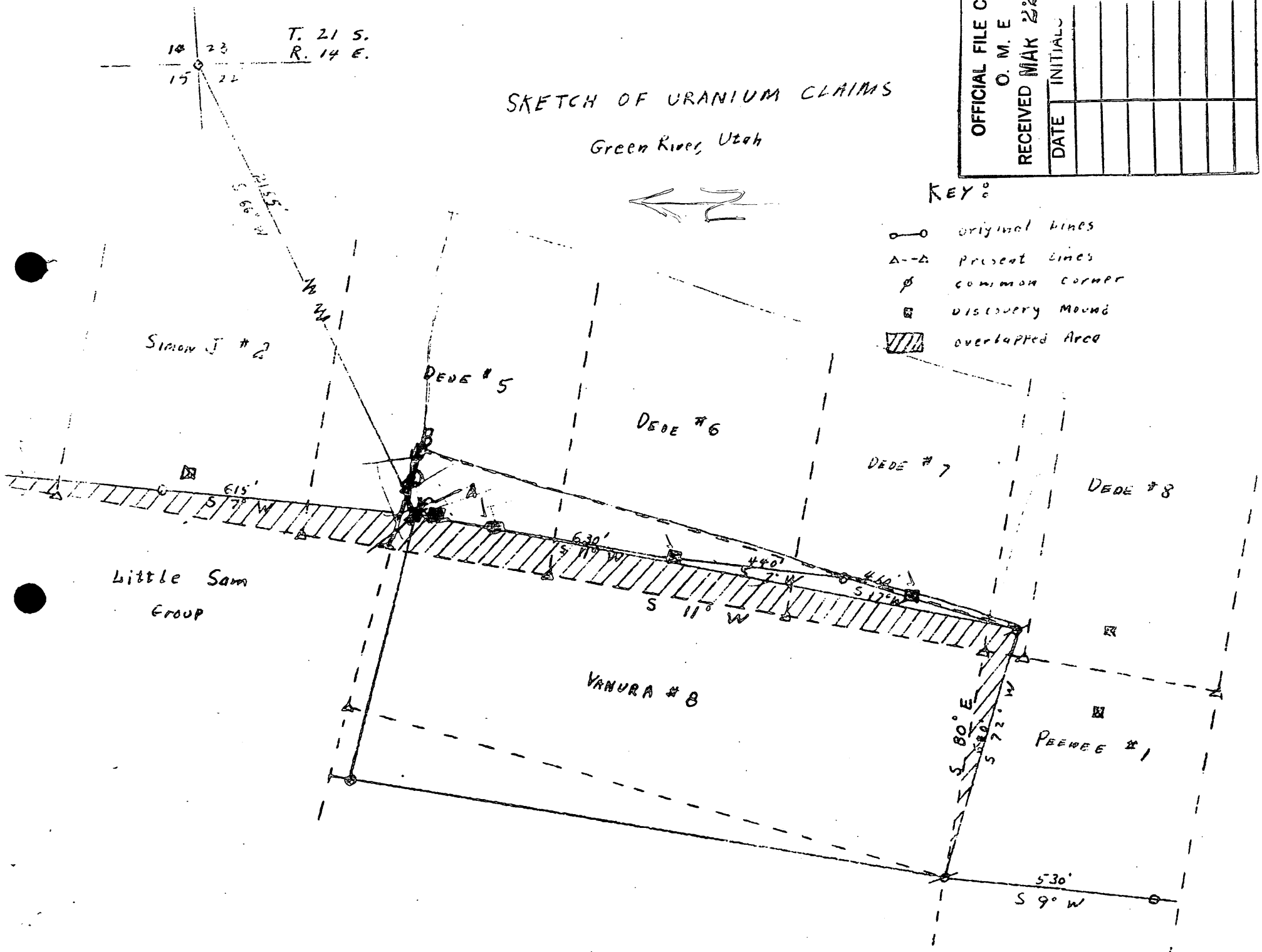
Hugh M. Connors

Attachments

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961
DATE INITIALS

SKETCH OF URANIUM CLAIMS

Green River, Utah



OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	CODE

GOLDEN, COLORADO

April 10, 1959

Mr. John Post
Four Corners Uranium Company
Mile High Center
Denver 2, Colorado

Dear John:

This is in response to your letter dated April 3, 1959 concerning the overlap that occurs between the Dodo #5, 6 and 7 claims and the Vanura #8 claim. The description given in your letter is not entirely clear and the purpose of this letter and accompanying map of the area is intended to rectify any mis-understanding regarding this conflicted portion.

As I have mentioned on several occasions the original NE corner of the Vanura #8 claim (shown as point A on the map) was a common corner with the following claims: NW corner of Dodo #5, SW corner of Simon J #2, and the SE corner of the Little Sam Group. When I re-located my claims as prescribed by Public Law #585 an effort was made to adjust the lines such that a standard full sized (1500'x600') claim resulted in addition to having the end lines parallel. In so doing, it was necessary to extend a portion of these claims over the Vanura #8 as indicated by the cross-hatched area on the map. It has never been my intention to assume ownership of this area as pointed out in our recent conversation.

Please note that the present discovery mounds of the Dodo #5, 6 and 7 claims were placed outside the cross-hatched area, hence, are valid claims and do not necessitate the re-location as suggested in your letter. In regard to the new location of the NE corner of Vanura #8 (shown as point B on the map) I trust the Four Corners Uranium Corporation will not claim the ensuing overlap of the Dodo #5, 6 and 7 claims. The same applies to the recently staked Vanura #9 claim. In conformance with our recent discussion I presume this was your intention as set forth in your letter of April 3. I hope this letter and accompanying map will serve to clarify the portion in conflict.

Very truly yours,

David A. Rowland

Encl:

cc: Vitro Uranium Company

FOUR CORNERS URANIUM CORPORATION
MILE HIGH CENTER
ALPINE 5-0327
DENVER 2, COLORADO

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	CODE

April 3, 1959

Dr. Dave Rowland
Colorado School of Mines
Golden, Colorado

Dear Dave:

Confirming our conversation relative to the overlap of the Vanura #8 and Dade #5, 6 and 7, Vitro, you and we agree that the best way to clear this up is to relocate the discovery monuments on Dade #5, 6 and 7 so that they will fall well outside of our Vanura #8. This relocation will be done by Vitro and our personnel as agents for you.

It is understood that by so doing you will quitclaim to Four Corners Uranium Corporation the overlapping portion of Dade #5, 6 and 7 where it was overlaid on Four Corners' Vanura #8. In return, Four Corners will quitclaim to you its recently staked claim Vanura #9.

Please show your acceptance by signing the extra copies enclosed and mailing one to our Denver office and the other to P. O. Box 1749, Grand Junction. Mr. James Baldwin of Four Corners Uranium Corporation will go to Green River Monday, April 6th to start this work. Dr. Clark insists that he have this statement approved by you before he will permit Mr. Baldwin to take any action whatsoever. Therefore, please expedite signature of these and send a copy to Grand Junction by air mail.

Very truly yours,

John R. Foot
for FOUR CORNERS URANIUM CORPORATION

JRP/br
cc: Vitro Minerals Corp.
Dr. E. L. Clark

ACCEPTANCE:

_____

January 10, 1961

Mr. R. B. Coleman
Vitro Chemical Company
600 W 33rd South Street
Salt Lake City 15, Utah

Dear Bob:

This is to advise that my lease covering certain mining claims located near Green River, Utah with the M R and B Mining Company dated February 20, 1960, and approved by the Vitro Chemical Company by letter dated April 8, 1960, has been declared void.
I should like to call to your attention paragraph 3e of the above mentioned lease wherein the Vitro Uranium Company is instructed to make payments directly to the lessee and lessor in accordance with the terms set forth in paragraph 3. I shall appreciate receiving immediately a royalty check for the shipments made last Fall from the claims covered in this lease. Also, please send a record of payments made to the U. S. Government for the DMEA loan.

I am waiting to hear from Mr. Newell to discuss new terms covering my claims. I hope to have something definite in the next few days.

Incidentally, during my recent visit to the Shattuck Denn Office in Grand Junction, I observed a map of my claims drawn by your firm which I would very much appreciate receiving a copy. If you recall, you promised to send me a current map and copies of drill logs in your letter of April 19, 1960. Magor was supposed to have given me copies of his drilling on my claims as stated in paragraph 13 of the above mentioned lease.

Any comments regarding the status of my property you may have will be appreciated.

Very truly yours,

David A. Rowland

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	

Vitro CHEMICAL COMPANY
A SUBSIDIARY OF VITRO CORPORATION OF AMERICA
600 WEST 3300 SOUTH STREET · SALT LAKE CITY 15, UTAH · INGERSOLL 7-5414

January 30, 1961

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	CODE

Mr. David A. Rowland
Suite 220
C. A. Johnson Building
Denver, Colorado

Dear Dave:

Thank you for your letter of January 10, advising us of the cancellation of your lease with the M.R.&B. Mining Company.

With regard to the royalty payment in Paragraph 3e of the contract, whereby we pay the royalty direct to you, I call your attention to Paragraph 4 of the same contract regarding the $200.00 per month minimum royalty. Since the 10% royalty check for the payments amounted to only $123.32, we did not make any royalty payments to you, since this amount was less than the $200.00 per month minimum. Also, you will note in the contract that it was not our obligation to pay the DAME Loan.

With regard to a map of your claims drawn by us, I am not familiar with any such map. Also, it was my understanding that as a result of the lease in question with M.R.&B., they were to send two copies of all maps and logs to you. All of the information that I had is now in the hands of Shattuck-Denn and I would suggest that you contact them with regard to such data.

With regard to the status of your property, it is first essential that you eliminate completely M.R.&B. and Radium Hill from any holds on the property. Until such time as you obtain either a Quit Claim Deed or Lease of Abandonment from Radium Hill, I do not think that Shattuck-Denn will enter into any deal. As you are no doubt aware once this is done you would then be in a good position to arrange for a lease directly with Shattuck-Denn.

If you still have any question regarding the payment of the royalty, please let me know.

Best personal regards.

Very truly yours,
VITRO CHEMICAL COMPANY

R. B. Coleman
Ore Buyer

RBC/jch

SHATTUCK DENN COMPANY

BOX 296
MORRISTOWN

[illegible] MAIN STREET
GRAND JUNCTION, COLORADO

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	CODE

February 7, 1961

Mr. David A. Rowland
c/o E. A. Polumbus & Assoc., Inc.
Suite 220, C. A. Johnson Bldg.
Denver, Colorado

Dear Mr. Rowland:

Mr. Seymour has told me of his visit with you in Denver last week regarding a possible lease of your mining claims to the east of our operations in the Green River Mining District. I have requested him to make a report concerning the status of the lease between you and Radium Hill and also I have asked his opinion concerning the overlap situation which appears to exist between your claims and ours.

Provided these matters, or others, present no serious problem, we would be interested in entering into a lease with you on a reasonable royalty basis which we would suggest to be 10%.

We are also investigating the matter of what ground the government feels is covered by their DMEA loan for this too could present a problem of a 5% royalty which could possibly be shared between you and our company as Mr. Seymour discussed with you.

Before any further negotiations whatsoever, we would feel that you should settle your problems with Radium Hill in some type of a formal instrument, for our company would not care to become involved in any possible dispute. I hope that we can hear from you regarding these suggestions in the near future and that we can make arrangements for a meeting for further negotiations in the event you and Radium Hill resolve your lease situation.

Mr. Seymour has this day ordered a complete abstract of title to your claims in anticipation of such a possible lease.

Sincerely,

T. W. Newell

TWN:dl

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	CODE

February 13, 1961

Mr. T. W. Newell
Shattuck Denn Company
317 Main Street
Grand Junction, Colorado

Dear Mr. Newell:

This is in response to your letter of February 7, 1961, offering to lease certain mining claims that I own laying East of your Green River Operations. I am not interested at this time to lease this property for the royalty of 10 percent which you suggested. As I explained to Mr. Seymour during his visit last week, I will lease this property for a royalty of 15 percent, and we will split the 5% DMEA obligation.

As far as I am concerned, the lease I made to the MR&B Mining Company on February 20, 1960 covering these claims - later assigned to Mr. Homer Noble and Radium Hill Mining Company - is completely void and will not present an obstacle in my re-leasing this property to whomever I wish.

I am firm in my understanding that my claims are prior to the Little Lil and Jerry Boy Fraction claims presently under your control. I will appreciate receiving from you a letter confirming this factor in the very near future to assure that development of the claims in conflict may continue without interruption. I most certainly will not consider the arrangement you suggest whereby your firm and myself would share the 5% royalty due the Government in reduction of the DMEA loan.

Very truly yours,

David A. Rowland

DAR:ab

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 22 1961

DATE	INITIALS	CODE

March 8, 1961

Mr. T. W. Newell
Shattuck Denn Company
317 Main Street
Grand Junction, Colorado

Dear Mr. Newell:

I have recently examined available records concerning the overlap that exists between my claims and the Jerry Boy and Little Lil claims as indicated on your map of the Newell Mine Underground Operation" dated November 15, 1960. It is obvious that my claims were staked prior to the Jerry Boy and Little Lil claims and therefore have valid title to the area in conflict.

Under no condition will your firm cause ore to be mined from any part of the Dodo and Simon, Jr. claims until satisfactory arrangements can be made which will authorize you to do so. The western boundary of my property is adequately expressed by the dashed lines on the above captioned map with the exception of the NW corner of the Simion J. No. 2 claim. This corner stake was apparently moved during road construction which occurred prior to your survey. The true boundary may be regarded as a straight line drawn between the end - center stakes of the Simion J. No. 1 and 2 claims.

Very truly yours,

DAR:bh

David A. Rowland

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 20 1961

DATE	INITIALS	[illegible]
3-20	gad	VVO
3/20	[illegible]	800
3/20	Murphy	500
		220

Building 20 - Federal Center
Denver 25, Colorado

March 15, 1961

Mr. David A. Rowland
8105 W. 16th Place
Denver 15, Colorado

Re: Docket No. DMEA-3620 (Uranium)
Contract Idm E792
Uranium Prospectors Company, Ltd.
(Dede, et al. claims)
Emery County, Utah

Dear Mr. Rowland:

I have received no reply to my letter to you dated February 15, 1961 regarding your boundary dispute. I am anxious to know the source of the ore which you think was shipped in September, 1960.

Will you please advise.

Yours very truly,

Original signed by

Hugh M. Commors
Acting Field Officer, OME
Region III

HMC/lm
cc Chief, Division of Field Operations, OME (2)
Contract Corres. E792
Chron

Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E
RECEIVED FEB 17 1961

DATE	INITIALS	CODE
2/17	Cae	210
2/17	[illegible]	800
	Murphy	500
		220

February 15, 1961

Mr. David A. Rowland
8105 W. 16th Place
Denver 15, Colorado

Re: Docket No. DMEA-3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dede, et al claims)
Emery County, Utah

Dear Mr. Rowland

Thank you for the copies of your lease agreement with M.R.B. Mining and Exploration Company and the letter cancelling the lease, dated December 6, 1960.

Following our telephone conversation, I made a search of records which are available to us on all shipments of uranium ore during the third and fourth quarters of 1960. The records show no production from the Dede, Simon J, and Pewee claims. Your statement that the lease to M.R.B. Mining and Exploration Company has been assigned several times to Noble, Radium Mill, and Shattuck-Denn Company and your statement that some of your claims have been over-staked, indicates that the shipment of ore of which you have knowledge possibly came from some of the over-staked area and was shipped under a different claim name.

Will you please advise what action you are taking to settle this boundary dispute and to determine the source of the ore which you think was shipped in September 1960.

Yours very truly,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

w/copies of Lease Agreement and Letter (2)

HMC/lm
cc Chief, Division of Field Operations, OME (2)
Contract Corres. E792
Chron

DAVID A. ROWLAND
8105 W 16th Place
Denver 15, Colorado

December 6, 1960

OME
DEPARTMENT OF THE INTERIOR
FEB 1 5 1961
REGION III
DENVER, COLORADO

M. R. B. Mining and Exploration Co., or
Magor Mining Company
P. O. Box 555
Green River, Utah

Dear Mr. Magor:

Reference is made to the Lease dated February 20, 1960 between the M. R. and B. Mining and Exploration Co. and myself covering the following mining claims located in Emery County, Utah.

N1/2 Dede No. 5 claim
Dede No. 1 claim
Simon J Nos. 1 and 2 claims

This is to state that I am exercising the feature set forth in Paragraph 13 of the above mentioned lease which automatically terminates the lease for failure to meet the minimum royalty obligation as stipulated in Paragraph 4. This is to advise that the above mentioned lease is cancelled.

Very truly yours,

David A. Rowland

David A. Rowland

cc:

T. W. Newell
Homer Noble

LEASE AGREEMENT

THIS AGREEMENT, Made this 20th day of February, A. D. 1960, by and between DAVID A. ROWLAND, 8105 West 16th Place, Denver, Colorado, hereinafter referred to as the "Lessor," and M.R.B. MINING AND EXPLORATION CO., a Colorado corporation, hereinafter referred to as "Lessee";

WITNESSETH:

That the Lessor, for and in consideration of the rents, royalties, covenants, and agreements hereinafter expressed to be paid, kept, and performed by the said Lessee, has leased, let, and demised, and by these presents does lease, let, and demise unto said Lessee, for a period of ten (10) years from the date hereof, the following described mining properties, to-wit:

North Half of Dede #5 Mining Claim
All of Dede #1 Mining Claim
All of Simon J #1 Mining Claim
All of Simon J #2 Mining Claim,

All located in Emery County, State of Utah, and more particularly described on a Registered Survey of the original claims dated September 2, 1954, made by the Lessor.

TO HAVE AND TO HOLD the above-described premises for the purpose of mining for a primary term from the 20th day of February, 1960, to the 20th day of February, 1970, unless this Lease is sooner terminated, surrendered, forfeited, or terminated through the violation of any of the covenants and conditions herein contained. The said Lessee, in consideration ofthe premises has covenanted, contracted, and agreed, and by these presents does covenant, contract, and agree to and with the Lessor, his heirs, executors, administrators, and assigns as follows:

1. To complete this year's assessment work on said claims by May 1, 1960, or [illegible]rfeit the rights under this Le[illegible] without further notification, and in connection therewith Lessee shall provide Lessor with proof of the accomplishment of such assessment work in the form of an Affidavit on or before the said date of May 1, 1960.

2. It is further understood and agreed that Lessee, from and after May 1, 1960, will complete annual assessment work prior to March 1st of each and every year and will furnish Lessor Affidavits of performance of labor by said date. Lessee may relinquish any of the above recited claims contained in this Lease by advising Lessor of its desire so to do, in writing, addressed to Lessor at The Colorado School of Mines, Golden, Colorado, and such advice be mailed prior to March 1st of any year.

3. Royalty: The said Lessee covenants and agrees to pay and allow the Lessor as royalty upon all ores mined, shipped, or sold from said leased premises in any manner during the life of this Lease the following amounts:

(a) A royalty of Ten Per Cent (10%) shall be paid on the gross mill returns, less haulage and government development allowance, until the Lessee has received Twenty Thousand Dollars ($20,000.00) from gross mill returns representing Five Per Cent (5%) of the ore mined, shipped, or sold; or from paragraph (b);

(b) The initial Ten Thousand (10,000) pound discovery bonus paid for operation and development of the property shall be paid to the Lessee in the event the Twenty Thousand Dollars ($20,000.00) set forth in Paragraph (a) has not been paid to the Lessee. The

difference between the Twenty Thousand Dollars ($20,000.00) due the Lessee under Paragraph (a) and the amount paid as a discovery bonus if it shall exceed the Twenty Thousand Dollars ($20,000.00) to be paid shall be divided equally between the Lessor and the Lessee;

(c) From and after the time that the Lessee has received Twenty Thousand Dollars ($20,000.00) from Five Per Cent (5%) of the ore mined, shipped, or sold or from the bonus set forth above, the Lessor shall receive a Fifteen Per Cent (15%) royalty for the remaining life of this Agreement, or any extension thereof

(d) The Lessor and Lessee agree that from the Ten Per Cent (10%) royalty to be paid to the Lessor, Five Per Cent (5%) shall be deducted and paid in reduction of the DMEA Loan that was obtained for the development of the property by the Lessor.

(e) The Lessor and Lessee agree that this Lease shall be submitted to the Vitro Uranium Company for its approval; and upon approval of this Lease by Vitro Uranium Company, the parties agree that Vitro Uranium Company shall make all payments directly to the Lessee and the Lessor, in accordance with this paragraph, at the addresses set forth herein, or such other addresses as the Lessor or the Lessee may furnish the Vitro Uranium Company for the payment of their respective shares.

[illegible]) In the event ore is sold to [illegible]y mill other than Vitro Uranium Company, instructions shall be given by Lessee to make payments in accordance with this Lease and to Lessee and Lessor directly.

4. Commencing sixty (60) days after the execution of this Agreement, Lessee shall pay to Lessor a minimum royalty of Two Hundred Dollars ($200.00) per month, payable on the first day of each month.

5. Lessee agrees to enter upon the leased premises and to explore, work, and mine the same in a good and minerlike fashion, to such extent as Lessee in its judgment deems advisable, with due regard to the reasonable development and preservation thereof, except when prevented by weather, acts of God, unavoidable casualty, or by law or the rules and regulations of any governmental regulatory body.

6. Lessee agrees to allow Lessor, or his representatives, to enter upon the premises at any reasonable time for the purpose of inspection, survey, or taking samples therefrom.

7. Lessee agrees to comply with all legal requirements of the State and Federal Mining Inspectors.

8. Lessee agrees to pay for the account of the parties hereto all required severance or production taxes and any tax measured by production and to pay all ad valorem and personal property taxes validly assessed against the premises and the equipment thereon.

9. Lessee agrees to assume all responsibility in case of accident or injury to Lessee's employees or third persons occurring in and about the leased premises, and to carry at all times Workmen's Compensation Insurance as required by the State of Utah.

[illegible] and [illegible] instrument on [illegible] on the leased premises so as to prevent the filing of liens of miners, mechanics or materialmen against said premises.

11. Lessee agrees to comply at all times during the term of this Agreement with the provisions of the laws now existing, or which may be hereafter enacted, relative to the performing of annual labor and improvements upon the leased premises, and agrees to keep and file all necessary affidavits of assessment work so done by it.

12. Lessee agrees under no circumstances to commingle any of the Lessor's ore with any other ore nor to permit such commingling.

13. Lessee agrees tomake available to Lessor all information concerning the operation of the property and particularly to give Lessor access to all drilling logs which Lessee may now have or may in the future have which might affect the value or geology of said property.

It is mutually understood and agreed that in the event of a violation of any covenant or condition herein contained to be kept and performed by Lessee, except the obligation to make minimum royalty payments as required herein, and the obligation to have the annual assessment work performed and completed by May 1, 1960, the failure of which shall automatically terminate this Lease, and thereafter annually by March 1 of each year, the Lessor shall notify Lessee of any default claimed by him under this Lease, specifying the default in substantial detail; and in the event the Lessee does not within sixty (60) days after its receipt of said notice cure such default, then at the end of such sixty-day period this Lease

shall terminate, and Lessor, or his representatives, may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force, and with or without process of law, and notice of termination shall be addressed to Lessee at Green River, Utah, by United States Registered Mail and shall be deemed given on the date of the mailing thereof.

(a) Lessee shall have the right at any time or times hereafter to terminate this Agreement upon giving to Lessor thirty (30) days' notice in writing of its intention so to do, which notice shall be addressed to the Lessor at his address set forth above by United States Registered Mail and shall be deemed given on the date of the mailing thereof.

(b) Lessee shall have the right for a period of ninety (90) days after any termination of this Agreement by cancellation, surrender or otherwise, to enter upon the leased premises and remove its machinery, equipment and personal property therefrom.

14. The Lessor and Lessee agree that they will comply with the terms and conditions of a letter from the Vitro Uranium Company addressed to the Lessor under date of April 27, 1959, and granting unto the Vitro Uranium Company the right of first refusal to purchase any and all ores produced from the said leased premises until December 31, 1966, upon the same terms and conditions as extend to third parties.

15. The Lessor covenants that he is the owner and in possession of the unpatented mining claims described herein and has not assigned or trans-

ferred his interest therein and by these presents does lease and demise unto the Lessee all of his right, title, and interest in and to said claims in accordance with the terms and conditions of this Lease.

16. The Lessor agrees that the Lessee shall be under no obligation to keep the demised premises free from water from any source or caused by any mining operations of the Lessee, either during the term of this Lease or thereafter, and the Lessor agrees that the Lessee shall have the right to keep and maintain such pumps and equipment on the demised premises for the removal of water as may be necessary during the term of this Lease and for so long thereafter as mining operations are conducted on contiguous properties operated by the Lessee or its assigns, provided that said pumping operations do not interfere with the Lessor's use of the premises.

17. It is further understood and agreed that this Lease Agreement is conditioned and contingent upon the Vitro Uranium Company approving the terms and conditions hereof.

18. The terms and provisions of this Lease Agreement shall be binding upon and inure to the benefit of the heirs, successors, assigns and legal representatives of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals on the day and year first above written.

David A. Rowland (SEAL)
DAVID A. ROWLAND
LESSOR.

MR.B. MINING AND EXPLORATION CO.

By R. F. Magoon Jr Pres
LESSEE.

ATTEST:
H. Blackley

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 20th day of February, A. D. 1960, by DAVID A. ROWLAND.

WITNESS my hand and official seal.

My commission expires: Aug. 24, 1963

Lucille T. Harlan
Notary Public

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 20th day of February, A. D. 1960, by R. F. Mayer, Jr., as President, and H. J. [illegible], as Secretary of M. R. B. MINING AND EXPLORATION CO., a Colorado corporation.

WITNESS MY hand and official seal.

My commission expires: Aug. 24, 1963

Lucille T. Harlan
Notary Public

DAVID A. ROWLAND
8105 W 16th Place
Denver 15, Colorado

December 6, 1960

OME
DEPARTMENT OF THE INTERIOR
FEB 1 1961
COLORADO

M. R. B. Mining and Exploration Co., or
Magor Mining Company
P. O. Box 555
Green River, Utah

Dear Mr. Magor:

Reference is made to the Lease dated February 20, 1960 between the M. R. and B. Mining and Exploration Co. and myself covering the following mining claims located in Emery County, Utah.

N1/2 Dede No. 5 claim
Dede No. 1 claim
Simon J Nos. 1 and 2 claims

This is to state that I am exercising the feature set forth in Paragraph 13 of the above mentioned lease which automatically terminates the lease for failure to meet the minimum royalty obligation as stipulated in Paragraph 4. This is to advise that the above mentioned lease is cancelled.

Very truly yours,

David A. Rowland

David A. Rowland

cc:

T. W. Newell
Homer Noble

LEASE AGREEMENT

THIS AGREEMENT, Made this 20th day of February, A. D. 1960, by and between DAVID A. ROWLAND, 8105 West 16th Place, Denver, Colorado, hereinafter referred to as the "Lessor," and M.R.B. MINING AND EXPLORATION CO., a Colorado corporation, hereinafter referred to as "Lessee";

WITNESSETH:

That the Lessor, for and in consideration of the rents, royalties, covenants, and agreements hereinafter expressed to be paid, kept, and performed by the said Lessee, has leased, let, and demised, and by these presents does lease, let, and demise unto said Lessee, for a period of ten (10) years from the date hereof, the following described mining properties, to-wit:

North Half of Dede #5 Mining Claim
All of Dede #1 Mining Claim
All of Simon J #1 Mining Claim
All of Simon J #2 Mining Claim,

All located in Emery County, State of Utah, and more particularly described on a Registered Survey of the original claims dated September 2, 1954, made by the Lessor.

TO HAVE AND TO HOLD the above-described premises for the purpose of mining for a primary term from the 20th day of February, 1960, to the 20th day of February, 1970, unless this Lease is sooner terminated, surrendered, forfeited, or terminated through the violation of any of the covenants and conditions herein contained. The said Lessee, in consideration ofthe premises has covenanted, contracted, and agreed, and by these presents does covenant, contract, and agree to and with the Lessor, his heirs, executors, administrators, and assigns as follows:

1. To complete this year's assessment work on said claims by May 1, 1960, or forfeit the rights under this Lease without further notification, and in connection therewith Lessee shall provide Lessor with proof of the accomplishment of such assessment work in the form of an Affidavit on or before the said date of May 1, 1960.

2. It is further understood and agreed that Lessee, from and after May 1, 1960, will complete annual assessment work prior to March 1st of each and every year and will furnish Lessor Affidavits of performance of labor by said date. Lessee may relinquish any of the above recited claims contained in this Lease by advising Lessor of its desire so to do, in writing, addressed to Lessor at The Colorado School of Mines, Golden, Colorado, and such advice be mailed prior to March 1st of any year.

3. Royalty: The said Lessee covenants and agrees to pay and allow the Lessor as royalty upon all ores mined, shipped, or sold from said leased premises in any manner during the life of this Lease the following amounts:

(a) A royalty of Ten Per Cent (10%) shall be paid on the gross mill returns, less haulage and government development allowance, until the Lessee has received Twenty Thousand Dollars ($20,000.00) from gross mill returns representing Five Per Cent (5%) of the ore mined, shipped, or sold; or from paragraph (b);

(b) The initial Ten Thousand (10,000) pound discovery bonus paid for operation and development of the property shall be paid to the Lessee in the event the Twenty Thousand Dollars ($20,000.00) set forth in Paragraph (a) has not been paid to the Lessee. The

(f) In the event ore is sold to any mill other than Vitro Uranium Company, instructions shall be given by Lessee to make payments in accordance with this Lease and to Lessee and Lessor directly.

4. Commencing sixty (60) days after the execution of this Agreement, Lessee shall pay to Lessor a minimum royalty of Two Hundred Dollars ($200.00) per month, payable on the first day of each month.

5. Lessee agrees to enter upon the leased premises and to explore, work, and mine the same in a good and minerlike fashion, to such extent as Lessee in its judgment deems advisable, with due regard to the reasonable development and preservation thereof, except when prevented by weather, acts of God, unavoidable casualty, or by law or the rules and regulations of any governmental regulatory body.

6. Lessee agrees to allow Lessor, or his representatives, to enter upon the premises at any reasonable time for the purpose of inspection, survey, or taking samples therefrom.

7. Lessee agrees to comply with all legal requirements of the State and Federal Mining Inspectors.

8. Lessee agrees to pay for the account of the parties hereto all required severance or production taxes and any tax measured by production and to pay all ad valorem and personal property taxes validly assessed against the premises and the equipment thereon.

9. Lessee agrees to assume all responsibility in case of accident or injury to Lessee's employees or third persons occurring in and about the leased premises, and to carry at all times Workmen's Compensation Insurance as required by the State of Utah.

by it for labor and materials furnished or used on the leased premises so as to prevent the filing of liens of miners, mechanics or materialmen against said premises.

11. Lessee agrees to comply at all times during the term of this Agreement with the provisions of the laws now existing, or which may be hereafter enacted, relative to the performing of annual labor and improvements upon the leased premises, and agrees to keep and file all necessary affidavits of assessment work so done by it.

12. Lessee agrees under no circumstances to commingle any of the Lessor's ore with any other ore nor to permit such commingling.

13. Lessee agrees tomake available to Lessor all information concerning the operation of the property and particularly to give Lessor access to all drilling logs which Lessee may now have or may in the future have which might affect the value or geology of said property.

It is mutually understood and agreed that in the event of a violation of any covenant or condition herein contained to be kept and performed by Lessee, except the obligation to make minimum royalty payments as required herein, and the obligation to have the annual assessment work performed and completed by May 1, 1960, the failure of which shall automatically terminate this Lease, and thereafter annually by March 1 of each year, the Lessor shall notify Lessee of any default claimed by him under this Lease, specifying the default in substantial detail; and in the event the Lessee does not within sixty (60) days after its receipt of said notice cure such default, then at the end of such sixty-day period this Lease

shall terminate, and Lessor, or his representatives, may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force, and with or without process of law, and notice of termination shall be addressed to Lessee at Green River, Utah, by United States Registered Mail and shall be deemed given on the date of the mailing thereof.

(a) Lessee shall have the right at any time or times hereafter to terminate this Agreement upon giving to Lessor thirty (30) days' notice in writing of its intention so to do, which notice shall be addressed to the Lessor at his address set forth above by United States Registered Mail and shall be deemed given on the date of the mailing thereof.

(b) Lessee shall have the right for a period of ninety (90) days after any termination of this Agreement by cancellation, surrender or otherwise, to enter upon the leased premises and remove its machinery, equipment and personal property therefrom.

14. The Lessor and Lessee agree that they will comply with the terms and conditions of a letter from the Vitro Uranium Company addressed to the Lessor under date of April 27, 1959, and granting unto the Vitro Uranium Company the right of first refusal to purchase any and all ores produced from the said leased premises until December 31, 1966, upon the same terms and conditions as extend to third parties.

15. The Lessor covenants that he is the owner and in possession of the unpatented mining claims described herein and has not assigned or trans-

ferred his interest therein and by these presents does lease and demise unto the Lessee all of his right, title, and interest in and to said claims in accordance with the terms and conditions of this Lease.

16. The Lessor agrees that the Lessee shall be under no obligation to keep the demised premises free from water from any source or caused by any mining operations of the Lessee, either during the term of this Lease or thereafter, and the Lessor agrees that the Lessee shall have the right to keep and maintain such pumps and equipment on the demised premises for the removal of water as may be necessary during the term of this Lease and for so long thereafter as mining operations are conducted on contiguous properties operated by the Lessee or its assigns, provided that said pumping operations do not interfere with the Lessor's use of the premises.

17. It is further understood and agreed that this Lease Agreement is conditioned and contingent upon the Vitro Uranium Company approving the terms and conditions hereof.

18. The terms and provisions of this Lease Agreement shall be binding upon and inure to the benefit of the heirs, successors, assigns and legal representatives of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals on the day and year first above written.

David A. Rowland (SEAL)
DAVID A. ROWLAND
LESSOR.

MR.B. MINING AND EXPLORATION CO.

By R. G. Magoffin Pres
LESSEE.

ATTEST:
H. Blackley

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 20th day of February, A. D. 1960, by DAVID A. ROWLAND.

WITNESS my hand and official seal.

My commission expires: Aug. 24, 1963

Lucille T. Harlan
Notary Public

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 20th day of February, A. D. 1960, by R. F. Mayer, Jr., as President, and H. J. Blackburn, as Secretary of M. R. B. MINING AND EXPLORATION CO., a Colorado corporation.

WITNESS MY hand and official seal.

My commission expires: Aug. 24, 1963

Lucille T. Harlan
Notary Public

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado

July 14, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket DMEA 3620 (Uranium) Contract Idm-E792, Uranium Prospectors Company, Ltd. (Dede, et al. claims) Emery County, Utah

left-hand side

Enclosed are two copies of an agreement to lease on the captioned property.

The Operator forwarded this office three copies of this lease in response to our letter to him dated June 11, 1959, copies of which were forwarded your office.

J. W. Townsend

J. W. Townsend

Enclosures

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUL 17 1959

DATE	INITIALS	CODE
7-17	gad	VVO
		500
		221

Building 20 - Federal Center
Denver 25, Colorado
December 22, 1959

Mr. David A. Rowland
703 15th Avenue
San Francisco, California

Re: Docket IMEA 3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Company, Ltd.
(Dade, et al. claims)
Emery County, Utah

Dear Mr. Rowland:

Will you please advise if the lease to the Uranium Prospectors Company, Ltd., signed by you on the 13th day of June 1957, is still in effect. Also what is the present status of the property.

Very truly yours,

Original signed by

J. W. Townsend
Executive Officer, OME
Field Team, Region III

HMC:ltm

cc: Chmn. Op. Comm. (2)
Roy. Corres. E792
Chron.

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 28 1959

DATE		
12/28	C	220
"		800
1/4/60	Moffitt	~~500~~
		225

OFFICE OF MINERALS EXPLORATION
BLDG. 20, FEDERAL CENTER
DENVER 25, COLORADO

December 28, 1959

Memorandum To the Files

Subject: Docket No. DMEA 3620 (Uranium) Contract Idm-E792
Uranium Prospectors Company, Ltd. (Dede, et al. claims)
Emery County, Utah

Mr. Rowland phoned this office and stated that the property is not being worked at the present time, and Vitro Corporation has pulled out. He said that he contemplates driving 1200 feet of drift from a neighboring shaft to reach the ore discovered by DMEA drilling if he can raise the money.

He promised to advise this office every six months the status of the property.

H. M. Connors

His new address is: David A. Rowland
c/o Colorado School of Mines
Golden, Colorado

HMC:ltm

cc: Chmn. Op. Comm. (2)
Roy. Corres.
Chron.

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 31 1959

DATE	INITIALS	CODE
12/31	RCW	225
1/4	EEF	800
	~~Murphy~~	~~500~~
		225

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
6/22	G	220
		700

JUN 22 1959

Memorandum

To: Mr. Donald T. Finch, OME Auditor

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: Docket No. DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Contract No. Idm-E792

Your Report of Royalty Review on the subject contract is acceptable and distribution of the regional copies is authorized.

EDTalbert/ama
June 22, 1959

Copies to: Docket
Director's Reading File
Code 800

43683

OFFICIAL FILE COPY O. M. E.		
RECEIVED JUN 15 1959		
DATE	INITIALS	CODE
6/15	a	220
6/16	[illegible]	800
6/17	[illegible]	700

22A New Customhouse
Denver 2, Colorado

June 11, 1959

Mr. David A. Rowland
8105 W. 16th Place
Denver 15, Colorado

Re: Docket DMEA 3600 (Uranium)
Contract Lim-2792
Uranium Prospectors Co., Ltd.
(Dade, Simon J., and Feeney
mining claims)
Emery County, Utah

Dear Mr. Rowland:

This will acknowledge receipt of your letter of June 10, 1959, giving a resume of transactions concerning the captioned claims.

Please forward this office three copies of each lease now in effect on the property, except the Todd Lease.

In accordance with your request, attached is a photostat of the Consent to Lien signed by you April 9, 1955.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Executive Officer
OME Field Team, Region III

Enclosure

HMC:jy

cc: Chm. Op. Comm. (2)
Roy. Corres. E792
Chron.

DAVID A. ROWLAND
~~P. O. BOX 7047~~
~~UNIVERSITY STATION~~
~~AUSTIN 12, TEXAS~~

JUN 1 1959
DENVER COLORADO

[illegible] 16th Place
[illegible] 15, Colorado

[illegible] 10, [illegible]

Mr. [illegible]
[illegible]
[illegible] III
[illegible]
Denver [illegible], Colorado

Dear Mr. Townsend:

[illegible] your recent request, I submit the following resume of transactions made concerning the Dodo, Simon J. and Peewee mining claims located in Emery County, Utah. I believe, however, the Salt Lake Office of the USBM has been receiving information concerning these claims from the Vitro Uranium Company of the same City.

The Vitro Uranium Company acquired the holdings of the Uranium Prospectors Company, Ltd., in early 1955. Originally, the U. P. Co. Ltd. was a subsidiary of Vitro Uranium Company. However, on July 31, 1958, the U.P.Co., Ltd. was dissolved and the Vitro Corporation of America assumed the obligations of my lease with the U. P. Co. On April 27, 1959 a portion of the claims contained in this lease agreement were released to me and are the ones now leased to the Todd Engineering Company. I have a letter stating the remainder of this group will be released upon my request. Vitro has first call for the ore produced from these claims for their mill in Salt Lake City, however.

On March 21, 1957, the Vitro Uranium Company terminated the lease in existance at that time. A new lease was made with the same company covering the same claims with the exception of the Peewee #3 claim on June 10, 1957.

The future of this property may depend to a large extent on the ability of Mr. Todd to acquire financial assistance for development and exploration work.

A conflict with the Four Corners Company's adjacent property has arisen with a portion of the above mentioned claims in that they have moved the boundary of one claim and staked another full claim over these claims. Efforts are being made to eliminate this conflict.

Kindly send a copy of the Consent to Lien, signed by me on April 9, 1955, which you referred to in your letter of June 2, 1959.

Very truly yours,

David A. Rowland

David A. Rowland

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 15 1959

DATE	INITIALS	CODE

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/9	Murphy	700
6/9	Howe	700
6/9	[illegible]	130
6/9	[illegible]	110
6/10	[illegible]	220
		700
6/9	[illegible]	130
6/9	[illegible]	(130

TELETYPE

[illegible] xpenses, Office of Minerals Exploration, Interior, 1959

JUN 9 1959

Mr. [illegible]
[illegible]
224 NEW [illegible]
DENVER, COLORADO

REFERRED JUNE 2, DMEA-3820, [illegible] ENGINEERING COMPANY SHOULD [illegible] OF [illegible]. IF NOT AVAILABLE, [illegible] ALSO, TODD SHOULD BE INFORMED OF THE GOVERNMENT'S LIEN ON THE LEASED CLAIMS.

George C. Selfridge

(242)

[illegible]
[illegible] OPERATING [illegible]

F.Murphy/fw-6/9/59

cc: Docket
Dir.Read.File
Operating Com'te
Mr. Kiilsgaard, USGS
700
Mr. Murphy
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 5 1959

DATE	INITIALS	
6/5	C	210
6/8	[illegible]	700

AIR MAIL

June 2, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket DMEA 3620 (Uranium) Contract Idm-E792, Uranium Prospectors Co., Ltd. (Dede, Peewee and Simon J. claims) Emery County, Utah

Enclosed are two copies of the following:

1. Letter from Arthur Todd dated May 29, 1959, requesting a copy of Operator's final report.

2. Our letter to the owner, dated June 2, 1959.

3. Lease Agreement dated April 30, 1959, to the Todd Engineering Company.

Will you please teletype concurrence concerning Todd's request that we provide him a copy of the Operator's final report.

J. W. Townsend

J. W. Townsend

Enclosures

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 5 1959

DATE	INITIALS	CODE

May 29, 1959

Bureau of Mines
New Customs Building
Denver Colorado

Gentlemen:

Attached please find a lease agreement between David Rowland 8105 West 16th Place, Denver Colorado LESSOR, and Todd Engineering Company, 3701 Estes Street Wheat Ridge Colorado of:

8½ Dede #5	Mining Claims
Dede #6	Mining Claims
Dede #7	Mining Claims
Dede # 8	Mining Claims

In order to facilitate production on the above recited claims I am requesting a copy of the final report presented to your office noted as file number IDME 792 by Uranium Prospectors Ltd. "Lease Operators Final Report".

Thank you,

Arthur Todd

TODD ENGINEERING COMPANY

ed

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 5 1959

DATE	INITIALS	CODE

20th New Customhouse
Denver 2, Colorado
June 2, 1959

Mr. David Rowland
[illegible] West 16th Place
Denver, Colorado

Re: Docket [illegible] (Uranium)
Contract Km-E792
Uranium Prospectors Co., Ltd.
(Dodo, Pawnee and Simon J. claims)
Emery County, Utah

Dear Mr. Rowland:

It is noted in the Lease Agreement between you and the Todd Engineering Company that no provision was made for the lessee to pay royalty on ore produced to the Government, as provided for in the captioned contract. We presume, therefore, that it is your intention to pay any royalty which might become due the Government out of your own pocket.

The Consent to Lien, signed by you April 9, 1955, granted the Government a lien upon all of your right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production provided for by the contract. It further provided that you would neither commit any act nor assert any claim in conflict with the provisions of the Consent to Lien; and to give advance notice of the Government's rights under the Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of your right, title, or interest in the land.

The Todd Lease covers only a few of the mining claims subordinated to the Government, and it is stated in the lease that the remaining claims are now under lease to other individuals and organizations. Please forward this office two copies of all leases, other than the Todd Lease, covering all mining claims subordinated to the Government in the captioned contract.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Executive Officer
OME Field Team, Region III

HMC:jy
cc: Chm. Op. Comm. (2)
Roy. Corres. E792
Chron.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 5 1959

DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

June 2, 1959

Mr. Arthur Todd
Todd Engineering Company
3701 Eaton Street
Wheatridge, Colorado

Re: Docket IMEA 3620 (Uranium)
Contract Idm-E792
Uranium Prospectors Co., Ltd.
(Bade, Peewee and Simon J.
claims)
Emery County, Utah

Dear Mr. Todd:

Enclosed is the Lease Agreement dated April 30, 1959, between David Rowland and your Company.

We have requested teletype advice from the Washington Office concerning your request for a copy of the Operator's final report, and you will be notified of their decision.

Very truly yours,

Electronically signed by
J. W. TOWNSEND

J. W. Townsend
Executive Officer
OME Field Team, Region XII

Enclosure

HMC:jy

cc: Chm. Op. Comm. (2)
Roy. Corres. E792
Chron.

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

RECEIVED
JUN 27 1956

224 New Customhouse
Denver 2, Colorado

June 25, 1956

Memorandum

To: Secretary, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd. (Dede, Peewee and Simon J. claim groups), Emery County, Utah

Enclosed is a photocopy of letter dated June 27, 1956 from W. B. Hall, President, Uranium Prospectors Co., Ltd. in reply to our letters of May 17 and June 13, 1956.

W. M. Traver

W. M. Traver

Enclosure

URANIUM PROSPECTORS CO. LTD.

Subsidiary of CORPORATION OF AMERICA

BOX 67 - 600 WEST 33rd SO. — SALT LAKE CITY 15, UTAH

RECEIVED
JUN 2 7 1956

June 22, 1956

DMEA
Date Rec'd.
JUN 25 1956

BUREAU OF MINES
Denver, Colorado

United States Department of the
Interior
224 New Customhouse
Denver 2, Colorado

Attention: Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Dear Mr. Traver:

I have your letter of June 13 which requests a reply to your letter of May 17 concerning the DMEA contract Idm-E792.

The Uranium Prospectors Company is aware of the indebtedness to the government under this contract and will pay the required royalties on production when and if shipped from the property.

Yours very truly,

URANIUM PROSPECTORS CO. LTD.

W B Hall

W. B. Hall
President

WBH:jl

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

RECEIVED
JUN 15 1956

224 New Customhouse
Denver 2, Colorado

June 13, 1956

Mr. W. B. Hall, President
Uranium Prospectors Company, Ltd.
600 33rd South Street
Salt Lake City, Utah

Re: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd. (Dode, Peewee, and Simon J. claim groups) Emery County, Utah

Dear Mr. Hall:

We have received no reply to our letter of May 17, 1956, wherein you were requested to furnish us a statement to the effect that the new officials and directors of your company are: 1) aware of the indebtedness to the Government resulting from Contract Idm-E792, and 2) will pay royalty on production when and if shipped from the property.

You are requested to give this matter your immediate attention.

Yours very truly,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

MHM/vj
cc: Royalty File E792
Correspondence file E792
Sec. Opr. Comm. (2)
S. R. Wilson
Marshall
Chron.

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

RECEIVED
MAY 21 1956

224 New Customhouse
Denver 2, Colorado

May 17, 1956

Mr. W. B. Hall, President
Uranium Prospectors Company, Ltd.
600 33rd South Street
Salt Lake City, Utah

Re: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd. (Dode, Peewee, and Simon J. claim groups), Emery County, Utah

Dear Mr. Hall:

As per your request by telephone on this date we are enclosing the two copies of DMEA Order 1-Amended which were inadvertently omitted from our letter of May 8, 1956.

Further reference is made to the second page of your March 8, 1956 letter which states in part:

> "----- to supervise the mining and exploration work on the properties belonging to the Uranium Prospectors Company. This will include the supervision of the outstanding DMEA contracts -- Idm-E877, Emery County, Utah, Docket DMEA 3767; and Contract Idm-E808, Montrose County, Colorado, Docket DMEA 3597."

It was the intent of our letter of May 8, 1956 to obtain from you a qualifying statement that properties subordinated to the Government under Docket DMEA 3620, Contract Idm-E792 also should have been included in the above quotation.

Please furnish us a statement to the effect that the new officials and directors of Uranium Prospectors Co., Ltd. are aware of the indebtedness to the Government resulting from Contract Idm-E792 and that royalty payments will be made when and if ore is shipped from the property.

This letter will also constitute confirmation that no royalty payments have been received by this agency to be applied to the repayment of the Government's loan (Contract Idm-E792) which was established at $20,945.14 by letter of November 25, 1955 addressed to Mr. D. C. Beringer from Acting DMEA Administrator, Frank E. Johnson.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

RDB/vj

cc: Royalty File E792
Correspondence File E792
Sec. Opr. Comm. (2)
S. R. Wilson
Chron.

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

RECEIVED
MAY 10 1956

May 8, 1956

224 New Customhouse
Denver 2, Colorado

Mr. W. B. Hall, President
Vitro Uranium Company
600 33rd South Street
Salt Lake City, Utah

Re: Royalty payments, Docket DMEA 3620 (Uranium) Contract Idm-E792, Uranium Prospectors Company Ltd. (Dede, Peewee, and Simon J. claim groups) Emery County, Utah

Dear Mr. Hall:

Reference is made to your letter of March 8, 1956 regarding supervision of mining and exploration work under DMEA Contracts Idm-E808 and Idm-E877. On April 13, 1956 we asked Mr. D. C. Deringer, former Vice President of Uranium Prospectors Company, Ltd. if DMEA Contract Idm-E792 was also now under the control of Vitro Uranium Company and if Vitro Uranium Company was to be liable for payment of royalties due the Government in compliance with terms of Contract Idm-E792.

Mr. Deringer informed us on April 22, 1956 that it was his understanding that Vitro Uranium Company now controls Uranium Prospectors Co., Ltd. by virtue of purchase of 100 - percent of Uranium Prospectors Company stock. Vitro Uranium Company was furnished a copy of Mr. Deringer's letter.

Your letter of March 8, 1956 makes no mention that Vitro Uranium Company assumed the liabilities of Uranium Prospectors Company, Ltd. under Contract Idm-E792. For our records we request you to substantiate this in writing and we would appreciate receiving five copies besides the original. Please also furnish us the mailing address and name of official to which future royalty correspondence concerning DMEA Contract Idm-E792 is to be sent.

According to the terms of Contract Idm-E792, royalty is due the Government on all production from the claims described in Article 2 of the contract from April 28, 1955, the date of the contract until the sum of $20,945.14 is paid, or until April 28, 1965, whichever occurs first.

Enclosed are two copies of DMEA Order-1 Amended, Section 10 of which explains the method to be used to compute the Government's royalty. If ore is produced from the subject property, we request that we be furnished four copies of each settlement sheet. Checks in payment of DMEA royalty are to be drawn payable to the Defense Minerals Exploration Administration and sent with settlement sheets to the Executive Officer, DMEA Region III, Room 224 New Customhouse, Denver 2, Colorado.

Yours very truly,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

RDB:ab

cc: Roy. File E792 w/orig Deringer's letter
Corresp. E792
Sec. Op. Comm. (2)
S. R. Wilson
Chron.

DEWITT C. DERINGER
MINING ENGINEER
1808 NINETEENTH STREET
GOLDEN, COLORADO

DMEA
Rec'd.
APR 23 1956
BUREAU OF MINES
Denver, Colorado

April 22, 1956

RECEIVED
MAY 10 1956

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

Re: Docket DMEA 3620 (Uranium)
Contract Idm-E792, Uranium Prosp.
Co. Ltd. Emery Countyb Utah.

Dear Mr. Traver:

Your letter of April 13 above subject was waiting my return to Golden for reply.

If my understanding is correct, Vitro Uranium Company purchased all the outstanding stock of Uranium Prospectors Co. Ltd. and thus gained complete control of the company. While the ownership has changed, there is no alteration in the identity of Uranium Prospectors Co. Ltd., and consequently there is no change in application of contracts or liabilities or payment of Government's royalty on future production. Inasmuch as Vitro Uranium Company will receive a copy of this letter, should they not concur in the above statement you should receive a correction directly from them.

Sincerely yours,

D. W. C. Deringer

cc Vitro Uranium Company
600 33rd South Street
Salt Lake City Utah.

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

RECEIVED
APR 16 1956

224 New Customhouse
Denver 2, Colorado

April 13, 1956

Mr. B. C. Beringer, Vice President
1808 Nineteenth Street
Golden, Colorado

Re: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd. (Bede, Peewee, and Simon J. groups) Emery County, Utah

Dear Mr. Beringer:

By letter dated March 8, 1956, W. B. Hall, General Manager of Vitro Uranium Company informed us that supervision of future mining and exploration work for DMEA Contracts Idm-E808 and Idm-E877 will be under the control of Vitro Uranium Company but that operations will still be conducted under the present name of Uranium Prospectors Company, Ltd. Please advise if this agreement also applies to Contract Idm-E792 which has been completed and which was certified as a discovery on November 25, 1955. Will Vitro Uranium Company be liable for the payment of the Government's royalty on future production from this property or will this remain the duty of Uranium Prospectors Company, Ltd.

Your early reply to these questions will be appreciated.

Yours very truly,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

RDB/vj

cc: Royalty File E792
Correspondence File E792
Sec. Opr. Comm. (2)
S. R. Wilson
Berkenkotter
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

MAR 20 1956

Memorandum

To: The Administrator, DMEA
Attention: Chief, Rare and Miscellaneous Metals Division

From: Associate Solicitor, Division of Mineral Resources

Subject: Docket No. DMEA-3497 - Contract No. Idm-E808
Docket No. DMEA-3620 - Contract No. Idm-E792
Docket No. DMEA-3767 - Contract No. Idm-E877
(Uranium)
Uranium Prospectors Company, Ltd.

Mr. Ellis' memorandum, dated March 15, 1956, asked whether any action might be necessary in order to protect the Government's interests under the three subject contracts because of the acquisition by Vitro Uranium Company, a Delaware corporation, of all stock and debentures of the Operator, Uranium Prospectors Company, Ltd., and election of new directors and officers for the latter company.

The letter, dated March 8, 1956, from Vitro Uranium Company, referred to in Mr. Ellis' memorandum, explained that the Operator still exists as a separate entity and still retains its interests in all the land which is the subject of the exploration contract. Accordingly, in our view, no action need be taken by the Government in connection with the transaction discussed in the first paragraph of this memorandum.

Robert P. Dwyer

700

FILE COPY
Surname:

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

March 15, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

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

Subject: Sale of stock and debentures of the Uranium Prospectors Co., Ltd. to the Vitro Uranium Company, and effect on the DMEA-contracts

Re: Uranium Prospectors Co., Ltd.

1) Docket No. DMEA-3767 (Uranium)
Contract No. Idm-8877
Emery County, Utah

2) Docket No. DMEA-3497 (Uranium)
Contract No. Idm-8808
Montrose County, Colorado

3) Docket No. DMEA-3620 (Uranium)
Contract No. Idm-4792
Emery County, Utah

The work under contracts Idm-8877 and 808 has not been completed to date. Work under contract Idm-8792 has been completed and a Certificate of Discovery issued.

Vitro Uranium Company, having purchased all the stock and debentures of Uranium Prospectors Co., Ltd., elected a new set of Directors and Administrators. However, in a letter, dated March 8, 1956, from Vitro Uranium Company, it appears that the Uranium Prospectors Company will retain its name and title to the claims encumbered under the three DMEA contracts.

Will you kindly advise this office what action might be necessary to protect the Government's interest as the three DMEA contracts were signed by the replaced Vice-President and the Secretary of the original group of Operators. For your information, the accompanying dockets contain self-explanatory letters exchanged between Mr. Trover, DMEA, R. C. Duringer, V.P., Uranium Prospectors, Ltd., and Vitro Uranium Company, relating to the captioned contracts.

urphy/iam 3-15-56
:c: Respective dockets, 3767; 3497; 3620
Code 700 " " "
Mr. Murphy

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

COPY

1-23-56 dzm

Denver Federal Center
Denver, Colorado

January 17, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Gamma-ray log interpretations

Enclosed are four copies of gamma-ray log interpretations on the following DMEA exploration projects.

DMEA Docket

3514 - Climax Uranium Company, Beaver Mesa

3660 - Mid-Continent Uranium Company

3767 - Uranium Prospectors Co., Ltd., Jack Rabbit claims

~~3666~~ - Uranium Prospectors Co., Ltd., Private holes
refers to DMEA-3620

W. M. Traver

Enclosures

Copy to: Shaw (2)
Hasler
Harshman
~~Townsend~~-Corresp.
Chron.

ENHarshman:arh

copy sent to Kilsgaard - 1-24-56

Private Holes of DMEA Interest
Uranium Prospectors Co. LTD
Holes near Up-Shaft
San Rafael Reef Area, Utah

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
UPC-No. 1	300.0	None	Caved		Reputed to have		ore					Not Logged
UPC-No. 2	294.0	None	5.0	174.1	64.6	65.5	0.9	260			<0.010	
					66.0	66.8	0.8	330			<0.010	
					67.2	68.5	1.3	380			<0.010	
					69.1	71.7	2.6	840			0.019	
UPC-No. 3	291.0	None	5.0	207.2	Barren							
UPC-No. 4	263.0	None	5.0	177.0	66.1	67.0	0.9	1300			0.034	
					72.7	73.4	0.7	1200			0.037	
					138.3	141.3	3.0	300			<0.010	
					144.1	146.5	2.4	420			<0.010	

* From top to bottom depths

Private Holes of DMEA Interest
Uranium Prospectors Co. LTD
Holes near Up-Shaft
San Rafael Reef Area, Utah

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
UPC-No. 1	300.0	None	Caved	Reputed to have	ore					Not Logged
UPC-No. 2	294.0	None	5.0 - 174.1	64.6 - 65.5	0.9	260			<0.010	
				66.0 - 66.8	0.8	330			<0.010	
				67.2 68.5	1.3	380			<0.010	
				69.1 - 71.7	2.6	840			0.019	
UPC-No. 3	291.0	None	5.0 - 207.2	Barren						
UPC-No. 4	263.0	None	5.0 - 177.0	66.1 - 67.0	0.9	1300			0.034	
				72.7 - 73.4	0.7	1200			0.037	
				138.3 - 141.3	3.0	300			<0.010	
				144.1 - 146.5	2.4	420			<0.010	

* From top to bottom depths

Private Holes of DMEA Interest
Uranium Prospectors Co. LTD
Holes near Up-Shaft
San Rafael Reef Area, Utah

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
UPC-No. 1	300.0	None	Caved		Reputed to have		ore					Not Logged
UPC-No. 2	294.0	None	5.0	174.1	64.6	65.5	0.9	260			<0.010	
					66.0	66.8	0.8	330			<0.010	
					67.2	68.5	1.3	380			<0.010	
					69.1	71.7	2.6	840			0.019	
UPC-No. 3	291.0	None	5.0	207.2	Barren							
UPC-No. 4	263.0	None	5.0	177.0	66.1	67.0	0.9	1300			0.034	
					72.7	73.4	0.7	1200			0.037	
					138.3	141.3	3.0	300			<0.010	
					144.1	146.5	2.4	420			<0.010	

* From top to bottom depths

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

RECEIVED
JAN 16 1956

224 New Customhouse
Denver 2, Colorado

January 12, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah

Enclosed are the original and three copies of a memorandum from E. N. Harshman, dated January 11, 1956, to which is attached "Table showing depth and grade of anomalies detected in holes drilled under DMEA Contract Idm-E792."

The memorandum and attachment are to supplement and correct the joint engineering and geologic report submitted under item 2 of our memorandum of December 14, 1955.

W. M. Traver

W. M. Traver

Enclosures

F.T. Suppl. Report

IN REPLY REFER TO:
DMEA
Date Rec'd.
JAN 12 1956
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

January 11, 1956

RECEIVED
JAN 16 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3620 (Uranium), contract Idm-E 792, Uranium Prospectors, Ltd., Emery County, Utah

Enclosed are the original and nine copies of a table summarizing the results of drilling under the subject contract. It was requested from the Geological Survey in Grand Junction and it is to be used as a supplement to the final project report which contained no data on the uranium content and depth of mineralized or ore grade material found in the holes drilled under the subject contract.

The following corrections should be made to the final joint engineering and geologic report:

Page 7, paragraph 2, line 3 "300 feet" should read "30 feet"

Page 10, paragraph 5, line 1 "Uranium Co." should read "Uranium Corp."

Figure 1, the location of the property should be in sections 15 and 22 instead of sections 14 and 23 as shown.

A copy of the enclosed drilling data and the requested changes in the final report should be distributed for attachment to each copy of the final report.

E. N. Harshman
E. N. Harshman
Member, Field Team

Enclosures (10)

Table showing depth and grade of anomalies detected in holes drilled under DMEA contract Idm-E 792, Uranium Prospectors Company, Ltd.

DMEA Hole No.	Total Depth	From	To	Thickness	Grade eU_3O_8	Ore Min Barren
A-1	397.0	209.5	210.1	0.6	e0.65	Min
—		244.5	249.0	5.5	> e0.005	
A-2	386.0					Barren
A-3	420.0	378.8	379.9	1.1	0.33	Ore
A-4	500.0					Barren
A-5	446.0	443.8	444.1	0.3	0.96	Ore
—		444.9	445.2	0.3	0.82	
A-5a	487.0	439.8	440.8	1.0	e0.30	Ore
		440.8	443.5	2.7	e0.014	
		443.5	444.2	0.7	e1.5	
		446.4	447.3	0.9	e0.080	
		447.8	448.7	0.9	e0.10	
A-6	489.0	446.0	447.1	1.1	0.18	Ore
		450.5	451.1	0.6	0.07	
A-7	494.0					Barren
A-8	515.0	475.8	476.1	0.3	0.03	Ore
		476.4	477.4	1.0	0.32	
		477.4	478.2	0.8	0.15	
A-9	464.0					Barren
A-10	515.0	467.4	467.5	0.1	2.37	Min
		478.6	478.8	0.2	0.08	
A-11	412.0					Barren
A-12	474.0	448.7	449.4	0.7	e0.49	Min
A-13	503.0	446.7	446.8	0.1	0.05	Min
A-14	372.0	337.8	338.0	0.2	0.01	Min
A-15	656.0	457.3	457.9	0.6	0.02	Min
B-1	502.0	475.1	476.6	1.5	e0.13	Ore
B-2	500.0	438.0	439.2	1.2	e0.045	Min
B-3	482.0	437.3	438.8	1.5	e0.17	Ore
		446.0	451.5	5.5	e0.18	
B-4	489.0	460.2	461.7	1.5	e0.09	Min
B-7	411.0	376.6	377.9	1.3	e0.10	Ore
		380.0	380.9	0.9	e0.07	
B-8	415.0	374.5	375.6	1.1	e0.019	Min
		376.3	378.3	2.0	e0.010	
—		378.3	381.5	3.2	< e0.005	
B-9	416.0	367.4	370.2	2.8	< e0.005	Barren
B-10	414.0	378.0	380.0	2.0	< e0.005	Barren

Table showing depth and grade of anomalies detected in holes drilled under DMEA contract Idm-E 792, Uranium Prospectors Company, Ltd.

DMEA Hole No.	Total Depth	From	To	Thickness	Grade eU_3O_8	Ore Min Barren
A-1	397.0	209.5	210.1	0.6	e0.65	Min
		244.5	249.0	5.5	>e0.005	
A-2	386.0					Barren
A-3	480.0	378.8	379.9	1.1	0.33	Ore
A-4	500.0					Barren
A-5	446.0	443.8	444.1	0.3	0.96	Ore
		444.9	445.2	0.3	0.82	
A-5a	487.0	439.8	440.8	1.0	e0.30	Ore
		440.8	443.5	2.7	e0.014	
		443.5	444.2	0.7	e1.5	
		446.4	447.3	0.9	e0.080	
		447.8	448.7	0.9	e0.10	
A-6	489.0	446.0	447.1	1.1	0.18	Ore
		450.5	451.1	0.6	0.07	
A-7	494.0					Barren
A-8	515.0	475.8	476.1	0.3	0.03	Ore
		476.4	477.4	1.0	0.22	
		477.4	478.2	0.8	0.15	
A-9	464.0					Barren
A-10	515.0	467.4	467.5	0.1	2.37	Min
		478.6	478.8	0.2	0.08	
A-11	412.0					Barren
A-12	474.0	448.7	449.4	0.7	e0.49	Min
A-13	503.0	446.7	446.8	0.1	0.05	Min
A-14	372.0	337.8	338.0	0.2	0.01	Min
A-15	656.0	457.3	457.9	0.6	0.02	Min
B-1	502.0	475.1	476.6	1.5	e0.13	Ore
B-2	500.0	438.0	439.2	1.2	e0.045	Min
B-3	482.0	437.3	438.8	1.5	e0.17	Ore
		446.0	451.5	5.5	e0.18	
B-4	489.0	460.2	461.7	1.5	e0.09	Min
B-7	411.0	376.6	377.9	1.3	e0.10	Ore
		380.0	380.9	0.9	e0.07	
B-8	415.0	374.5	375.6	1.1	e0.019	Min
		376.3	378.3	2.0	e0.010	
		378.3	381.5	3.2	<e0.005	
B-9	416.0	367.4	370.2	2.8	<e0.005	Barren
B-10	414.0	378.0	380.0	2.0	<e0.005	Barren

IN REPLY REFER TO:

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

December 29, 1955

Re: DMEA 3620 Idm-E792
Uranium Prospectors Co.,
Dede, Pee Wee, and
Simon J. Groups
Emery County, Utah
$32,740.50 -- Uranium

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Final Field Team report

The contract was approved for the expenditure of $32,740.50 of which $27,926.35 was spent in doing:

Item	Unit	Unit Cost	Total Units	Total Costs
Bulldozer operation	hour	$12.00	23-5/6	$ 286.00
Core drilling	foot	3.30	1,582	5,220.60
Noncore drilling 0' - 300'	foot	1.50	6,735	10,102.50
Noncore drilling 300' - 650'	foot	1.75	2,396	4,193.00
Incidental allowance	foot	.75	10,713	8,034.75
Chemical analyses	sample	5.00	18	90.00
				$27,926.85

The drilling resulted in 7 ore holes (1 foot or more of 0.10% U_3O_8 or better) and 9 mineralized holes. 7 holes were barren. One ore hole (RR-4) was drilled by the applicant. Using the U.S.G.S. method of calculating, the reserves are:

Indicated Ore	1,091 tons at	0.26% U_3O_8
Inferred Ore	2,835 tons at	0.33% U_3O_8
Total	3,926 tons	0.31% U_3O_8

RECEIVED
DEC 30 1955

The ore occurs in the uppermost sandstone unit of the Salt Wash member of the Morrison formation.

The examiners and the Field Team recommend the issuance of a certificate of discovery or development on the property encumbered under the contract.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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

224 New Customhouse
Denver 2, Colorado

December 21, 1955

Memorandum

To: S. R. Wilson (Correcting memo Dec. 15, 1955 sent John F. Shaw)

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3620 (Uranium), Contract Ldm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah

Enclosed is your copy of a Certification of Discovery dated November 25, 1955 for the subject property. Also enclosed are copies of Washington office transmittal letters to the Uranium Prospectors Company, Ltd., and to the land owners.

E. N. Harshman

E. N. Harshman

Enclosures

RDB/vj

cc: Royalty File E792
Correspondence File E792
T. A. Christensen
J. W. Townsend
E. N. Harshman
J. W. Hazler
BERKENKOTTER
Chron.

EXPLANATION

Jmsw / Jmbb — FORMATION CONTACT BETWEEN MORRISON SALT WASH AND BRUSHY BASIN

6° — STRIKE AND DIP OF BEDS

ADIT

DRILL HOLES. HOLE NUMBERS WITH PREFIX A ARE STAGE I DMEA HOLES. PREFIX B ARE STAGE II DMEA HOLES; PREFIX RR HOLES DRILLED BY COMPANY.

o BARREN

ø MINERALIZED

● ORE-BEARING, 1 FOOT OR MORE OF 0.10% U_3O_8 OR BETTER

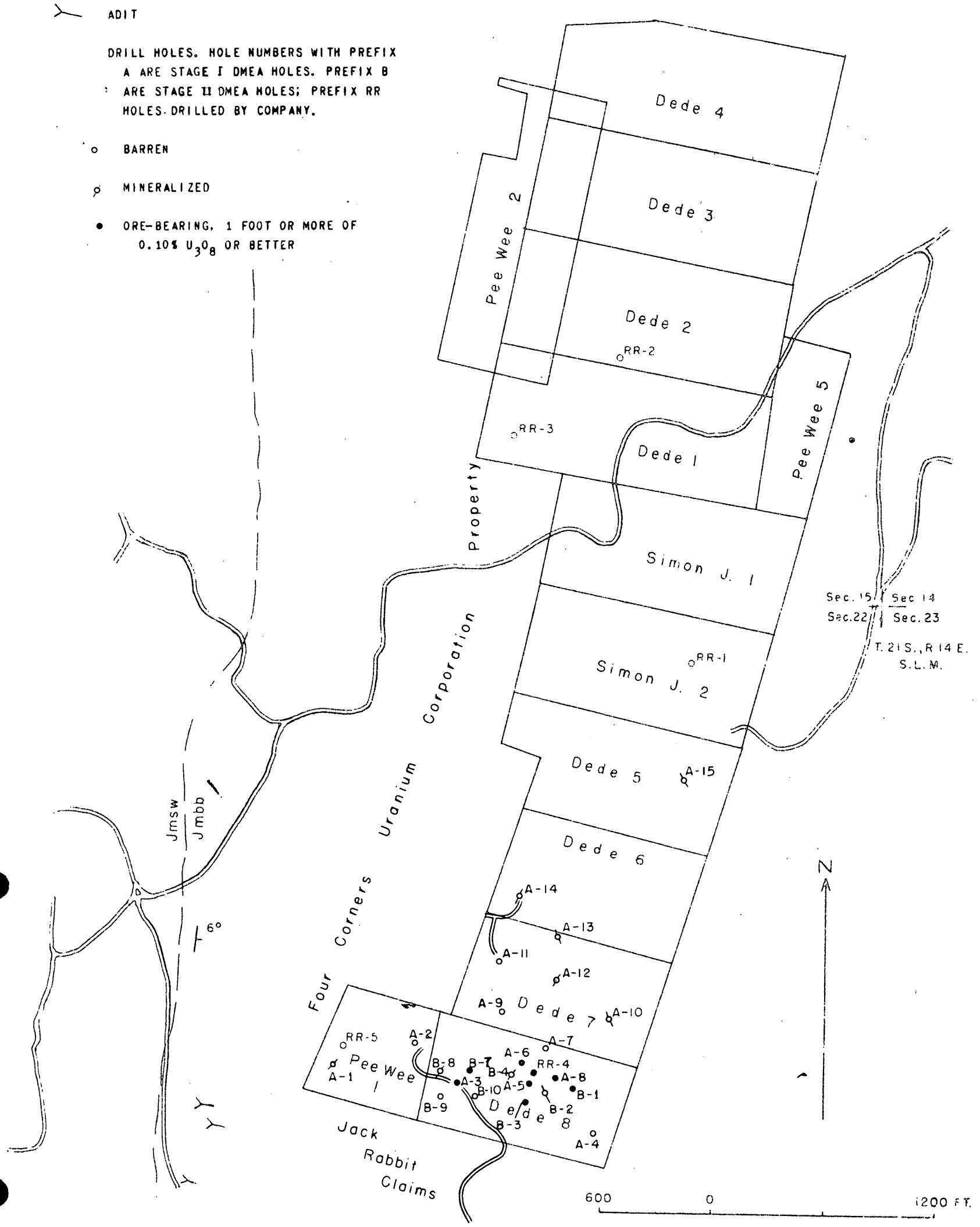


Figure 2. MAP SHOWING STAGE I AND STAGE II DRILL HOLES, PEE WEE,, DEDE, AND SIMON J GROUPS OF CLAIMS, URANIUM PROSPECTORS COMPANY LTD. EMERY COUNTY, UTAH

RECEIVED
DEC 19 1955

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3620 OCTOBER 1955

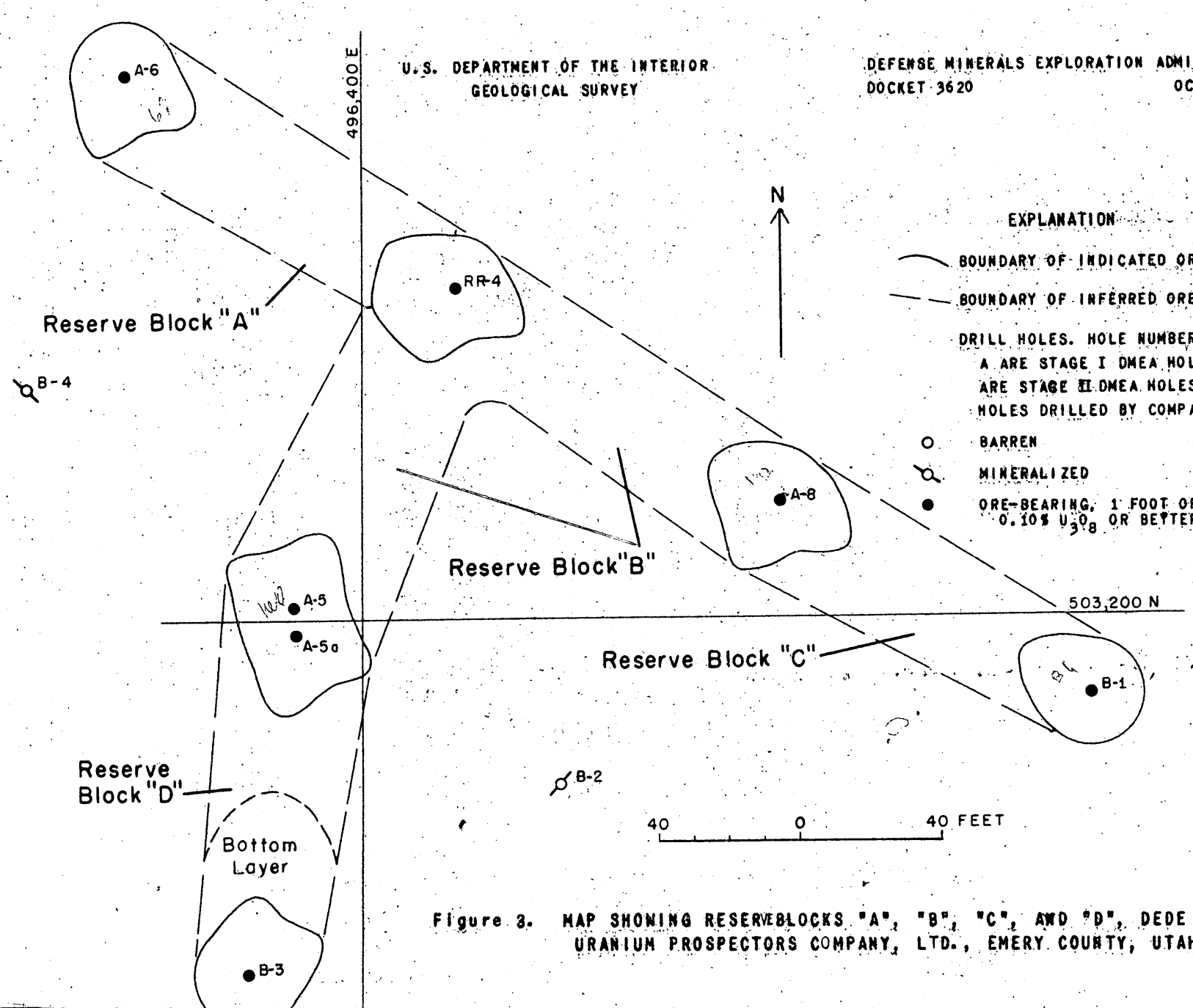


Figure 3. MAP SHOWING RESERVE BLOCKS "A", "B", "C", AND "D", DEDE NO. 8 CLAIM, URANIUM PROSPECTORS COMPANY, LTD., EMERY COUNTY, UTAH

RECEIVED
DEC 19 1985

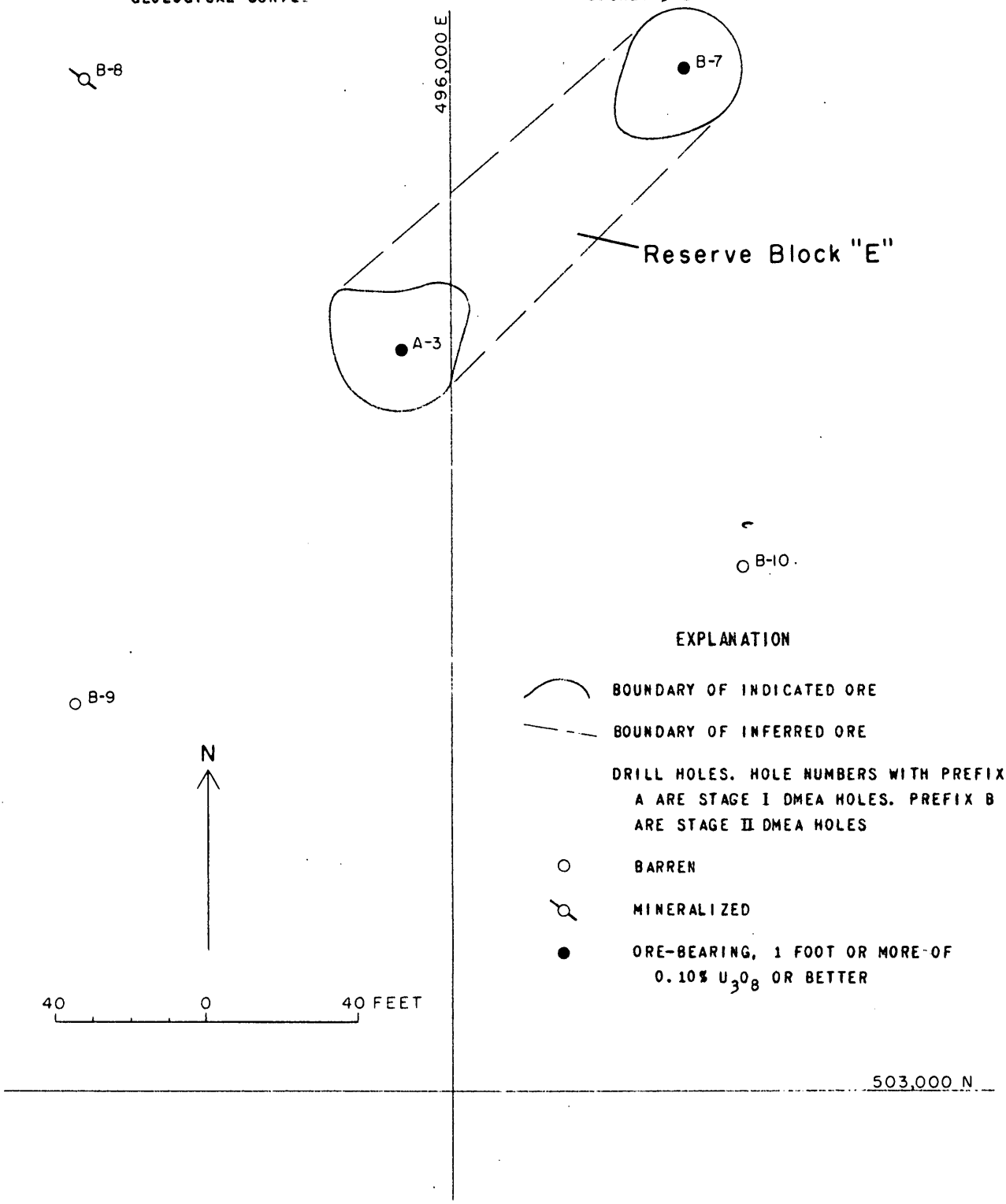


Figure 4. MAP SHOWING RESERVE BLOCK "E", DEDE NO. 8 CLAIM, URANIUM PROSPECTORES COMPANY, LTD., EMERY COUNTY, UTAH

Surname copy

Murphy
Ellis
Geehan
Nelson
Martin

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

NOV 25 1955

Mr. D. C. Daringer, Vice President
Uranium Prospectors Company, Ltd.
715 North 5th Street
Grand Junction, Colorado

Re: Docket No. DMEA-3600 (Uranium)
Contract No. Ida-2798
Duke, et al., claims
Emery County, Utah

Dear Mr. Daringer:

Enclosed is a "Certification by the United States of America of a Discovery or Development Under an Exploration Project Contract." This certification covers all the land described in Article 2 of the above-described contract.

By the terms of the Exploration Project Contract and of the certification, all uranium and other valuable minerals produced from the claims described in Article 2 of the contract, from April 28, 1955, the date of the contract, are subject to the Government's percentage royalty as set forth in the contract until the sum of $20,[illegible] is paid, or until April 28, 1965, whichever occurs first.

Payments should be made to Mr. W. N. Tarver, Executive Officer, DMEA Field Team, Region III, 7th Floor Courthouse Building, Denver 2, Colorado. Checks should be payable to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct the royalties from the amount due on each shipment and forward the check directly to the Executive Officer. Any bonus payments or allowances received by you from the sale of ore are considered to be a part of the purchase price to which the Government's royalty applies. Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets, showing quantity and grade of the product sold, the name of the purchaser, and the price and charges, certified to be correct by the purchaser.

You are requested to notify Mr. Tarver of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production

ceases at any time for an extended period, please notify Mr. Traver at six-month intervals that no production has been made, when that is the case.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosure

Copies to: David A. Rowland
9300 West 32nd Avenue
Denver, Colorado

Andrew G. McDermott
Box 413
Greenriver, Utah

FMMurphy/gla 11-16-55
cc to: Admr.'s Reading File
Operating Committee
Robert W. Geehan, Rm. 3608
T. H. Kiilsgaard, Rm. 5224
Field Team, Region III (2)
Docket
F. E. Johnson
Rare and Miscellaneous Metals Division
Mr. Murphy

Surname copy

Murphy
Ellis
Geehan
Johnson
Martin

700

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

NOV 25 1955

Mr. Andrew G. McDermott
Box 413
Greenriver, Utah

Re: Docket No. DMEA-3620 (Uranium)
Contract No. Idm-2792
Uranium Prospectors Company, Ltd.
Dede, et al., claims
Emery County, Utah

Dear Mr. McDermott:

Transmitted herewith for your information is a copy of the certification of discovery or development issued as a result of the exploration program under the above-referenced contract.

The property as set forth in the contract is the same property referred to in the Consent to Lien, dated April 9, 1955, and signed by David A. Rowland, who also signed for you as Attorney-in-Fact.

Also enclosed is a copy of our letter to Mr. D. C. Deringer, Vice President, Uranium Prospectors Company, Ltd.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosures

FTMurphy/gla
11-21-55
cc to: Admr.'s Reading File
Operating Committee
Robert W. Geehan, Rm. 3608
T. H. Kiilsgaard, Rm. 5224
Field Team, Region III (2)
Docket
F. E. Johnson
Rare and Miscellaneous Metals Division
Mr. Murphy

Surname copy

700

Murphy
Ellis
Geehan
Nelson
Martin

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

NOV 25 1955

Mr. David A. Rowland
9300 West 32nd Avenue
Denver, Colorado

Re: Docket No. DMEA-3620 (Uranium)
Contract No. Idm-5792
Uranium Prospectors Company, Ltd.
Dede, et al., claims
Emery County, Utah

Dear Mr. Rowland:

Transmitted herewith for your information is a copy of the certification of discovery or development issued as a result of the exploration program under the above-referenced contract.

The property as set forth in the contract is the same property referred to in the Consent to Lien, dated April 9, 1955, and signed by yourself and as Attorney-in-Fact for Andrew G. McDermott.

Also enclosed is a copy of our letter to Mr. D. C. Deringer, Vice President, Uranium Prospectors Company, Ltd.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosures

FMMurphy/gla
11-21-55
cc to: Admr.'s Reading File
Operating Committee
Robert W. Geehan, Rm. 3608
T. H. Kiilsgaard, Rm. 5224
Field Team, Region III (2)
Docket
F. E. Johnson
Rare and Miscellaneous Metals Division
Mr. Murphy

IN REPLY REFER TO:

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

RECEIVED
NOV 21 1955

November 18, 1955

Re: DMEA 3620 Idm-E-792
Uranium Prospectors, Ltd.
Dede Group
Emery County, Utah
$32,801.46 - Uranium

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team memorandum recommending certification.

The expenditure of $32,801.46 covering bulldozing and the drilling of 11,440 feet of hole, cored and noncored, was approved in this contract.

The drilling resulted in the discovery of ore in the following holes: (From Gamma-Ray Log Interpretation sheets)

Hole	Anomaly thickness in feet	Grade % eU_3O_8
B-1	1.5	0.13
A-1	0.6	0.65
A-3	0.9	0.34
A-5	1.0	0.30
	2.7	0.014
	0.7	1.50
	2.2	-- nothing recorded
	0.9	0.80
	0.9	0.10
A-6	1.1	0.26 (by Babel counter)
A-8	2.2	0.20 " " "
Totals	14.7	3.804 % feet
Average	2.45	0.258 % "

The log sheets and the map which accompanies the memorandum seem not to be in agreement, inasmuch as holes B-3, B-7, A-10, and A-12 are marked as ore-bearing on the map but are not so recorded on the log sheets.

The engineer (W. E. Young) says the Company engineers estimate 6,725 tons of indicated and inferred ore with a content of 0.22 percent U_3O_8 were discovered by the contract work. The area which includes holes A-5, A-6, A-8, B-1, and RR-4 measures 150 by 300 feet. Such an area would make 3,500 tons per vertical foot. Since several lenses, which may be overlapping, are believed to be represented the estimated tonnage probably is present.

Holes A-1 and A-3 which lie outside the area also represent some tonnage.

I concur with the recommendation that a certificate of discovery be issued.

N. E. Nelson

N. E. Nelson

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

November 17, 1955

RECEIVED
NOV 17 1955

Memorandum

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

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

Subject: Field Team memorandum recommending certification of discovery, DMEA Docket 3620, Contract Idm-E792, Uranium Prospectors Co., Ltd., Emery County, Utah

I have reviewed the Field Team memorandum regarding DMEA Docket 3620, Uranium Prospectors Co., Ltd., dated November 7, 1955, and received in this office November 16. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that a certification of discovery be issued.

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

John E. Crawford
John E. Crawford

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

224 New Customhouse
Denver 2, Colorado

November 7, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd., Emery County, Utah - Memorandum recommending certification

Enclosed are the original and three copies of a memorandum from W. E. Young dated November 1, 1955 with map attached, and a memorandum of transmittal dated November 2, 1955 by Stephen R. Wilson. The examining engineer recommends that Certification of Discovery be issued, in which this office concurs.

W. M. Traver

By J. W. Townsend
J. W. Townsend

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd.
NOV 4 1955
RECEIVED
NOV - 9 1955
BUREAU OF MINES
Denver, Colorado

November 2, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd., Emery County, Utah.

Enclosed are nine copies of a memorandum prepared by W. E. Young relative to a recommendation of certification of discovery or development on the subject property. A map attached to the memorandum shows the locations of holes drilled under the contract.

The exploratory work resulted in discovery of tabular-shaped lenses of uraninite ores in sandstone of the upper Salt Wash member of the Morrison formation. The inspecting engineer recommends that a certification of discovery or development be issued to cover the areas included under Article 2 of the contract. I concur in this recommendation.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. Bruce Clemmer

S. R. Wilson November 1, 1955

W. E. Young

Docket No. DMEA-3620 (Uranium), Contract Idm-2792, Uranium Prospectors Co., Ltd., Emery County, Utah. Recommendation of certification of discovery or development

The work on the subject property under Contract Idm-2792 has been completed. It is believed that sufficient ore has been discovered to warrant the recommendation of a certification of discovery.

The attached map shows the location of holes drilled and area in which ore was discovered. Holes A-5a, A-6, A-8, B-1 and B-3, drilled as offset holes to hole RR-4, a known ore hole, indicate an ore body of economic importance. These offset holes were drilled at approximately 100-foot intervals. Although these holes penetrated zones of ore-grade material, a study of the drill-hole logs shows that mineralization does not occur at the same stratigraphic horizon in each hole. This indicates podlike occurrences rather than a blanket-type ore body. For this reason it is difficult to calculate the indicated tonnage with any accuracy, with the limited amount of drilling done. Company engineers estimate 6,725 tons of indicated and inferred ore with a content of 0.22 percent U_3O_8 have been discovered as a result of contract work.

The operators have been so encouraged as a result of this drilling, and work on an adjoining group of claims, that they propose extensive future drilling in the area. They are presently engaged in mining an ore body on the adjoining Jack Rabbit groups of claims. This ore body is being mined through a 305-foot shaft. Future developments from mining from this shaft and from proposed drilling in the intervening ground may make the subject ore body accessible without expensive development work.

The discovery resulting from work under the subject contract may be described as small, tabular-shaped lenses of uraninite-bearing sandstones occurring in the upper Salt Wash member of the Jurassic Morrison formation.

The area referred to in Article 8 of the contract is set forth in Annex 1 as 18 unpatented mining claims: Bede Nos. 1-8 inclusive; Pee Wee Nos. 1-3 inclusive; Simon J No. 1 and Simon J. No. 2. In view of the ore reserve discovered by the work under the subject contract, it is recommended that a certificate of discovery be made on the above-listed group of claims.

W. E. Young

W. E. Young

Alley
Talbert

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

OCT 13 1955

Mr. T. H. Brading
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Dear Mr. Brading:

In comparing our records of disbursements for the month of September, 1955 with those shown on the Strategic and Critical Minerals Exploration Program Monthly Report for Region III we find that we have not received our copies of a final payment of $487.84 made on Contract No. Idm-K792, Docket No. DMEA-3620, Uranium Prospectors Company, Ltd.

It will be appreciated if you will arrange to have the usual two copies of this voucher forwarded to the Washington office.

Sincerely yours,

(Signed) E. D. Talbert

for Jay L. Chambers, Chief
Contract Administration
and Audit Division

AMAlley/ama
October 13, 1955

Copies to: Docket
Admr. Reading File
Mr. Chambers

RECEIVED
OCT 20 1955

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: [illegible] 20, 1955
Payee's Reference: Final Report
DMEA-3620

Gran[illegible] Prospect[illegible] Company [illegible]
720 [illegible] Fifth Street
Grand Junction, Colorado

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ 500.00

Difference $ 22.26

Amount Approved $ 107.74

The reason for the difference was due to:

The difference between amount of $500.00 claimed from last report and amount of payment herewith is due to disallowance of 5 feet of core drilling at $4.33 per foot plus incidental allowance of $.75 per foot, a total of $26.00 made by the DMEA auditor in his final report of review. The independent contract includes hole No. A5101 at 103 feet whereas the drill log showed the depth of this hole to be 147 feet. 75% of $26.00 is $22.26.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

224 New Customhouse
Denver 2, Colorado

September 15, 1955

Memorandum

To: T. A. Christensen

From Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah - FINAL PAYMENT

Reference is made to our memorandum of August 24, 1955 whereby we sent Form MF-104, Operator's Monthly Progress Report and Voucher for the period of July, 1955 and instructed you to withhold the amount of $500.00 from reimbursement to the Operator pending receipt of the Operator's final report and the final Audit Report by the Contract Administration and Audit Division.

The Operator's final report has been received in this office and the final Report of Review by the Contract Administration and Audit Division was released to this office on September 13, 1955. We now recommend that payment to the Operator be made in conformance with the Report of Review as follows:

Basis for Final Payment

Total Accepted Costs as per Report of Review	$27,926.81
Government participation at 75 percent	20,945.14
Total Prior payments	20,457.30
Due the Operator	$ 487.84

The Operator should be informed by means of an Administrative Audit Difference Statement that the difference between the $500.00 which was withheld from payment due him and the $487.84 now approved is 75 percent of a disallowance as recommended in the Report of Review. This disallowance was made on the basis that drill hole No. A-5(a) was shown on the geologic core-log sheet, attached to the June, 1955 progress report, as bottomed at 487 feet rather than the reported 491 feet. Total costs disallowed amount to $16.20.

WLD:prl
cc: Secretary, Operating Committee (2)
MF-104 files Idm-E792
~~Shaw (2)~~ Wilson
Townsend
Chron.

W. M. Traver

Paid 487.84
RRC

Randel R. Cooper
Authorized Certifying Officer

SEP 1955

DMA-56-28

Talbut

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

SEP - 9 1955

Mr. Donald T. Finch
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Re: Uranium Prospectors Co., Ltd.
Docket No. DMEA-3620
Contract No. Idm-E792

Dear Don:

Returned herewith for necessary revision are the copies of your Report of Review, covering the referenced contract, as transmitted by your letter of September 7, 1955.

Please refer to item (K) on page 70 of the Manual of Audit Procedure, wherein it is stated that reasons (a) and (b), or acceptable variations thereof, must be given in every case where all or any portion of the costs are under contract provisions for contribution by the Government on the basis of "actual" costs. Also note item (d).

It is suggested that the reasons in the third paragraph of this Report of Review be revised to read substantially as follows (provided they are correct statements of the facts):

(a) the administrative cost to the Government of an audit would be excessive in relation to the value of the estimated amount of possible further disallowances thereunder;

(b) the Monthly Reports were supported by documentary proof of the costs incurred under the contract's provisions for contribution by the Government on the basis of actual costs incurred;

(c) a major portion ($19,802.10) of the accepted costs covered work performed at unit rates under independent contracts; and

(d) the balance of the accepted costs were under a contract provision for payment by the Government on the basis of fixed unit costs for work actually performed.

If your concur with the above and the Report is redrafted accordingly, release of the regional copies is authorized.

R.C.G.

It is presumed that your have verified through reference to interim field team reports and conferences with the engineer or Executive Officer that the units of work have been satisfactorily performed. Accordingly, there appears no reason for withholding release of the regional engineer until the "Field Team indicates final acceptance of the work." This is a Field Team responsibility per the "or will accept" language in the last paragraph of the Report of Review.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Chief
Contract Administration
and Audit Division

Enclosure

EDTalbert/wb
September 9, 1955

Copy to: Docket
Admr. Reading File
Mr. Chambers

Memorandum September 8, 1955

To: Administrator

From: George C. Selfridge
Special Assistant

Subject: Proposed Contract
Docket No. DMEA-3767 (Uranium)
Uranium Prospectors Company, Ltd.
Jack Rabbit claims
Emery County, Utah

The writer has not surrenned the proposed contract because he believes that the incidental allowance of 75 cents a foot is too high.

The writer surrenned with reluctance Contract No. Idm-2792,-DMEA-3620, Uranium Prospectors Company, Ltd.--only after pointing out that he believed a similar incidental allowance of 75 cents a foot was too high. Work under Contract No. Idm-2792 has now been finished. The drilling time set up in the field report was set at four months. Twenty-three of the proposed 35 holes were drilled in two and one-half months, at which time it was decided that the work under the contract was finished. Review of Docket No. DMEA-3620 shows that drilling rates exceeded 200 feet a shift on some days. Drilling during the month of July amounted to 5,121 feet, of which only 237 feet of hole was cored.

The presently proposed contract is for a project on ground adjacent to that of Contract No. Idm-2792, Docket No. DMEA-3620. In addition, the field report on Docket No. DMEA-3767 discussed two modes of exploration--one underground and the other surface drilling. The company has sunk a shaft on the subject property and plans to mine as soon as possible. The field report suggested if the underground exploration were approved that there fores be driven under the DMEA contract and that only one-third of the supervisory, technical, and material overhead costs be charged against the contract. This was not taken into consideration when allowing the incidental drill hole cost.

On September 6 the Committee cleared a contract also in the San Rafael Swell area--Vaughey and Vaughey, Docket No. DMEA-3730--in which an incidental cost of only 15 cents was allowed. Some services

or materials were not charged to the contract. Also the writer recently noticed a reference to a Sabre Uranium request of either 20 or 25 cents a foot. The writer believes that the incidental allowance should be radically revised downward or the contract put on an actual-cost basis with services and materials being proportionately charged to the contract and to whatever other activities the company may have in the immediate area.

The proposed contract has not been returned as yet to the Division for corrections.

George C. Selfridge

George C. Selfridge

GCSelfridge/ef/fw
9/8/55

cc: Docket DMEA-3767
" DMEA-3620
" DMEA-3730
Admr. Reading File
Messrs. Ellis
Mittendorf
Johnson
Selfridge
Chron.

Mr. Murr
Contract file
3620

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

Rm. New Customhouse
Denver, Colorado

August 21, 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Gamma-ray log interpretations
Docket 2771, Contract Idm-2577, Grenlich Exploration Company, Utah
Docket 3296, Contract Idm-2619, Commerce Uranium Mines of America, Inc., Colorado
Docket 3251, Contract Idm-2672, Four Corners Exploration Company, New Mexico
Docket 3190, Contract Idm-2672, Flattop Mining Company, New Mexico
Docket 3266, Contract Idm-2733, Big Indian Uranium Corporation, Utah
Docket 3297, Contract Idm-2800, Continental Uranium, Inc., Utah
Docket 3360, Contract Idm-2723, Mid-Continent Uranium Corporation, Utah
Docket 3349, Contract Idm-2745, United States Uranium Company, Colorado
Docket 3175, Contract Idm-2760, Anaconda Corporation, Utah
Docket 3350, Contract Idm-2782, Radium Hill Uranium, Inc., Colorado
Docket 3365, Contract Idm-2773, The Golden Cycle Corporation, Colorado
Docket 3379, Contract Idm-2794, Rula Belle Uranium, Inc., Colorado
Docket 3388, Contract Idm-2796, Walter Duncan Mining Company, Utah
Docket 3620, Contract Idm-2[illegible], Uranium Prospections Company, Ltd., Colorado

1 set to USGS

Enclosed are four copies of gamma-ray log interpretations for holes drilled on the subject properties, and transmittal by E. H. Harshman, Region III DMEA Field Team member.

/s/ W. M. Traver

W. M. Traver

Enclosures

Shaw (2)
Hanley
Harshman
Townsend Chron

copy

Uranium Prospectors Co. Ltd.
Green River, Utah
DMEA Docket No. 3620

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
B-1	489.?	None	1.0-480.4	459.1-460.4	1.3	2600			0.070	Not cored
				465.3-466.1	0.8	1100			0.027	
				469.4-470.4	1.0	2400			0.064	
				470.4-475.1	4.6	600			0.010	
				475.1-476.6	1.5	4200			0.13	
				476.6-480.4	3.8	800			0.012	

* From top to bottom depths

Uranium Prospecters Co. Ltd.
Green River, Utah -- Dede Claim, Emery Co.
DMEA Project 3620

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
A-4	500.0		7.2-477.4	Barren	477-500 was barren according to log made with Babel counter at the time the hole was completed.					
A-8	515.0		5.8-444.2	Barren						
				476.1-478.3	2.2				0.20	
				Anomaly detected by claim owner using Babel counter before lower portion of hole caved.						
A-9	464.0		5.7-358.4	Barren						
A-12	?		0.0-429.4	Barren						
A-13	?		6.4-489.0	388.8-390.4	1.6	560			0.012	
				390.7-392.0	1.3	400			<0.010	
				441.0-442.8	1.8	290			<0.005	
				442.8-444.0	1.2	210			<0.005	
				446.9-447.9	1.0	1300			0.032	
				458.7-459.9	1.2	220			<0.005	
				460.7-462.5	1.8	270			<0.005	

* From top to bottom depths

Uranium Prospectors Co. Ltd.
Green River, Utah -- DMEA

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
A-1	396.0	0	6.0-396.0	209.5-210.1	0.6	8700			0.65	
				244.5-249.0	5.5	240			<0.005	
A-2	386.0	0	5.0-353.0	None						
A-3				379.2-380.1	0.9	7600			0.34	
				382.0-383.6	1.6	380			<0.010	
A-5-a	474.0	0	4.6-450.7	439.8-440.8	1.0	7000			0.30	
				440.8-443.5	2.7	800			0.014	
				443.5-444.2	0.7	32000			1.5	
				446.4-447.3	0.9	2500			0.080	
				447.8-448.7	0.9	3100			0.10	
A-11				259.4-260.2	0.8	390			0.011	
				260.2-260.8	0.6	220			<0.010	
A-14				225.7-226.7	1.0	220			<0.005	
				227.4-229.0	1.6	360			<0.010	
A-15	656.0	0	3.3-251.5	None						Hole caved

RECEIVED
AUG 29 1955

* From top to bottom depths

Uranium Prospectors Co. Ltd.
Dede Claims 6, 7, 8; San Rafael Reef
Green River, Utah -- DMEA Docket 3620

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
B-2	500.0	None	3.1-446.2	435.5-436.5	1.0	1000	RF4		0.023	
				436.5-437.4	0.9	600	RF4		0.017	
				438.0-439.2	1.2	1800			0.045	
B-3	482.0	None	7.2-373.0	None						
B-4	489.0	None	6.5-431.0	None						
B-7	411.0	None	3.8-325.5	None						
B-8	415.0	None	0.7-401.5	374.5-375.6	1.1	670			0.019	
				376.3-378.3	2.0	540			0.010	
				378.3-381.5	3.2	240			<0.005	
B-9	416.0	None	2.6-403.1	None						
B-10	414.0	None	4.8-363.4	None						
A-10	515.0	None	1.8-403.0	None						

* From top to bottom depths

Uranium Prospectors Co. Ltd.
San Rafael Reef area,
Green River, Utah -- DMEA

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
A-6	489.0		5.4-425.5	355.0-361.2	6.2	220			<0.005	
These anomalies were detected by Co. geologist with Babel probe at time of drilling. Instrument operator was unable to reach this zone because hole was caved.				(446.0-447.1 (450.5-450.1	1.1 0.6	? ?			0.26) 0.005)	
A-7	477.0		6.0-426.1	498.1-499.3	1.2	460			0.011	
This hole was barren using Babel probe at time of drilling in section below portion probed by the instrument operator.										

* From top to bottom depths

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

RECEIVED
AUG - 5 1955

224 New Customhouse
Denver 2, Colorado

August 2, 1955

Memorandum

To: W. S. Martin, Acting Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., (Dede, et al., claims), Emery County, Utah

Reference is made to your letter of July 28, 1955 with regard to type of core drilling by the Operator on the subject contract under Stage II.

This contract has been completed and the 8 holes drilled under Stage II were all performed with plug bit as authorized.

It is our understanding that the contract is completed, and final reports are in preparation.

W. M. Traver

W. M. Traver

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

224 New Customhouse
Denver, Colorado

August 1, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd. (Dede, Pee Wee and Simon J. Claims), Emery County, Utah

Reference is made to request of July 26 for preparation of an amendment to the subject docket and our teletype of today requesting that you disregard the request.

Enclosed are two copies of the Operator's written explanation of reasons for withdrawal of this application for the amendment.

Apparently from this letter I was in error in my teletype in stating that his reason for withdrawal was because of disappointing results in the eight holes drilled. Evidently he considers that the eight holes have yielded sufficient information so that additional drilling would not justify the expense involved.

W. M. Traver

W. M. Traver

Enclosures

W.O.

DMEA
Date Rec'd.
AUG 1 1955
BUREAU OF MINES
Denver, Colorado

July 29, 1955

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

Re: Docket DMEA 3620 (Uranium)
Contract Idm-E792

Dear Mr. Traver:

In submitting our report on the "First Stage Drilling Results and Proposal for Second Stage Drilling" on above indicated Docket and Contract, we proposed a total of 12 holes for the second stage drilling. Although our proposal kept within the contract in total expenditures, the footage allowance was exceeded and therefore you were obliged to limit second stage drilling to the total contract footage until authorization for the additional footage could be secured from Washington. This reduced the number of holes which you could authorize under second stage drilling to 8.

We have now completed these eight holes and are of the opinion that the drilling of the four additional holes for which you have petitioned Washington would not give sufficient information to warrant the expense. Therefore would you be so kind as to cancel the petition to Washington.

The third progress report and final engineering report are now being compiled and will be forwarded through proper channels within a few days. For your advanced information, two holes of the eight holes of second stage drilling were of ore grade and the remaining six were mineralized. These two ore holes, together with the seven holes of ore grade drilled during the first stage have inferred sufficient ore in the area to be commercial.

We wish to take this opportunity to thank you and your staff for the cooperation rendered us during this project.

Sincerely yours,

URANIUM PROSPECTORS CO., LTD.

D. C. Deringer

D. C. Deringer

W. S. Martin

DN 235 BUR MINES 8-1-55 8-45 AM

W S MARTIN, ACTING CHAIRMAN OF COMMITTEE, DMEA

REFERENCE DMEA-3620, CONTRACT IDM-
~~3792,~~ XXXX IDM-E792, URANIUM PROSPECTORS COMPANY, LTD. DISREGARD REQUEST FORWARDED YOU JULY 26 FOR PREPARATION AMENDMENT TO ALLOW ADDITIONAL DRILLING 4 HOLES UNDER STAGE II. OPERATOR HAS COMPLETED 8 HOLES AUTHORIZED AND BECAUSE OF DISCOURAGING RESULTS REQUESTS CLOSING THE PROJECT. HIS WRITTEN REQUEST FOLLOWS.

W M TRAVER

Denver, Colo.

AUG 1 1 17 PM '55
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D.C.
AUG 1 1 17 PM '55
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D.C.

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

RECEIVED
AUG 29 1955

224 New Customhouse
Denver 2, Colorado

August 26, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3620, (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of July, 1955.

W. M. Traver

W. M. Traver

Enclosures

jy

cc: MF-104 File E792
Wilson
Chron.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION ~~IX~~ ~~III~~

RECEIVED
AUG 29 1955

Administrative Audit Difference Statement

Date: 8/25/55
Payee's
Reference: Mn E-72

July 1955

Uranium Prospectors Co., Ltd.
726 North 5th St.
Grand Junction, Colo.

Gentlemen:

Upon examination of the above Payee's reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed	$ 12,442.05
Difference	$
Amount Approved	$ 12,442.05

The reason for the difference was due to:

($500.00 is withheld pending receipt of your Final Report and release of the Final Audit Report by the Contract Administration and Audit Division, AEC.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

Lundon H. Cooper
~~ACTING CHIEF~~
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

RECEIVED
AUG 29 1955

224 New Customhouse
Denver 2, Colorado

August 24, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3620, (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah - Operator's Monthly Progress Report, for the period July, 1955.

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report, except as noted below.

Withhold $500.00 pending receipt of the Operator's Final Report and release of the final Audit Report by the Contract Administration and Audit Division, DMEA.

Remarks

Date of Report- - - - - - - - - - - - - - - - - -July 29, 1955
Date Received in Field Office- - - - - - - - - August 1, 1955
Date Received in Region Office- - - - - - - - August 22, 1955

W. M. TRAVER,

W. M. Traver

Enclosures

JDC:jy

cc: MF-104 File E792
Sec. Opr. Comm. (2)
Wilson
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

August 18, 1955

DME RECEIVED
Date Rec'd
AUG 29 1955
AUG 22 1955
BUREAU OF MINES
Denver, Colorado

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3620 (Uranium), Contract Idm-2792, Uranium Prospectors Co. Ltd., Emery County, Utah. MF-104 forms for July 1955

Attached are the required copies of the subject contractor's report covering work accomplished during July 1955. The contractor has completed Stage I drilling and has drilled eight holes under Stage II. The contractor considers the work to be completed, although a total of approximately $4,880 remains unexpended. A total of 11 holes was drilled during July.

The project work was inspected by W. E. Young August 12, 1955. Work reported by the contractor was verified by the inspecting engineer. Five of the 11 holes drilled during the period encountered ore-grade mineralization. The other six holes show below-ore-grade mineralization. All work reported is in conformance with the contract.

It is recommended that the project be considered completed and the contract terminated. It is also recommended that the operator be reimbursed by 75 percent of the reported expenditures for July 1955, subject to an audit statement and acceptance of the operator's final report.

The MF-104 forms were received in this office August 1, 1955. Total delay in transmitting the forms to Denver resulted from commitments of the inspecting engineer on other work.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

H. R. Wilson

August 15, 1955

W. E. Young

Docket No. DMA-3620 (Uranium), Contract Ida-5792, Uranium Prospectors Co. Ltd., Emery County, Utah. Progress report and MF-104 forms for July 1955.

The subject property was inspected August 12, 1955. The progress reported for July 1955 has been made. Three holes were completed in Stage I for a total of 15 holes. The company obtained written authorization to drill Stage II and 8 holes were completed. The company was desirous of using the two remaining holes of Stage I for further offsetting, but were unable to retain the drilling equipment for the length of time necessary to procure an amendment. Therefore the contract was terminated. Total drilling under contract amounted to 24 holes aggregating 10,717 feet.

Five of the eleven holes drilled during the period encountered ore and six showed mineralization. All holes were probed with the Babbel counter.

The work done to date indicates an ore body in the 5,000- to 6,000-ton size.

The operator's narrative report and map are considered adequate. MF-104 and 104a forms agree as to monthly cost, total project cost and footages.

It is recommended that the operator be reimbursed for $9,332.14. This is 75 percent of $12,442.85, the amount expended during July 1955.

W. E. Young

W. E. Young

RECEIVED

AUG 29 1955

July 29, 1955

Mr. S. R. Wilson
U.S. Bureau of Mines
1600 East First South Street
Salt Lake City, Utah

Re: Docket DMEA 3620 (Uranium)
Contract Idm-E792

Dear Mr. Wilson:

We submit herewith our third and final monthly progress report of exploration project authorized by above numbered contract.

In accordance with outlined reporting procedures, the following data are attached hereto: (5 copies)

1) Narrative Report
2) Form MF-104 "Operator's Monthly Report and Voucher"
3) Form MF-104A "Operator's Unit Cost and Progress Report"
4) Statement - Cannon Diamond Drilling Company
5) Certificate of Analysis - Brown Laboratory
6) Statement - Black Panther Uranium Company
7) Geologic and Assay Logs, Holes A-10, A-12, A-13, B-1, B-2, B-3, B-4, B-7, B-8, B-9, B-10
8) Progress Map, Showing Drill Hole Locations
9) Drillers Daily Reports

This report covers the period July 1 to July 19, 1955.

Very truly yours,

URANIUM PROSPECTORS CO., LTD.

D. C. Deringer
Vice President

Encl.: Listed above

RECEIVED
AUG 29 1955

EXPLORATION PROJECT CONTRACT IDM-E792

URANIUM PROSPECTORS COMPANY, LTD.

DOCKET NO. DMEA 3620

PROGRESS REPORT JULY 1-19, 1955

1st STAGE DRILLING

Three 1st stage drill holes were drilled this month to complete 15 of the proposed 17 holes. The remaining two 1st stage holes were not drilled because the operator desired to transfer the drill funds allotted for these two holes to the 2nd stage drill funds for the purpose of drilling more 2nd stage holes around an ore body indicated by previous 1st stage drilling. First stage drill holes completed this month are tabulated below.

Hole No.	Non-Core	Core	Total Depth	Date Completed	Remarks
A-10	445	70	515	7-2-55	Ore
A-13	410	93	503	7-7-55	Mineralized
A-12	400	74	474	7-9-55	Ore
Totals	1,255	237	1,492		
Previous Drilling	4,247	1,349	5,596		
Total 1st Stage	5,502	1,586	7,088		

2nd STAGE DRILLING

The operator proposed 12 non-core holes to be drilled under the 2nd stage. It was learned, however, that because only eight 2nd stage holes were originally authorized by the contract, approval from Washington would be required for the additional four holes. Government approval for the drilling of eight of the proposed holes was granted July 12th. Drilling of these eight holes was completed July 19th. It was not possible to keep the contracted drilling equipment idle at the property pending approval or disapproval of the additional 2nd stage drilling, and the operator does not feel that it would be feasible to move the equipment back for such a small amount of drilling. The operator, therefore, considers the drilling under this contract to be completed.

2nd Stage Drilling (Continued)

Completed 2nd Stage drill holes are tabulated below.

Hole No.	Total Depth	Date Completed	Remarks
B-3	482	7-13-55	Ore
B-2	500	7-14-55	Mineralized
B-1	502	7-15-55	Ore
B-4	489	7-15-55	Mineralized
B-10	414	7-16-55	Mineralized
B-7	411	7-17-55	Ore
B-8	415	7-18-55	Mineralized
B-9	416	7-19-55	Mineralized
Total	3,629		

DRILL SITES AND ACCESS ROADS

Seven hours of bulldozer work was required during the period for the leveling of eight 2nd stage drill sites, and 1½ hours was required for the construction of approximately 100 feet of difficult access road to drill site No. B-9. One hour was charged for moving the equipment to the property.

FINAL REPORT

The final report is now in process, and completion is anticipated prior to August 1st.

S. Bedenger

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

U. S. Bureau of Mines
RECEIVED
AUG 1 1955
Salt Lake City, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED
AUG 29 1955

Month of July, 1955 Docket No. DMEA 362 Contract No. Idm-E792
Operator's Name Uranium Prospectors Company, Ltd. Minerals Uranium
Address 718 North 5th St., Grand Junction, Colorado
Contract Amount, $ 32,742.50 Government Participation: 75 % Amount, $ 24,556.90

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short-Form~~ Contracts:						
Drilling	8,504.10	11,025.20	19,529.30			
Bulldozing	78.00	208.00	286.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	20.00	70.00	90.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify): Incidental allow., F.U. costs per contract Exhibit A	3,840.75	4,197.00	8,037.75			
TOTALS	12,442.85	15,500.20	27,943.05	12,442.85	15,500.20	27,943.05

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 29, 1955 *Payee Uranium Prospectors Co., Ltd.

Per [signature] Title Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 8,832.14

Signature [signature]
(Authorized Certifying Officer)

Date 8/25/55 Vou. No. DMA 56-19

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. dmx-E 712 in accordance with the terms of the contract.

Signature W. E. Young JRW Title Mining Engineer Date Aug 15, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Maney Title Executive Officer Date AUG 24 1955

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

U.S. Bureau of Mines
RECEIVED
AUG 1 1955
Salt Lake City, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
AUG 29 1955

Month of July 1955 Docket No. DMEA 3620 Contract No. Idm-L792
Operator's Name Uranium Prospectors Company, Ltd. Minerals Uranium
Address 718 North 5th St., Grand Junction, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	782.10	237	5,233.80	1,586	3.30	1,490	$ 3.50
Non-core ~~Churn~~ 0'-300'	ft.	4,950.00	3,300	10,102.50	6,735	1.50	9,950	1.75
Non-core ~~Auger~~ 300-650'	ft.	2,772.00	1,584	4,193.00	2,396	1.75		
~~Stripping~~ Reservoir Const.	hr.	-0-					5	13.00
~~Trenching~~ Incid. Allow.	ft.	3,840.75	5,121	8,037.75	10,717	.75	11,440	.75
~~Test Pits~~ Analysis	sample	20.00	4	90.00	18	5.00	60	5.00
Roads and Trails	hr.	18.00	1½	126.00	10½	12.00	75	13.00
Drill site constr.	hr.	60.00	5	160.00	13 1/3	12.00	15	13.00
TOTAL DISTRIBUTED COSTS		12,442.85		27,943.05				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		12,442.85		27,943.05				32,742.50

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

REMARKS:

Date July 29, 1955 Operator Uranium Prospectors Co., Ltd

Per [signature] Title Vice President

NOTE.—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.

(Instructions on reverse)

(For Government use only)

W. E. Young
Mining Engineer

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

CANNON DIAMOND DRILLING CO.

RECEIVED
AUG 29 1955

July 20, 1955

STATEMENT

TO: Uranium Prospectors Company
718 North 5th Street
Grand Junction, Colorado

FOR: Drilling July 1 - July 19, 1955

HOLE NO.	0-300	300-650	0-650(Core)
A10	300	145	70
A12	300	100	74
A13	300	110	93
B1	300	202	
B2	300	200	
B3	300	182	
B4	300	189	
B7	300	111	
B8	300	115	
B9	300	116	
B10	300	114	

0-300	3,300 feet	@ $1.50 per foot	$4,950.00
300-650	1,584 "	@ $1.75 " "	$2,772.00
0-650	237 "	@ $3.30 " "	$ 782.10
	5,121		$8,504.10

Cannon Diamond Drilling Co.

Jack R. Bailey

Certified Correct

[illegible]

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

RECEIVED
AUG 29 1955

ANALYTICAL DEPARTMENT

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Uranium Prospector Co., Ltd.
718 No. 5th Street
Grand Junction, Colorado

Date 7-12-55
Order No. 3791-S

Material: Ore Samples
Received: 7-11-55
For: Analysis

Lab. No.	Your No.	Description	%U_3O_8	%V_2O_5	%$CaCO_3$
3791-1	337		2.37		1.3
3791-2	338		0.08		20.6
3791-3	339		0.05		15.2
3791-4	340		3.10		15.7

Analyst.

Black Panther Uranium Company

700 LIBERTY BANK BUILDING

OKLAHOMA CITY, OKLAHOMA

JULY 16, 1955.

GREEN RIVER, UTAH:

TO. U.P.CO.LTD.

LABOR PERFORMED DOZING DRILL SITES.

JULY 13th. *** 5½ hours
JULY 14th *** 4 hours

TOTAL HOURS ----------9½ Hours @$12.00 Per Hour$114.00

Certified Correct

[illegible]

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-10 ( )
Inclination Vert Bearing down
Total depth 515.0
Collar elev 4477.4 T P
Area San Rafael Reef

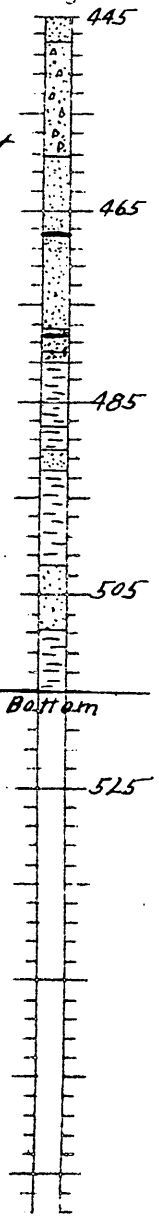
Map coord (T) N 503,572.5 E496,792.9
Map coord (P)
Sec. 22 T 21S R 14E
Co., State Emery, Utah

Claim Dede No. 7
Date completed 7-2-55
Date logged 7-2-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 443.0 to 482.0 thick 41.0 ; SS color Wh-Lt. Gy ; MS sparse ; Cbn. some

Graphic log



DRILL LOG Depth	DRILL LOG Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		447.7	2.7	100	SS	Wh-Lt. Gy	F-M				Plug bit 0-445; SS penetrated at
		459.1	11.4	100	SS	Wh-Lt. Gy	F-M+ Congl	Angular bleached			443; Jmb-Jmsw Contact 443?
								Pbls in Congl			Ibdd F-M grained SS + C Congl
464.0	19.0	467.5	12.4	100	SS	Wh-Lt. Gy	F-M		thn sm 460.3		
		467.6	0.1	100	Carbon	Bl			sms		Intense radioactivity in thn Vitreous
											asphaltic sms
		472.4	7.8	100	SS	Wh-Lt. Gy	F-V.F.				
		478.7	1.3	100	SS	Lt. Gy	M-F				
		478.8	0.1	100	Carbon	Bl			Sm		Moderate radioactivity in carbonaceous
											sm Carbon appears to be portion of
											tree
482.0	18.0	481.1	2.3	100	SS	Lt. Gy	F-F-V.F.		SPs 480.7	Some Gn pbls	Well Cemented
		482.0	0.9	100	SS	Lt. Gy	V.F				Very well cemented
		487.3	5.3	100	Sts-Ms	Gn					
		490.0	2.7	100	Sts	R+Gn					
		492.6	2.6	100	SS	Lt. Gy to	V.F.				Very well cemented
501.0	14.9					R. Br					
		502.2	9.6	50.7	Ms-sts	R+Gn					
		508.8	5.6	100	SS	Lt. Gy to	V.F.				Very well cemented
						Lt. R Br					
515.0	6.4	515.0	6.2	0.0	Ms	Gn					Bottom 6.0' of core lost driller
											reports Ms

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$
467.5	0.1	2.37		1.3					
Sample No.		337	0.1' actual core						
478.8	0.2	0.08		20.6					
Sample No		338	0.2' actual	core					

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			468.2	0.1	0.82	
			479.5	0.1	0.04	
			Babbel	probe	Results	

*Assays marked "e" are from lab gamma-ray readings

GPO 839041

Hole No. A-10

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-12 ( )
Inclination Vert Bearing down
Total depth 474
Collar elev. 4,483.8 T P
Area San Rafael Reef

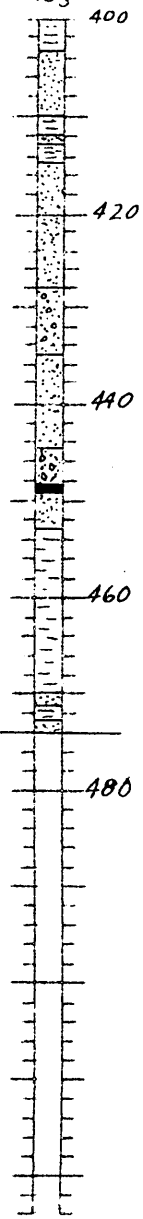
Map coord (T) N503,765.0 E496,526.2
Map coord (P)
Sec. 22 T. 21S R 14E
Co., State Emery, Utah

Claim Dede No. 7
Date completed 7-9-55
Date logged 7-10-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Ore hole; OBSS from 403.7 to 453.5 thick 50.2; SS color Wh-Lt. Gy; MS Sm 3.6'; Cbn. Same

Graphic log



DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		403.7	3.7	0.0	Ms	R+Gn					Plug bit 0-400; 9.0' core lost
410.0	0.9	410.0	6.3	14.3	SS	Wh-Lt. Gy	M-F				400-410'; projected Jmb-Jmsw
		412.0 -	2.0	100	Ms-sts	R+Gn					Contact 403.7
		412.7	0.7	100	SS	Gy Gn	V.F		Spx		
		414.3	1.6	100	Ms-sts	D Gy Gn					
426.0	16.0	428.0	14.3	83.9	SS	Wh-Lt.Gy	M-F				
431.0	1.1	437.0	11.0	100	SS	Wh-Lt.Gy	F-M&C Congl	Angular bleached phls + some R. Chert			Tbdd F-M poorly sorted SS&C Congl
		444.5	7.5	100	SS	Wh-Lt.Gy	F-M				
449.0	16.3	448.7	4.2	73.9	SS	Wh-Lt.Gy	F-M-C Congl				
		449.4	0.7	14.3	SS	D Gy	F-M+muddy		Sms		Intense radioactivity in thin vitreous asphaltic sms; trace fine-grained pyrite
		453.5	4.1	100	SS	Wh-Lt.Gy	F				Bdg @ 75° to core near base
468.0	13.1										
		470.0	16.5	66.7	Ms-sts	R+Gn					
		471.5	1.5	100	SS	Lt. Gy	V.F				Well cemented
		472.9	1.4	90	Ms-sts	R+Gn					
474.0	3.9	474.0	1.1	100	SS	Lt. Gy	V.F				Well cemented

7bn sms 449.0 - 449.3
Sms on bdg planes 452.0 - 453.5

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$
449.4	0.7	3.10		15.7					
Sample No. 340 actual Core 0.1'									

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			449.4	0.7	0.49	
			Babbel Probe results.			

*Assays marked 'e' are from lab gamma-ray readings

GPO 835041

Hole No. A-12

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-13 ( )
Inclination Vert Bearing down
Total depth 503.0
Collar elev. 4,488.6 T P
Area San Rafael Reef

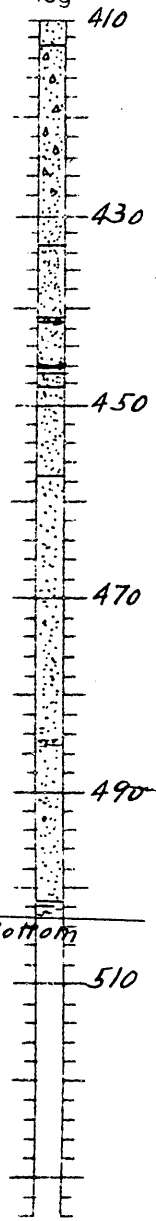
Map coord (T) N504,125.3 E496,642.6
Map coord (P)
Sec. 22 T. 21S R 14E
Co., State Emery, Utah

Claim Dede No. 6
Date completed 7-7-55
Date logged 7-8-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole; OBSS from 409.0 to 501.7 thick 92.7 SS color Wh-Lt. Gy MS Some Cbn Sparse

Graphic log



DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		412.8	2.8	100	SS	Wh-Lt.Gy	F-V.F		thn sm 211.1		Plug bit a-410' SS penetrated
429.0	18.2										at 409.0; dmb-dmsw Contact 409.0?
		433.8	21.0	97.4	SS	Wh-Lt.Gy	F-M+C Congl	Angular bleached	sms 418.0-418.3 thn sm 433.7		Thdd F-M grained unsorted ss +
								pbls in Congl			C Congl.
		441.0	7.2	83.3	SS	Lt.Gy	F-V.F				soft + fbl
		441.4	0.4	100	SS	Gy	M-C Congl			Numerous Gy pbls	
		447.2	5.8	100	SS	Lt.Gy	F-C	Some R. Chert pbls		OCC. Gy pbls	SS poorly sorted + well cemented
448.0	17.8										Thin weakly mineralized streak 446.8
		448.2	1.0	100	SS	Gy	F-C			Large Gy pbls	Large Gy Ms pbls = 60%
		457.8	9.6	100	SS	Lt.Gy	F-V.F				Bedding 65° to core 464.3-467.8
467.0	19.0	501.7	43.9	100	SS	Gy	F-M			Gn sms + pbls	
										486.1-486.6	
										Gn pbls abundant	
										500.4-501.2	
503.0	17.0	503.0	1.3	100	Ms-sts	Gn					

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$
446.8	0.1	0.05		15.2					
Sample No. 339 Actual Core 0.1'									

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			446.8	0.1	0.02	
			Babbel probe results			

*Assays marked "e" are from lab gamma ray readings

Hole No. A-13

RECEIVED
AUG 29 1955

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-1 ( )
Inclination Vert Bearing down
Total depth 502
Collar elev. 4,484.4 T P
Area San Rafael Reef

Map coord (T) N503,177.2 E496,607.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

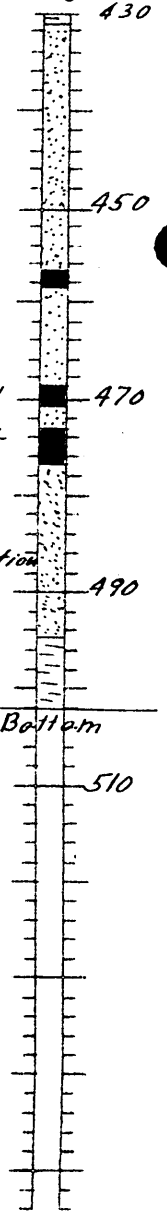
Claim Dede No. 8
Date completed 7-15-55
Date logged 7-16-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Ore Hole OBSS from 430.9 to 490.0 thick 59.1 ; SS color Wh-Lt.Gy ; MS — ; Cbn. —

DRILL LOG		LITHOLOGIC LOG									
Depth	~~Rec ft.~~ sample interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		432.0	2.0		Ms-sts	Rt Gn					Non-Core throughout; Cuttings
430-445	5'	455.0	23.0		SS	Wh-Lt.Gy	F-M				sampled 430-502; projected Jmb-Jmsw contact 430.9
		457.0	2.0		SS	Wh-Lt.Gy	F-M-V.C				
445-455	2'	463.0	5.0		SS	Wh-Lt.Gy	F-M				
		495.0	32.0		SS	Wh-Lt.Gy	F-V.F				
		502.0	7.0		Ms-sts	Rt Gn					Driller reports Ms penetrated
455-470	1'										at 490 ft.
470-480	2'										
480-502	5'										No significant radioactivity detected in cuttings sampled. Sub-ore grade U_3O_8 mineralization indicated by probe 458.2-459.8, 468.6-470.4, 472.4-473.4, and 476.9-477.3. U_3O_8 mineralization of ore-grade and thickness indicated by probe 473.7-476.9

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													459.8	1.6	0.06	
													470.4	1.8	0.06	
													473.7	1.3	0.03	
													476.9	3.2	0.22	
													477.3	0.4	0.03	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-2 ( )
Inclination Vert. Bearing down
Total depth 500
Collar elev 4479.8 T P
Area San Rafael Reef

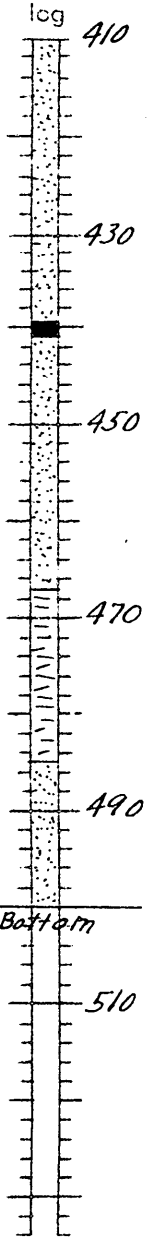
Map coord (T) N503152.2 E 496,455.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 7-14-55
Date logged 7-15-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBS: from 410.0 to 467.0 thick 57.0 ; SS color Wh-Lt-Gy , MS — , Cbn. —

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	~~Recd.~~ Sample Interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		467.0	57.0		SS	Wh-Lt-Gy	F-M				Non-Core throughout; Cuttings
		485.0	18.0		Ms-Sts	RtGn					sampled 420-500; Projected
420-435	5'	500.0	15.0		SS	Wh-Lt-Gy	F-V.F				Jmb-Jmsw contact 410.0
435-445	2'										
445-465	1'										No significant radioactivity
											detected in cuttings sampled.
465-475	2'										Probe indicates sub-ore grade
475-500	5'										U_3O_8 mineralization 439.8-441.1

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													441.1	1.3	0.03	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-2

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-3 ( )
Inclination Vert Bearing down
Total depth 482
Collar elev. 4487.7 T P
Area San Rafael Reef

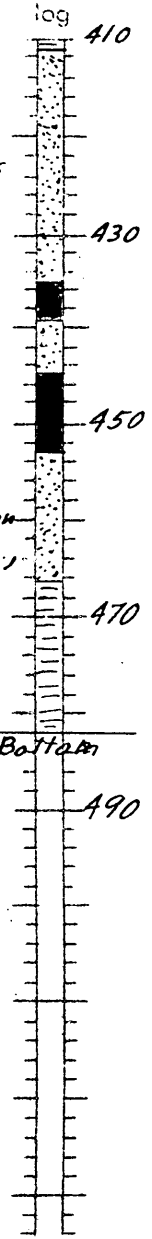
Map coord (T) N503,097.4 E 496,367.2
Map coord (P)
Sec. 22 T 21S R 14E
County Emery, Utah

Claim Dede No. 8
Date completed 7-13-55
Date logged 7-14-55
Logged by J C Morgan

Rev		
Ed		

Summary of log: Ore Hole Core from 411.2 to 466.0 54.8 SS color Wh-Lt. Gy MS — Cbn —

Graphic log



DRILL LOG Depth	~~Rec. ft.~~ Sample Interval	LITHOLOGIC LOG Base	Thick	Rec. %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		415.0	5.0		Ms-sts	R+Gn					Non-Core throughout; Cuttings
		425.0	10.0		SS	Wh-Lt.Gy	M-F				sampled 410-482; Predected
410-425	5'	427.0	2.0		SS	Wh-Lt.Gy	M-F-C				Jmb-Jmsw Contact 411.2
		466.0	39.0		SS	Wh-Lt.Gy	M-F				
425-435	2'	482.0	16.0		Ms-sts	R+Gn					Hole Caving badly all samples
											contaminated & unreliable.
435-450	1'										Driller reports Ms penetrated
											at 466.0 ft
450-460	2'										
											No significant radioactivity
460-482	5'										detected in cuttings sampled.
											Sub-ore grade U_3O_8 mineralization
											indicated by probe 435.3-437.3,
											438.8-439.4, 445.2-446.0, + 451.5
											453.5 U_3O_8 mineralization of
											ore-grade + thickness indicated
											by probe 437.3-438.8 + 446.0-
											451.5

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
													437.3	2.0	0.06	
													438.8	1.5	0.17	
													439.4	0.6	0.05	
													446.0	0.8	0.04	
													451.5	5.5	0.18	
													453.5	2.0	0.05	
													Bobbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-3

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-4 ( )
Inclination Vert Bearing down
Total depth 489
Collar elev. 4,505.3 T P
Area San Rafael Reef

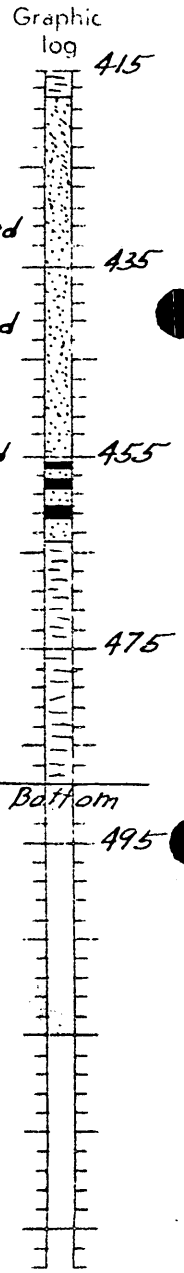
Map coord (T) N503,260.5 E496,304.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 8
Date completed 7-15-55
Date logged 7-16-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 418.6 to 464.0 thick 45.4 ; SS color Wh-Lt Gy ; MS — ; Cbn. Some spx

DRILL LOG		LITHOLOGIC LOG									
Depth	~~Rec ft.~~ Sample Interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		418.0	3.0		Ms-Sts	Rt Gn					Non-Core throughout; Cuttings
		441.0	23.0		SS	Wh-Lt Gy	M-F		spx 436-437		sampled 415-489; Projected
415-425	5'	442.0	1.0		SS	Wh-Lt Gy	F-V.F				Jmb-Jmsw Contact 418.6
		449.0	7.0		SS	Wh-Lt Gy	F-M				
425-435	2'	464.0	15.0		SS	Wh-Lt Gy	F-V.F				Driller reports Ms penetrated
435-450	1'	489.0	25.0		Ms-Sts	Rt Gn					at 464
450-460	2'										
460-489	5'										No significant radioactivity
											detected in cuttings sampled
											Probe indicates sub-ore
											grade U_3O_8 mineralization
											455.2-455.9, 457.1-458.7,
											460.2-461.7



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													455.9	0.7	0.04	
													458.7	1.6	0.04	
													461.7	1.5	0.09	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 635041

Hole No. B-4

RECEIVED
AUG 29 1955

GEOLOGIC AND ASSAY LOGS

Drill hole No. B-7 ( )
Inclination Vert Bearing down
Total depth 411
Collar elev 4,456.6 T P
Area San Rafael Reef

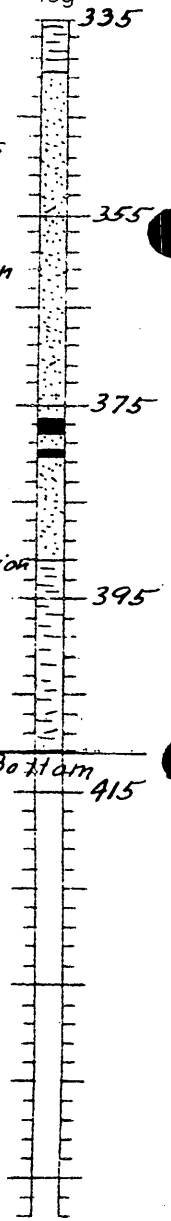
Map coord (T) N503267.1 E496,062.5
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 8
Date completed 7-17-55
Date logged 7-18-55
Logged by J C Morgan

Rev		
Ed		

Summary of log Ore Hole OBSS from 340.9 to 391.0 thick 50.1 SS color Wh-Lt.Gy V. MS — Cbn. Spx

Graphic log



DRILL LOG Depth	~~Rec ft~~ Sample Interval	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		346.5	11.5		Ms-sts	R+Gn					Non-Core throughout; Cuttings
		350.0	3.5		SS	Wh-Lt.Gy	F-V.F				sampled 335-411; Projected
335-355	5'	379.0	29.0		SS	Wh-Lt.Gy	M-F				Jmb-Jmsw Contact 340.9
355-365	2'	391.0	12.0		SS	Wh-Lt.Gy	F-V.F		FKS 379-384		
365-380	1'	411.0	20.0		Ms-sts	R+Gn					Driller reports Ms penetration
380-390	2'										at 391.0 ft.
390-411	5'										
											No significant radioactivity
											detected in cuttings sampled.
											Probe Indicates U_3O_8 mineral-
											ization of ore grade & thickness
											376.6-377.9, Probe indicates
											sub-ore grade U_3O_8 mineralization
											380.0-380.9

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			377.9	1.3	0.10	
			380.9	0.9	0.07	
			Babbel	Probe	results	

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-7

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-8 ( )
Inclination Vert Bearing down
Total depth 415
Collar elev. 4483.8 T ____ P
Area San Rafael Reef

Map coord (T) N503,265.9 E495903.6
Map coord (P) ____
Sec. 22 T 21 S R 14E
Co., State Emery, Utah

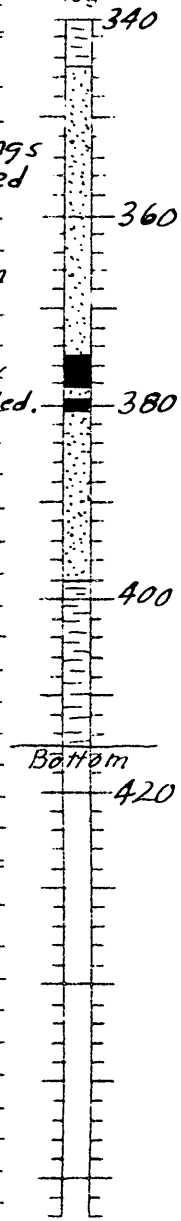
Claim Dede No. 8
Date completed 7-18-55
Date logged 7-18-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 344.8 to 398.0 thick 53.2 ; SS color Wh-Lt Gy ; MS — ; Cbn. SPX

DRILL LOG		LITHOLOGIC LOG									
Depth	~~Rec ft~~ Sample Interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		345.0	5.0		Ms-Sts	Rt Gn					Non-Core throughout; Cuttings
		371.0	26.0		SS	Wh-Lt Gy	F-V.F				sampled 340-415; projected
340-360	5'	389.0	18.0		SS	Wh-Lt Gy	M-F		SPX 475-476		Jmb-Jmsw Contact 344.8
		398.0	19.0		SS	Wh-Lt Gy	F-V.F				
360-370	2'	415.0	17.0		Ms-Sts	Rt Gn					Driller reports Ms penetration
370-385	1'										at 498 ft
385-395	2'										No significant radioactivity
395-415	5'										detected in cuttings sampled.
											Probe indicates sub-ore
											grade U_3O_8 mineralization
											374.8 - 378.2, 379.9
											380.3

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													378.2	3.4	0.02	
													380.3	0.4	0.02	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-8

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-9 ( )
Inclination Vert Bearing down
Total depth 416.0
Collar elev. 4,475.8 T P
Area San Rafael Reef

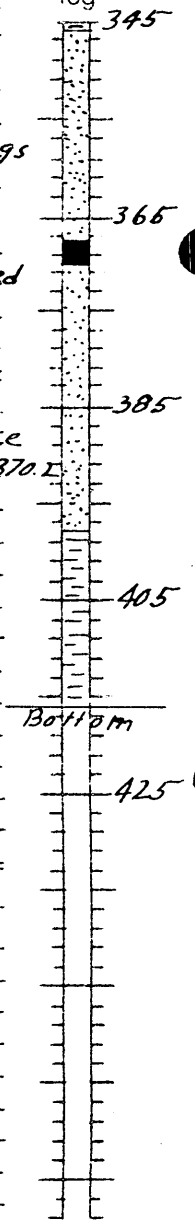
Map coord (T) N503,101.6 E495,900.9
Map coord (P)
Sec. 22 T 21S R 14E
Co., State Emery, Utah

Claim Dede No. 8
Date completed 7-19-55
Date logged 7-20-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole. OBSS from 345.4 to 498.0 thick 52.6 ; SS color Wh-Lt.Gy ; MS — ; Cbn. —

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	~~Rec %~~ Sample Interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		347.5	2.5		Ms-Sts	Rt Gn					Non-Core throughout ; Cuttings
		378.0	30.5		SS	Wh-Lt.Gy	M-F				sampled 340-416; Projected
340-360	5'	400.0	22.0		SS	Wh-Lt.Gy	F-V.F				Jmb-Jmsw contact 345.4
360-370	2'	416.0	16.0		Ms-Sts	Rt Gn					
											Driller reports Ms penetrated
370-385	1'										at 398.0 ft.
385-395	2'										No significant radioactivity
											detected in Cuttings
395-416	5'										sampled. Probe indicates trace
											U_3O_8 mineralization 367.4-370.2

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													370.2	2.8	Tr	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-9

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-10 ( )
Inclination Vert Bearing down
Total depth 414
Collar elev. 4,453.4 T P
Area San Rafael Reef

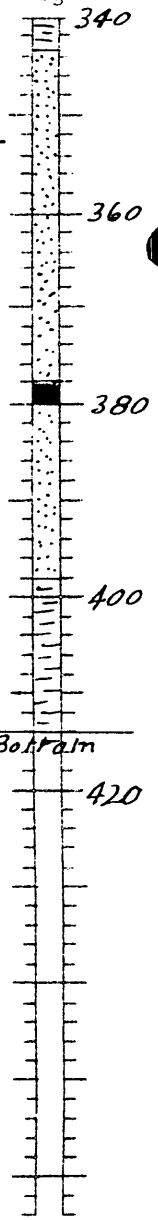
Map coord (T) N503,137.9 E 496,077.0
Map coord (P)
Sec. 22 T 21S R 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 7-16-55
Date logged 7-17-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 343.5 to 398.0 thick 54.5 SS color Wh-Lt.Gy MS — Cbn. Spx

Graphic log



DRILL LOG Depth	~~Rec ft.~~ Sample Interval	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		346.5	6.5		Ms-sts	R+Gn					No [redacted]ore throughout; Cuttings
		350.0	3.5		SS	Lt.Gy.Gn	F-V.F				sampled 340-414, Projected
340-360	5'	360.0	5.0		SS	Lt.Gy-Wh	F-V.F				Jmb-Jmsw contact 343.5
360-370	2'	368.0	8.0		SS	Wh-Lt.Gy	F-V.F-C				
		398.0	30.0		SS	Wh-Lt.Gy	F-V.F		Spx 370-375		Driller reports very hard rock
370-385	1'								382-391		382-391
385-395	2'										
											Driller reports Ms penetration
395-414	5'										at 398 ft.
											No significant radioactivity
											detected in cuttings sampled.
											Probe indicates trace U_3O_8
											mineralization 378-380

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			380.0	2.0	Tr	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-10

RECEIVED
AUG 29 1955

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

Surname copy
Murphy
Ellis
Martin
Johnson
Mitchell

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

JUL 2 8 1955

Re: Docket No. DMEA-3620 (Uranium)
Contract No. Idm-E792
Uranium Prospectors Company, Ltd.
Dede, et al., claims
Emery County, Utah

Dear Mr. Traver:

This is to acknowledge receipt of the captioned Operator's Monthly Progress Report for the month of May transmitted with your memorandum dated July 18, 1955.

We note the Operator states that ". . . the ore-bearing sandstone has been found to be extremely variable in thickness, and in places it is considerably thicker than anticipated. * * * * * As a consequence, it is anticipated that the allotted core footage will have been used prior to completion of the first stage drilling."

You will note the contract does not provide for core drilling in Stage II; therefore if additional core drilling is required to complete the 17 drill holes in Stage I, an amendment providing additional funds for core-drilling appears to be indicated.

We would appreciate your comments regarding the action which should be taken with regard to this question.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (JHB)

APPROVED:

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

Thor H. Kiilsgaard
Member, Geological Survey (JHB)

FMMurphy/gla
7-27-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy

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

RECEIVED

224 New Customhouse
Denver 2, Colorado

July 26, 1955

Uranium Prospectors Company, Ltd.
718 North 5th Street
Grand Junction, Colorado

Attention: Mr. E. C. Deringer

Re: Docket DMEA-3620
Contract Idm-E792

Gentlemen:

With reference to your letter of July 12, 1955 wherein you request the Region III DMEA Field Team authorization for performance of work under Stage II of the contract this constitutes confirmation of the Government's verbal approval of the same date for you to perform the work only as outlined under Stage II of the contract.

The additional four holes beyond the eight that are allowed which you have requested under Stage II will have to be referred to the Washington office, DMEA for consideration.

Nothing in the Stage II approval shall be construed to increase the estimated total cost of the project, the amount of the Government's contribution, nor any item of allowable cost which is expressly designated "allowable maximum."

Very truly yours,

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

WMT:sr

cc Subject
Chairman Op. Comm. (4)
Harshman
Wilson
Osterstock
Townsend
Chron
Hasler
Amendment - Christensen

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

224 New Customhouse
Denver 2, Colorado

July 26, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: DMEA-3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., (Dede, Pee Wee and Simon J. claims), Emery County, Utah

Enclosed are four copies of the following material relative to an amendment to the subject docket:

1. Letter from the Operator dated July 12, 1955

2. Memorandum dated July 15, 1955 from J. W. Hasler, USGS, with recommendations and accompanying map Figure 1

3. Memorandum dated July 20, 1955 from E. N. Harshman, member of Region III Field Team transmitting Hasler's memorandum

4. Memorandum from S. R. Wilson dated July 12, 1955 with recommendations for 8 holes under Stage II

5. Teletype from J. W. Hasler recommending 3 holes in addition to the 8 holes authorized by contract under Stage II

6. Teletype from S. R. Wilson, USBM, with the same recommendations as Item 5

7. Nine extra copies of the map of Figure 1 accompanying Hasler's memorandum.

In order to eliminate a possible suspension of operations the Region III Field Team authorized the performance of Stage II drilling of 8 holes. However, it is not considered within our delegated authority to approve the additional four holes and transfer of funds from Stage I to Stage II as requested by the Operator.

The engineer and geologist recommend only three of the holes requested (B-5, B-6, B-12) and the Operator later indicated such a change would be agreeable to him.

The Region III Field Team concurs with the engineer and geologist and recommends that you prepare as soon as possible an amendment to allow the drilling of the 3 holes, Nos. B-5, B-6 and B-12 at the locations shown on the map Figure 1 attached to Hasler's memorandum; also that the amendment allow for the transfer of funds saved from Stage I to Stage II for the performance of the work requested.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

Uranium Prospectors Co., Ltd.

Phone 1529 718 North 5th St.

GRAND JUNCTION, COLORADO

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AUG - 1 1955

DMEA
Do[illegible]d.

JUL 13 1955

BUREAU OF MINES
Denver, Colorado

July 12, 1955

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

Re: Docket DMEA-3620 (Uranium)
Contract Idm-E792

Dear Mr. Traver:

Enclosed is our request for approval to drill proposed second stage holes under Contract Idm-E792. This request was submitted to Mr. J. W. Hasler for his approval prior to final preparation.

Very truly yours,

URANIUM PROSPECTORS CO., LTD.

D. C. Deringer
Vice President

Enclosures -

cc: J. W. Hasler

Uranium Prospectors Co., Ltd.

Phone 1529 718 North 5th St.

GRAND JUNCTION, COLORADO

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AUG - 1 1955

REQUEST FOR APPROVAL TO DRILL STAGE TWO HOLES AS PROPOSED ON ACCOMPANYING MAP

Docket DMEA-3620 (Uranium)
Contract Idm-E792

INTRODUCTION

On July 9, 1955 the Uranium Prospectors Company, Ltd. completed the 15th and final hole to be drilled under the first stage of the drilling authorized by contract Idm-E792. The contract specified 17 1st stage drill holes. However, the operator has petitioned for an amendment to the contract which would permit the drilling of only the 15 most southerly 1st stage drill holes. Since the drilling costs have been less than authorized by the contract, and since only 15 of the proposed holes have been drilled, only a portion of the 1st stage drill funds have been used. The operator has requested government permission to use these excess funds, together with the saving to be gained from reduced drilling costs under 2nd stage drilling for additional 2nd stage drilling. The foregoing was discussed on the telephone by Mr. Deringer and Mr. Traver on July 6th, and verbal agreement was given by Mr. Traver.

FIRST STAGE DRILLING RESULTS

Of the 15 completed drill holes, six have penetrated uranium mineral of ore grade and thickness. Four of the holes have disclosed uranium mineralization. Five of the ore holes (A-1, A-3, A-5, A-6, and A-8) are along an apparent northeast trend near the south boundary of the claim group and adjacent to the Jack Rabbit Group also controlled by Uranium Prospectors Company, Ltd. where a shaft is now nearing completion. Hole A-12 approximately 450 feet north of this apparent trend cut uranium mineral of ore grade in a lower ore horizon. The operator believes that if sufficient reserves can be developed around these ore holes, the deposits could be mined through the Jack Rabbit shaft.

Pertinent Data from the 1st stage drilling is tabulated below:

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SUMMARY 1ST STAGE DRILLING DATA

Hole No.	Non-Core	Core	Total	Assays Sample Interval	% U_3O_8	% $CaCO_3$	Base of Ore Below Contact
A-1	165	232	397	210.8-211.8	0.22	7.5	38.2'
A-2	305	81	386	Barren			
A-3	330	90	420	378.8-379.9	0.33	5.0	30.5
A-4	430	70	500	Barren			
A-5		46		443.8-444.1	0.96	2.1	
				444.9-445.2	0.82	5.1	
A-5a	400	45	491	440.3-441.6	0.21e		
				444.1-444.8	1.85	0.2	
				447.6-447.9	0.07	8.4	
				456.9-457.6	0.08	5.6	41.2
A-6	400	89	489	446.0-447.1	0.18	12.3	
				450.5-451.6	0.07	18.1	
A-7	407	87	494	Barren			
A-8	445	70	515	476.1-476.4	0.03	8.6	
				476.4-477.4	0.32	6.8	
				477.4-478.3	0.15	10.8	34.9
A-9	390	74	464	Barren			
A-10	445	70	515	468.1-468.2	0.82e		
				479.4-479.5	0.04e		34.5
A-11	285	127	412	Barren			
A-12	400	74	474	448.7-449.4	0.49e		45.5
A-13	410	93	503	446.7-446.8	0.02e		37.8
A-14	285	87	372	337.8-338.0	0.01		35.0
A-15	405	251	656	457.3-457.9	0.02		21.1
Total	5,502	1,586	7,088				

Actual 1st stage drilling costs have been $1.50 per foot from 0-300 feet and $1.75 per foot from 300-600 feet for non-core drilling and $3.30 per foot for all core drilling as opposed to $1.75 per foot for all non-core drilling and $3.50 per foot for core drilling as permitted by the contract.

SUMMARY OF TOTAL ALLOWABLE DRILLING FUNDS
AND
ACTUAL 1ST STAGE DRILLING COSTS

Allowable 1st Stage Drilling Costs	$16,292.50
Less Actual Drilling Costs	13,778.55
1st Stage Funds Remaining	2,513.95
Allowable 2nd Stage Drilling Costs	6,335.00
Total Remaining Drilling Funds	$ 8,848.95

SECOND STAGE DRILLING PROPOSAL

It is recommended that a total of 12 non-core holes be drilled around, or in the immediate vicinity of the ore holes as shown on the accompanying maps.

Holes B-1 through B-5 and B-7 through B-11 are proposed to test the extent and continuity of the ore penetrated in holes A-3, A-5, A-6, and A-8. Holes B-6 and B-12 are proposed to test for continuity of ore along a possible parallel trend in a lower ore horizon. No offset holes are recommended around Hole A-1 because of the close proximity of claim boundaries to the south and west, and because of an adjacent drill hole to the north. Inaccessible terrain to the east precludes any close drilling to the east of Hole A-1. No more than 4 holes are proposed around any 1st stage hole, and no hole will be drilled any closer than 100 feet to any other hole.

The accompanying geologic logs demonstrate that the base of the ore-bearing sandstone lies from 26.6 to 92.3 feet below the upper Salt Wash contact throughout the drilling area. In the area recommended for 2nd stage drilling, however, the base of the ore-bearing sandstone varies in depth from 41 to 61 feet below the contact. It is suggested that some footage may be conserved if the 2nd stage holes are drilled only to intersect the base of the ore-bearing sandstone rather than a minimum of 70 feet below the contact as specified by the contract.

Estimated drilling footages for the proposed 2nd stage drilling are tabulated below.

Footage estimates are made on the basis of a minimum penetration of 70 feet below the base of the upper Salt Wash contact.

Hole No.	0-300	300-600	Total Depth
B-1	300	215	515
B-2	300	195	495
B-3	300	190	490
B-4	300	190	490
B-5	300	155	455
B-6	300	190	490
B-7	300	120	420
B-8	300	120	420
B-9	300	120	420
B-10	300	120	420
B-11	300	130	430
B-12	300	190	490
Totals	3,600	1,935	5,535

SECOND STAGE DRILLING MAXIMUM COSTS

3,600 feet @ $1.50 per foot	$5,400.00
1,935 feet @ $1.75 per foot	3,376.25
Total	$8,776.25

MINERAL DEPOSITS
DMEA
RECEIVED
JUL 18 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO
DMEA
Date Rec'd.
JUL 20 1955
BUREAU OF MINES
Denver, Colorado

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

RECEIVED
AUG - 1 1955

July 15, 1955

Memorandum

To: E. N. Harshman, Supervising Geologist, DMEA Field Team, Region III

From: J. William Hasler

Subject: DMEA 3620, Uranium Prospectors Company, Ltd., contract Idm-E 792 (Uranium)

The Uranium Prospectors Company, Ltd., completed stage I drilling under contract Idm-E 792 July 9, 1955. Of the 15 holes completed under stage I, 6 holes (A-1, A-3, A-5, A-6, A-8, and A-12) penetrated material of ore grade. Five of the holes (A-1, A-3, A-5, A-6, and A-8) appear to be on a northeast trend of mineralized ground near the southwest boundary of the Dede, Pee Wee, and Simon J. claims. Discovery of this ore-grade material covers a distance of approximately 500 feet and averages 0.85 feet thick, with thickness ranging from 0.3 feet to as much as 1.3 feet. The percent uranium ranges from 0.15 percent U_3O_8 to as much as 1.85 percent U_3O_8 and averages 0.65 percent U_3O_8. Although the ore-grade (by the applicant's standards) material discovered by this drilling does not constitute ore, (ore grade by U. S. Geological Survey being 1 foot or more thick assaying 0.10 percent U_3O_8 or 1.0 percent V_2O_5) there appears to be a definite zone that may develop into an ore body of rather significant size. Core recovery in the ore zones has been low and there may be ore of greater thickness than is shown as a result of current drilling. It is planned to test the validity and continuity of this apparent ore trend with a series of stage II holes. No more than 4 holes are proposed around any first-stage hole and no hole will be drilled any closer than 100 feet to any previously drilled or offset hole.

Ore-grade material was discovered in hole A-12 on the Dede No. 7 claim at a depth of 449 feet and it is planned to test a suggested northeast mineralized trend that roughly parallels the belt 450 feet farther south with proposed holes B-6 and B-12 (fig. 1).

It is questionable that diamond-drill hole A-12 cut ore-grade material in a lower bed than that found in the holes on the Dede No. 8 claim, as the ore depths between these series of holes do not appear to be enough to suggest two different ore zones. The material is, however, of high enough grade that it should be tested by additional drilling.

DMEA contract Idm-E 792 stipulates that only 8 drill holes shall be drilled on stage 2; however, stage I drilling has been done by the applicant at less expense than was allowed in the contract. His present figures indicate that he can drill four additional holes in stage II for the same amount stipulated in the contract.

It is concluded that stage I drilling has been successful enough that the results of this work warrants further drilling under stage II. It is, therefore, recommended that the applicant proceed immediately with the stage II drilling under the subject contract.

I have advised the applicant to formally request that stage II drilling be done and shall notify him verbally upon your decision as per our telephone conversation the morning of July 12. The applicant has informed me that the request and accompanying maps have already been mailed to the Field Team, Region III, and he has complied with the request to leave a copy with this office.

The applicant advised this office by telephone communication July 12, that they will drill only the eight proposed stage II holes on the Dede No. 8 claim, as verbally approved by W. M. Traver, E. N. Harshman, S. R. Wilson, and J. William Hasler on the same date. They do not desire to drill holes A-16 and A-17 as stipulated under stage I or even in relocated areas as suggested to them by me. Proposed stage II hole No. B-11 will not be drilled.

Enclosed are 9 copies of this memo and the accompanying figure recommending approval of stage II drilling.

D. D. Haynes for.
J. William Hasler
Geologist

JWH/mlr

Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3620 JULY 1955

EXPLANATION

Jmsw / Jmbb — FORMATION CONTACT BETWEEN MORRISON SALTWASH AND BRUSHY BASIN

6° — STRIKE AND DIP OF BEDS

ADIT

DRILL HOLES, (ATOMIC ENERGY COMMISION HOLES HAVE PREFIX A OR X, COMPANY HOLES HAVE PREFIX RR, STAGE II HOLES HAVE PREFIX A)

○ BARREN

ø MINERALIZED

● ORE-BEARING, 1 FOOT OR MORE OF 0.10% U_3O_8 OR BETTER

+ LOCATION OF PROPOSED DRILL HOLE, STAGE II

NOTE: GEOLOGY, CLAIM BOUNDARIES, LAND SECTION CORNER, AND DRILL HOLE LOCATIONS FROM OWNERS MAP

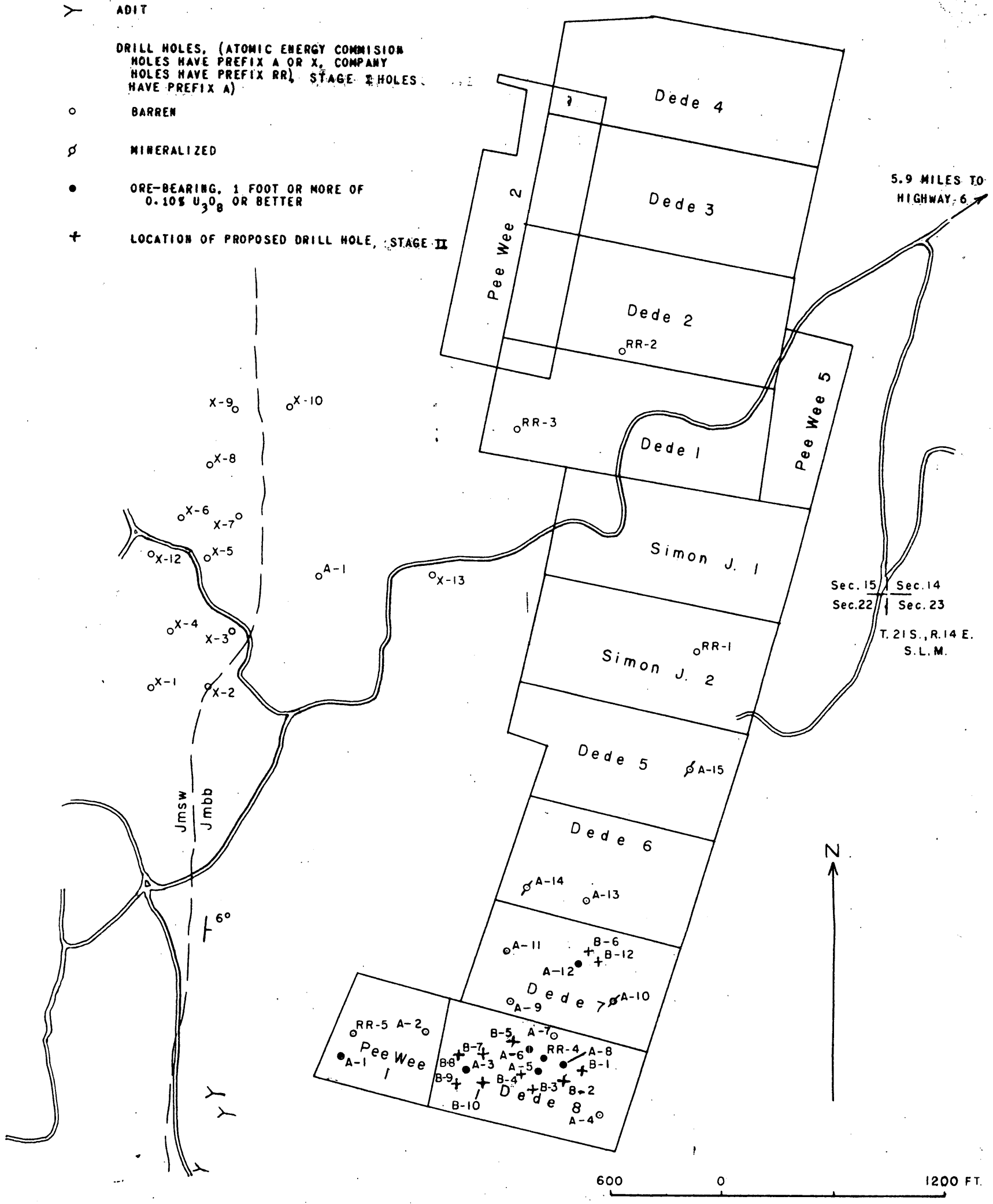


Figure 1. MAP SHOWING LOCATION OF DRILL HOLES ON OR NEAR DEDE, PEE WEE AND SIMON J GROUPS OF CLAIMS AND PROPOSED STAGE II DRILL HOLES, URANIUM PROSPECTORS, COMPANY LTD. EMERY COUNTY, UTAH

IN REPLY REFER TO:
DMEA
Date Rec'd.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
AUG - 1 1955

JUL 20 1955
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

July 20, 1955

Memorandum

To: DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah

Enclosed are 10 copies of a memorandum by J. W. Hasler, U. S. Geological Survey, in which certain recommendations are made regarding stage II drilling under the subject contract.

The applicant requested permission to proceed with the drilling of 12 stage II holes numbered B-1 to B-12 as shown on the map accompanying the request. In a telephone conversation with Hasler, the applicant withdrew the request for hole No. B-11.

After conversations with the Field Team and with S. R. Wilson on ~~June~~ July 12, 1955, Hasler gave the applicant verbal authority to proceed with the drilling of 8 second-stage holes as follows: B-1 to B-4, inclusive, and B-7 to B-10, inclusive. Although holes B-5, B-6, and B-12 are recommended by Hasler and appear to be justified geologically, contract limitations prohibit the drilling of these three holes until an amendment to the contract is drawn.

Upon receipt of approval from Wilson for the 8 second-stage holes, confirmation of Hasler's verbal approval will be in order.

A transfer of funds from stage I to stage II drilling, to permit the drilling of holes Nos. B-5, B-6, and B-12, appears in the Government's interest and is recommended.

The applicant's request to drill to the bottom of the ore-bearing sandstone rather than to the arbitrary depth of 70 feet below the top of the Salt Wash appears reasonable and is recommended.

Nine extra copies of the map accompanying Hasler's memorandum are enclosed also.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (19)

DMEA
Date Rec'd.
JUL 22 1955
BUREAU OF MINES
Denver, Colorado
RECEIVED
AUG - 1 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

July 21, 1955

Airmail

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd., Dede, Pee Wee and Simon J. claims, Emery County, Utah

The subject contract allows core and noncore drilling in two stages. Drilling under Stage I has been completed and ore mineralization was encountered in 6 of the 15 holes drilled under Stage I. The results obtained from this drilling indicate that the noncore drilling under Stage II is warranted.

A memorandum dated July 15, 1955, from J. William Hasler to E. N. Harshman outlines the recommendations of the Geological Survey, Grand Junction, Colorado. Hasler recommends that the contractor be allowed to drill 8 offset holes. The 8 holes, as illustrated on a plan map attached to Hasler's memorandum, are holes B-1, B-2, B-3, B-4, B-7, B-8, B-9 and B-10.

I concur in Hasler's recommendations concerning Stage II drilling.

Stephen R Wilson
Stephen R. Wilson

cc: J. B. Clemmer

B5, B6, B12

RECEIVED
AUG - 1 1955

DN 235 DL UR MINES GA PLS

GJ86 WITH MSG

GJ TWX 809

FM US GEOLOGICAL SURVEY GRAND JUNCTION COLO JULY 22/2200Z
TO US BUREAU OF MINES DENVER COLO

FOR W M TRAVER
FROM J WILLIAM HASLER

DMEA DOCKET 3620 - URANIUM PROSPECTORS COMPANY
I RECOMMEND APPROVAL OF HOLES B-5 CMM B-6 AND B-12 OF THOSE REQUESTED
FOR STAGE TWO IN OPERATOR"S LETTER JUNE 27 1955 PD HOLE B-11
RECOMMENDED FOR DISAPPROVAL

CFN 3620 B-5 B-6 B-12 27 1955 B-11
22/2202Z

END PLS ACK TNX BT
MSG RECD OK FTM

BURT
CDPES
BUR MINES DN 235 GA PLS

BUR MINES SU 89 7-25-55 3-55 PM

W M TEXX TRAVER

RE DOCKET NO. DMEA-3620, URANIUM PROSPECTORS COMPANY LTD. THIS OFFICE RECOMMENDS THAT STAGE II DRILLING SHOULD INCLUDE PROPOSED HOLES B-5, B-6 AND B-12 IN ADDITION TO THE EIGHT HOLES RECOMMENDED IN MEMORANDUM DATED JULY 21, 1955. HOLE LOCATIONS SHOWN ON PLANT XXXX PLAN ATTACHED TO J W HASLERS MEMORANDUM TO E N HARSHMAN DATED JULY 15, 1955. PROPOEXXX PROPOSED HOLE B-11 IS NOT RECOMMENDED.

STEPEHEN R WILSON

EBD MSG PLS ACK LT 359
MSG RECD OK FTM

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-1 ( )
Inclination Vert Bearing down
Total depth 397
Collar elev. 4,395.2 T P
Area San Rafael Reef

Map coord (T) N503,282.3 E495,325.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Pee Wee No. 1
Date completed 5-25-55
Date logged 5-26-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log ore hole ; OBSS from 173.6 to 254.5 thick 80.9 ; SS color Gy ; MS some ; Cbn. some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		173.6	8.6	100	Ibd Ms Sts, SS	R-Gn-ppl	VF & silty		Sm 172.8		Plug bit 0-165.0
		175.4	1.8	100	SS	Lt. Gy	V.F.				Jmb-Jmsw contact gradational ? 173.6
		176.3	0.9	100	Ms	D. Gy					
184.0	18.0	197.3	11.0	90.9	SS	Lt. Gy	M-Congl.	Bleached angular pbls in congl.			Alternating lenses M-grained well sorted SS & M-C grained congl; pbls to ½"
		197.6	0.3	100	Ms	Gn					
203.0	19.0	210.6	13.0	100	SS	Wh	F			Occ. Gn pbls	
		210.8	0.2	100	SS	Lt. Gy	C	Some bleached grains			
		213.8	3.0	33.3	SS	Lt. Gy	F		Sm 211.8	Gn pbls at base	Good R.A. in vitreous asphaltic sm 211.8
214.0	10.0										1.0' core loss in ore zone
		215.6	1.8	100	SS	Lt. Gy	M-C		Sm 215.6	Some Gy Pbls	
233.0	11.7	244.5	28.9	65.3	SS	Lt. Gy	F			Abundany Gy sms	Xbdg @ 75° 215.6-216.0; SS soft &
										236.0-244.5	poorly cemented
249.0	13.3	251.8	7.3	100	SS	Lt. Gy	V.F				Becomes silty near base
		252.3	0.5	100	Ms	D Gy					
		254.5	2.2	100	SS	Lt. Gy	V.F			Thn. Gy sms.	Well cemented; Xbdg @ 65° near base
264.0	15.0	272.9	18.4	100	Ms-sts	D Gy					
		276.0	3.1	100	SS	Wh	F-V.F		Spr. 274		Hard well cemented
		280.0	4.0	100	Ms-sts	R+Gn			Sm 278		
283.0	19.0	281.3	1.3	100	SS	Lt. Gy	F				Very hard & well cemented
		306.2	24.9	100	Ms-sts	R+Gn					Occ thn lenses Gy silty SS

Graphic log: 165, 185, 205, 225, 245, 265, 285

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
211.8	1.0'	0.22		7.5									211.8	1.0'	0.27	
Sample No. 324													Babbel probe results			
Actual core 0.1'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835043

Hole No. A-1 Page 1 of 2

GEOLOGIC AND ASSAY LOGS

Drill Hole No. A-1 ( )
Inclination Vert. Bearing down
Total depth 397.0
Collar elev 4,395.2 T P
Area San Rafael Reef

Map coord (T) N503,282.3 E495,325.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Pee Wee No. 1
Date completed 5-25-55
Date logged 5-26-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log OBSS from to Thick SS color MS Chr

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access Min's.	Chr	MS in SS	Remarks
		311.0	4.8	100	SS	Wh	F				Hard + well cemented
		311.6	0.6	100	Ms	R+Gn					
		315.3	3.7	100	SS	Wh	F			Gn pbls near base	Very hard + well cemented
		317.4	2.1	100	Ms	R+Gn			Sm 317.2		
		319.2	1.8	100	SS	Lt. Gy	F				
321.0	19.0	321.4	2.2	100	Ms	Gn					Becomes sandy near base
		327.2	5.8	100	SS-Sts	Gy	VF+silty				Tbd sts + silty SS
		331.6	4.4	100	Sts	R+Gn					
		339.0	7.4	100	SS	Wh	F				
340.0	19.0	347.7	8.7	100	Ms-Sts	R+Gn					Thn. gypsum stngrs. 344.0-346.0
		354.0	6.3	100	SS	Wh	F				Becomes coarse + poorly sorted at base
359.0	19.0	361.0	7.0	100	Ms-Sts	R+Gn					
378.0		370.2	9.2	100	SS	Wh	V.F.			Gn pbls + sms.	364.0-370.2
~~368.0~~	19.0	384.6	14.4	100	Sts	R+Gn					Abundant Gypsum nodules 378.6-385.2;
											Some R. chert nodules 382.2-385.2
		390.6	6.0	100	SS	Lt.Gy	F				Grain becomes coarse near base; Numerous
											fibrous gypsum veins throughout
		394.2	3.6	100	Sts	R+Gn					Some Gypsum + R. chert nodules throughout
											Base Jmsw 394.2
397.0	19.0	397.0	2.8	100	Gypsum	Wh	Massive				Some contorted Gy sts beds throughout
											Abundant chert nodules near top

Graphic log: 285, 305, 325, 345, 365, 385, Bottom 397, 405

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 8456 11

Hole No. A-1 Page 2 of 2

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-2 ( )
Inclination Vert Bearing down
Total depth 386.0
Collar elev. 4481.0 T P
Area San Rafael Reef

Map coord (T) N503400.2 E495,765.8
Map coord (P)
Sec. 22 T. 21 S R. 14 E
Co. State Emery, Utah

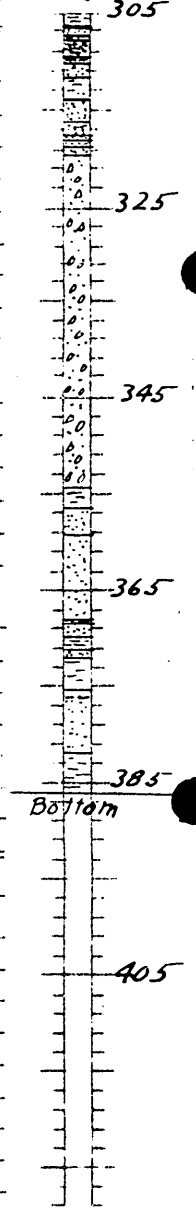
Claim Pee Wee No. 1
Date completed 6-4-55
Date logged 6-4-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Barren Hole, OBSS from 318.4 to 368.0 thick 49.6 SS color Lt. Gy ; MS Pbls sparse Cbn sparse

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
319.0	14.0	306.8	1.8	100	Sts	R+Gn					Plug bit 0-305; Jmb-Jmsw
		307.5	0.7	100	SS	Gy Gn	V.F+silty				Contact 307.9 ???
		307.9	0.4	100	Ms	R+Gn					
		309.5	1.6	100	SS	Lt. Gy	F-V.F				Well cemented
		310.0	0.5	100	Sts	R+Gn					
		311.9	1.9	100	SS	Lt. Gy	F-V.F				Well cemented
		314.1	2.2	100	Sts	R+Gn					
		316.3	2.2	100	SS	Gy Gn	VF+silty				
		317.5	1.2	100	Sts	R+Gn					
		317.9	0.4	100	SS	Gy Gn	V.F				
		318.4	0.5	100	SS	D Gy Gn	V.F				
338.0	18.7	319.8	1.4	100	SS	Wh	F				Limy very hard
		354.7	34.9	99.0	SS	Lt. Gy	F-Congl	Angular bleached		Some Gn Pbls	Alternating bands F-g SS + Congl
		356.8	2.1	100	Ms Sts	Gn		Pbls + some R. Chert		Throughout	Xbdg @ 75° near base
357.0	18.0	359.5	2.7	100	SS	Wh	F-V.F		SPK 354-358.7		
		368.0	8.5	100	SS	Lt. Gy	M-F				
		368.9	0.9	100	Ms	Gn					
		370.1	1.2	100	SS	D Gy	V.F+silty				
371.0	14.0	371.0	0.9	100	Ms	Gn					
		372.2	1.2	100	SS	Gy	V.F+silty				
		375.2	3.0	100	Sts	R+Gn					
		382.2	7.0	100	SS	Lt. Gy	F-V.F			Sm-376.2-376.4	Silty 380.0-382.2
386.0	12.0	386.0	3.8	52.7	Ms	R+Gn					

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-2 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-3 ( )
Inclination Vert Bearing down
Total depth 420.0
Collar elev. 4471.0 T P
Area San Rafael Reef

Map coord (T) N503,195.4 E495,987.1
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No 8
Date completed 6-7-55
Date logged 6-7-55
Logged by J E Morgan

Rev		
Ed		

Summary of log ore hole : OBSS from 349.4 to 404.2 th. 54.8 : SS color Lt. Gy : MS Some pbls. : Cbn. Locally abundant in mineralized zone

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
347.0	17.0	331.4	1.4	100	SS	Gy Gn	F+silty				Plug bit 0-~~331.4~~ 330.0 Jmb:Jmsw contact
		333.0	1.6	100	Sts	R+Gn					349.4 ?
		334.0	1.0	100	SS	Gy Gn	V.F+silty				
		346.8	12.8	100	Ms sts	R+Gn					
		347.5	0.7	100	SS	Gy Gn	VF+silty				Very well cemented
		348.1	0.6	100	Ms	Gn					
		349.4	1.3	100	SS	Gy Gn	V.F				Very well cemented, $CaCO_3$ in vert fracture
		349.8	0.4	100	Ms	DGy			Spx		
		351.6	1.8	100	SS	Lt. Gy	F				Well cemented
		352.2	0.6	100	Ms	Gn					
		358.9	6.7	100	SS	Lt. Gy	M-F			Some Gn pbls	
366.0	19.0	370.4	11.5	100	SS	Lt. Gy	F-Congl	Angular bleached pbls		Some Gn pbls	Alternating bands F.g SS+ Congl.
		378.8	8.4	100	SS	Lt. Gy					
		379.9	1.1	100	SS	DGy-Bl	V.F+silty		Abundant Sms.		U_3O_8 mineralization
385.0	19.0	386.2	6.3	100	SS	Lt. Gy	V.F			0.2' Gn sm at base	Xbdg @ 70° near base
		388.7	2.5	100	SS	Lt. Gy	M				
		389.9	1.2	100	SS	Lt. Gy	V.F.				Xbdg @ 75°
404.0	19.0	404.2	14.3	100	SS	Lt. Gy	F-V.F			Gn pbls at base	Xbdg @ 75° near top
420.0	14.4	420.0	15.6	89.7	Ms-Sts	R+Gn					

Graphic

330 350 370 390 410 430 Bottom

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
379.9	1.1	0.33		5.0									380.6	1.1	0.39	
Sample No. 326													Babbel probe results			
1.1' actual Core																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-3 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-4 ( )
Inclination Vert Bearing down
Total depth 500
Collar elev 4,462.9 T P
Area San Rafael Reef

Map coord (T) N502,934.3 E496,723.8
Map coord (P)
Sec. 22 T. 21 S. R. 14 E
Co., State Emery, Utah

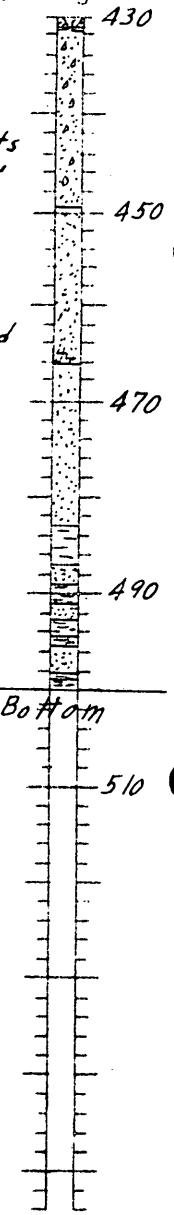
Claim Dede No. 8
Date completed 6-24-55
Date logged 6-24-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Barren Hole OBSS from 428.0 to 483.4 thick 55.4 SS color Lt. Gy ; MS Sparse ; Cbn. Some FKs + sms

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
		431.4	1.4	100	SS	Lt. Gy	F-V.F				Plug bit 0-430; Driller reports
		431.5	0.1	100	Ms	Gn					sandstone penetrated at 428.0'
449.0	19.0	449.5	18.0	100	SS	Lt. Gy	F-M+C Congl	Angular bleached			Jmb-Jmsw Contact 429'
								Pbls in Congl			Tbd. F-M unsorted ss + C Congl
		466.0	16.5	100	SS	Lt. Gy	F-V.F		Thin sms 449.5-450.5	Gy pbls + sms at base	Bdg @ 80° to core
468.0	19.0										
		483.4	17.4	100	SS	Lt. Gy	F-V.F		FKs 473.5-482.8		Grain at base M-C & poorly sorted
		487.3	3.9	84.9	Ms	Gn					
487.0	18.4	489.4	2.1	100	SS	Gy Gn	V.F-silty				
		490.0	0.6	100	Sts	R					
		491.0	1.0	100	SS	Gy Gn	V.F+silty	Abundant Qz + R			
		492.4	1.4	100	Sts	R		Chert pbls			
		494.3	1.9	100	SS	Lt. Gy Gn	V.F-F				Well cemented
		495.5	1.2	100	Sts	R+Gn					
		498.1	2.6	100	SS	Lt. Gy Gn R Br	V.F-F			Some R+Gn Pbls	Well cemented
		498.8	0.7	100	Ms	R+Gn					
500.0	12.7	500.0	1.2	100	Sts	Gn					

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-4

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-5 ( )
Inclination Vert Bearing Down
Total depth 446
Collar elev 4493.19 T P
Area San Rafael Reef

Map coord (T) N503 203.4 E 496 380.5
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Dede No 8
Date completed 6-9-55
Date logged 6-9-55
Logged by J E Morgan

Rev		
Ed		

Summary of log OBSS from 416.4 to — thick — SS color MS Cbn

DRILL LOG Depth	Rec	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		401.7	1.7	100	SS	Gy Gn	V.F.+ silty				Plug bit 0-400; Jmb-Jmsw
		403.7	2.0	100	Ms-Sts	R + Gn					Contact? 416.4
		409.7	6.0	100	SS	Gy Gn-Lt.Gy	F	Some R. Chert pbls			Very well cemented
412.0	12.0	412.0	2.3	100	Ms	R					
		416.4	4.4	100	Ms-SS	Gn	F+ silty				Ibd Ms + silty SS
431.0	19.0	419.4	3.0	100	SS	Lt. Gy	F				
		443.8	24.4	100	SS	Lt. Gy	F-M-Congl	Angular bleached Pbls		numerous sms + pbls 438.5-443.0	Alternating bands F-M gr ss + C Congl.
		444.1	0.3	100	SS	Bl-DGy	F		Thin vitreous sms		Carbon sms highly radioactive;
											Trace of Chalcopyrite
		444.9	0.8	100	SS	Lt. Gy	M			Gy sms + pbls	Very well cemented
		445.2	0.3	100	SS	Gy-Bl	M		Thin vitreous sms		Carbon sms highly radioactive; Tr.
446.0	15.0	446.0	0.8	100	SS	Lt. Gy	F-M				Chalcopyrite
											Note: Broken bit in hole at 446.0'
											Hole moved S 88° 42' E 8.8'
											and plug bitted to 442.0'. See
											log hole A-5a.

Graphic log: 400, 420, 440, 460

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$
444.1	0.3	0.96		2.1					
Sample No. 327		0.3' actual core							
445.2	0.3	0.82		5.1					
Sample No. 328		0.3' actual core							

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			444.1	0.3	1.0 +	
			445.2	0.3	1.0 +	
			Babbel Counter Check			

*Assays marked "e" are from lab gamma-ray readings

GPO 935041

Hole No. A-5 (see Hole A-5a)

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-5a ( )
Inclination Vert Bearing Down
Total depth 487.0
Collar elev. 4494.0 T P
Area San Rafael Reef

Map coord (T) N503194.6 E496380.7
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 8
Date completed 6-10-55
Date logged 6-10-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Ore hole ; OBSS from 4164 to 4713 thick 45.1 ; SS color Lt. Gy ; MS Pbls ; Cbn. locally abundant

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
461.0	18.7										Plug bit 0-442 (see log Hole A-5) Driller reports carbon in cuttings at 441.0'
		444.1	2.1	100	SS	Lt. Gy	F-M			Abundant Gn pbls	
		444.8	0.7	100	SS	Bl-D Gy	F-M	+ FKs	sms Abundant		Vitreous asphaltic sms highly radioactive
		446.8	2.0	100	SS	Lt. Gy	F-M			Gn & Gy pbls A	
		447.3	0.5	60.0	Ms	D Gy					
		447.6	0.3	100	SS	Gy	F-M		thn sms	Gn pbls at top	Weak radioactivity in carbon sms
		456.9	9.0	100	SS	Lt. Gy	F-C		thn sms	Gy pbls & sms 448.6-449.6	Well cemented; Grain becomes coarse near base; Xbdg @ 65°
		457.6	0.7	100	SS	Gy	M-C		sp X	Some Gy pbls.	Weak radioactivity
		458.2	0.6	100	SS	Lt. Gy	M-C				
		471.3	13.1	100	SS	Lt. Gy	F		thn sm 467.7	Gy pbls at base	
		476.6	5.3	75.5	Ms	Gn					
474.0	11.7	482.0	4.4	100	SS	Gy Gn-Lt. R Br	V. F + silty				
		487.0	5.0	88.0	Sts	R + Gn					Note: Hole deepened from 474.0-487.0 6-30-55 JEM
487.0	12.6										

Bottom

Sample Base	Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$
444.8	0.7	1.85		0.2					
Sample No. 329 actual Core 0.7'									
447.9	0.3	0.07		8.4					
Sample No. 330 actual Core 0.3'									
457.6	0.7	0.08		5.6					
Sample No. 331 actual Core 0.7'									

Interval Base	Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			441.6	1.3	0.21	
			444.8	0.7	1.00+	
			447.9	0.3	0.13	
			457.6	0.7	0.14	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-5a (See log A-5)

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-6 ( )
Inclination Vert Bearing down
Total depth 489
Collar elev. 4505.1 T P
Area San Rafael Reef

Map coord (T) N503353.1 E496333.7
Map coord (P)
Sec 22 T 21S R 14E
Co., State Emery, Utah

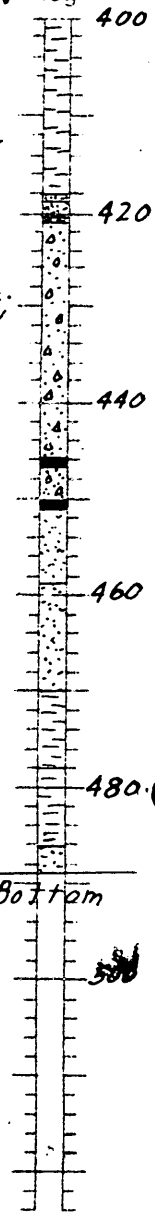
Claim Dede No. 8
Date completed 6-15-55
Date logged 6-16-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Ore hole OBSS from 420.3 to 470.0 Thk 49.7 SS color Lt. Gy MS thn sms + pbls locally Cbn minor sms + FKs

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
410.0	10.0	418.1	18.1	100	Ms-Sts.	R+Gn					Plug bit 0-400'; Jmb-Jmsw
		418.7	0.6	100	SS	DGy-Gn	F+silty		Some FKs.		Contact gradational 418.7
		420.3	1.6	100	SS	Lt. Gy	V.F				Very well cemented
		420.6	0.3	10.0	Ms	Gn					
427.5	17.5	446.0	25.3	100	SS	Lt. Gy	F-M-Congl	Angular bleached pbls	thn sms 425.8 FKs in		Tbd F-M gr SS + C Congl.
446.5	19.0	447.1	1.1	100	SS	Lt. Br-Gy	F-C		Ms sms	Abundant thn. Gy sms. + Pbls	Moderately radioactive throughout; well cemented
450.5	4.0	450.5	3.4	100	SS	Lt. Gy	F-Congl		Sms + FKs 450.0	Abundant Gy pbls	
459.0	8.3	451.1	0.6	100	SS	D Gy	F-C		thn sms	Abundant Gy pbls + sms	Moderate radioactivity in thn vitreous carbon sms
		470.0	18.9	100	SS	Lt. Gy	F			Numerous Gy Pbls 453.0-475.0	
478.0	17.7	486.2	16.2	91.4	Ms-sts.	R+Gn					
		488.1	1.9	100	SS	Lt. Gy	V.F			Some R. pbls	
489.0	11.0	489.0	0.9	100	SS	Lt. Gy-Br	V.F+silty				

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ ray	γ ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
447.1	1.1	0.18		12.3									447.9	1.1	0.26	
Sample No. 332 Actual Core 1.1'													452.4	0.6	0.05	
													Babbel probe results			
451.1	0.6	0.07		18.1												
Sample No. 333 Actual Core 0.6'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-6 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-7 ( )
Inclination Vert Bearing down
Total depth 494.0
Collar elev. 4,490.4 T P
Area San Rafael Reef

Map coord (T) N 503,395.5 E 496,461.0
Map coord (F)
Sec 22 T 21S R 14E
Co. State Emery, Utah

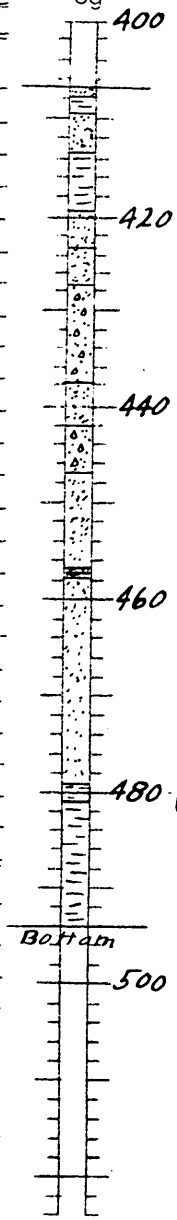
Claim Dede No. 8
Date completed 6-17-55
Date logged 6-17-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Barren Hole. OBSS from 423.4 to 478.9 Thick 55.5 SS color Lt. Gy. MS Some pbls. Cbn sparse

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min s.	Cbn	MS in SS	Remarks
		408.0	1.0	100	SS	Lt. Gy	F	R+Or Chert pbls			Plug bit 0-407
		409.8	1.8	100	Ms	R					
		413.5	3.7	100	SS	Gy Gn	V.F+silty	Some R Chert			
		419.7	6.2	100	Ms-sts	R+Gn					
422.5	14.0	423.4	3.7	59.4	SS	Lt.Gn-Lt.Gy	V.F				Jmb-Jmsw Contact 423.4?
		427.4	4.0	100	SS	Lt.Gy	F-M	Some R Chert	FRs 426.6-427.1		Xbdg @ 65° near base
		438.0	10.6	100	SS	Lt.Gy	F+M-C Congl				Tbd F-gr. ss + M-C Congl
441.5	19.0	442.0	4.0	100	SS	Lt.Gy	F				
		447.0	5.0	100	SS	Lt.Gy	F-V.C Congl			Some Gy pbls	
		457.0	10.0	100	SS	Lt.Gy	F			Abundant Gy pbls near base	
		457.1	0.1	100	Ms	Gn					
		457.7	0.6	100	SS	Lt.Gy	V.F				Well cemented; Xbdg @ 65°
460.5	19.0	457.9	0.2	100	SS	Lt.Gy	M-C Congl			Abundant Gy Pbls	Thin sm Gn Ms at base
		478.9	21.0	100	SS	Lt.Gy-Gy	V.F-F		Thin sms 460.0-460.3	Some Gy pbls	
477.0	16.5	481.0	2.1	100	Ms-sts	Gn					
		494.0	13.0	66.2	Ms-sts	R+Gn					
494.0	13.6										Note: Hole deepened from 477.0-494.0 6-30-55 GEM

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-7

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-8 ( )
Inclination Vert Bearing down
Total depth 515
Collar elev. 4505.7 T. P
Area San Rafael Reef

Map coord (T) N503,232.2 E 496,519.1
Map coord (P)
Sec 22 T 21S R 14E
Co., State Emery, Utah

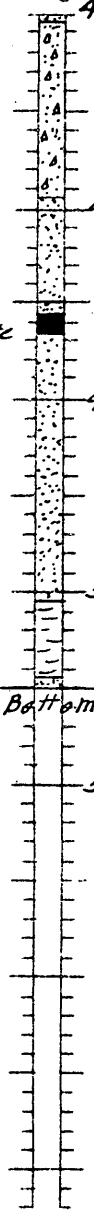
Claim Dede No. 8
Date completed 6-22-55
Date logged 6-23-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Ore hole, OBSS from 445.0 to 505.6 thick 60.6; SS color Lt. Gy; MS Sparse; Cbn. Sparse

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		445.9	0.9	100	SS	Lt. Gy	M-F		Thn sms 445.8		Plug bit 0-445; Projected
460.0	15.0	463.6	17.7	100	SS	Lt. Gy	F-C+Congl	Angular bleached Pbls + some R chert			Contact 445.0
											Tbd F-C unsorted ss + C congl
469.0	8.9	475.0	11.4	100	SS	Lt Gy	M-F			Abundant small Gy Pbls	Poorly sorted well cemented
469.5	0.5										
		476.1	1.1	100	SS	Lt. Gy	F				
		478.3	2.2	100	SS	Gy-Lt. Gy	C-V.F		thn sms		Good radioactivity in thn cbn sms; moderate
488.5	19.0										to weak radioactivity in enclosing SS.
											No visible U_3O_8 min'l. SS grades from
											C to V.F to P to base.
503.5	15.0	505.6	27.3	100	SS	Lt. Gy	F-V.F		Thn sms 491.5		
		513.8	8.2	46.3	Ms-sts	Gn					
515.0	6.0	515.0	1.2	100	SS	Gy Gn	V.F + silty				

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ ray %e U_3O_8	γ ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
476.1	0.3'	0.03		8.6									479.9	2.2	0.20	
Sample No. 334 0.3' actual core													Babbel probe results			
477.4	1.0	0.32		6.8												
Sample No 335 1.0' actual core																
478.2	0.9	0.15		10.8												
Sample No. 336 0.9' actual core																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-8

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-9 ( )
Inclination Vert Bearing Down
Total depth 464
Collar elev 4,494.5 T P
Area San Rafael Reef

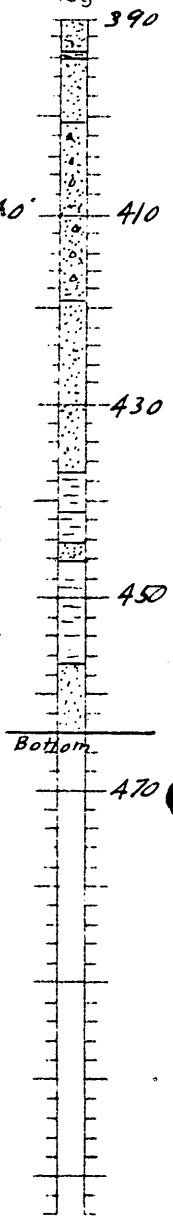
Map coord (T) N503,587.6 E496,226.7
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Dede No. 7
Date completed 6-29-55
Date logged 6-30-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Barren Hole : OBSS from 394.1 to 437.2 thick 43.1 SS color Wh-Lt.Gy MS Nil Cbn some sms.

Graphic log



DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access Minls.	Cbn	MS in SS	Remarks
		393.8	3.8	100	SS	Lt.Gy Gn Lt.Gy	F-V.F			Gn sm 391.2	Plug bit 0-390 SS well cemented
		394.1	0.3	100	Ms	Gn	Sandy				dmb-dmsw Contact gradational 394.0'
409.0	14.0	400.7	6.6	100	SS	Wh-Lt.Gy	F-V.F				
		419.5	18.8	100	SS	Wh-Lt.Gy	V.F-M+C Congl	Angular bleached Pbls in Congl.	FKs 403.5		Tbd V.F-M grained ss + C Congl
428.0	14.0	437.2	17.7	100	SS	Wh-Lt.Gy	F-M		sms 426.1-426.6 sm 430.8		
		441.4	4.2	100	Sts	Gy Gn-Gn					
		444.2	2.8	100	Sts-Ms	R+Gn					
447.0	18.4	446.1	1.9	100	SS	Gy Gn	V.F				
		456.8	10.7	74.8	Sts-Ms	R+Gn					
		464.0	7.2	100	SS	Lt.Gy - Lt.R Br.	V.F				
464.0	15.2										

Sample Base	Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$

Interval Base	Thick	γ-ray %e U_3O_8	γ ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-9

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-10 ( )
Inclination Vert Bearing down
Total depth 515.0
Collar elev 4477.4 T P
Area San Rafael Reef

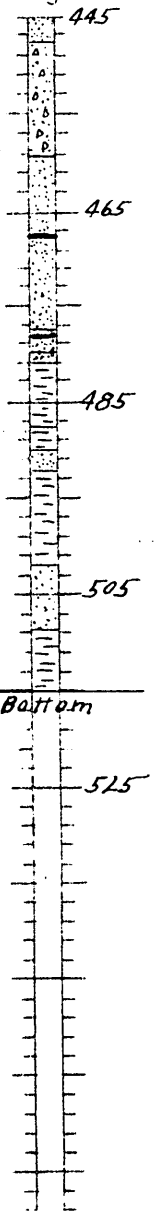
Map coord (T) N 503,572.5 E 496,792.9
Map coord (P)
Sec. 22 T 21S R 14E
Co., State Emery, Utah

Claim Dede No. 7
Date completed 7-2-55
Date logged 7-2-55
Logged by J. C. Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 443.0 to 482.0 thick 41.0 ; SS color Wh-Lt. Gy ; MS sparse ; Chn. some

Graphic log



DRILL LOG Depth	DRILL LOG Rec. ft.	LITHOLOGIC LOG Base	Thick	Rec. %	Rock	Color	Grain	Access. Min's	Chn	MS in SS	Remarks
		447.7	2.7	100	SS	Wh-Lt. Gy	F-M				Plug bit 0-445; SS penetrated at
		459.1	11.4	100	SS	Wh-Lt. Gy	F-M+ Congl	Angular bleached			443; Jmb-Jmsw Contact 443?
								Pbls in Congl			Ibdd F-M grained ss + C Congl
464.0	19.0	467.5	12.4	100	SS	Wh-Lt. Gy	F-M		thn sm 460.3		
		467.6	0.1	100	Carbon	Bl			sms		Intense radioactivity in thn Vitreous asphaltic sms
		477.4	7.8	100	SS	Wh-Lt. Gy	F-V.F				
		478.7	1.3	100	SS	Lt. Gy	M-F				
		478.8	0.1	100	Carbon	Bl			Sm		Moderate radioactivity in carbonaceous sm. Carbon appears to be portion of tree
		481.1	2.3	100	SS	Lt. Gy	F-F-V.F		SPT 480.7	Some Gn pbls	Well cemented
482.0	18.0	482.0	0.9	100	SS	Lt. Gy	V.F				Very well cemented
		487.3	5.3	100	Sts-Ms	Gn					
		490.0	2.7	100	Sts	R+Gn					
		492.6	2.6	100	SS	Lt. Gy to R. Br.	V.F				Very well cemented
501.0	14.9										
		502.2	9.6	50.7	Ms-sts	R+Gn					
		508.8	5.6	100	SS	Lt. Gy to Lt. R Br.	V.F				Very well cemented
515.0	6.4	515.0	6.2	0.0	Ms	Gn					Bottom 6.0' of core last driller reports Ms

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$
467.5	0.1								
Sample No.		33.7	0.1' actual Core						
478.8	0.2								
Sample No.		33.8	0.2' actual	Core					

Interval Base	Interval Thick	γ-ray ‰e U_3O_8	γ-ray (‰e) or Field est Base	Thick	U_3O_8	V_2O_5
			468.2	0.1	0.82	
			479.5	0.1	0.04	
			Babbel	probe	Results	

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-10

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-11 ( )
Inclination Vert Bearing down
Total depth 412
Collar elev 4,425.2 T P
Area San Rafael Reef

Map coord (T) N503,855.5 E496,204.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

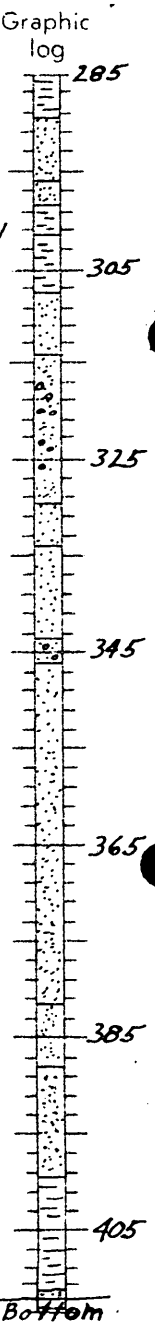
Claim Dede No. 7
Date completed 5-27-55
Date logged 5-27-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log barren hole ; OBSS from 307.3 to 399.6 thick 92.3 ; SS color Lt. Gy ; MS Sparse ; Cbn. Some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
299.0	14.0	289.5	4.5	100	Ms	R+Gn					Plug bit 0-285; Jmb-Jmsw contact
		296.3	6.8	100	SS	Lt. Gy	F			Thn. Rsm at base	abrupt at 314.5; Vert carbonate filled
		298.8	2.5	100	SS	Gy Gn	F+silty				fractures in SS below contact
		301.4	2.6	100	Ms	R					
309.0	10.0	307.3	5.9	100	Sts-Ms	R+Gn					
		314.5	7.2	100	SS	Lt. Gy	F			Gy. Sm. 313.5	Xbdg @ 65° 313.5-314.5
328.0	19.0	329.5	15.0	100	SS	Lt. Gy	F-Congl.	Bleached Pbls		Some pbls in Congl	Alternating bands Congl + F.G. ss
		334.2	4.7	100	SS	Lt. Gy	M-F				
338.0	10.0	343.5	9.3	100	SS	Lt. Gy	M		Sm 340.0		Thn sms asphaltic mtl. 340.0-340.2
		346.4	2.9	100	SS	Lt. Gy	M Congl.		Sm 345.4		
357.0	19.0	381.4	35.0	100	SS	Lt. Gy	F		Sm 375.5	Occ. Gn. pbls	
376.0	19.0	387.9	6.5	100	SS	Lt. Gy	V.F.			Occ. Gn sms	
		399.6	11.7	100	SS	Lt. Gy	F-M		Spx 396	Abundant Gn.	Loosely cemented; Xbdg @ 55°
395.0	19.0								Spx 399	Pbls. 396.8	
		412.4	12.8	100	Ms Sts	R+Gn					
412.0	17.0	412.0	0.6	100	SS	Lt. Gy	V.F			Abundant Gn. pbls throughout	Very hard & well cemented

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5



*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-11 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-12 ( )
Inclination Vert Bearing down
Total depth 474
Collar elev. 4,483.8 T P
Area San Rafael Reef

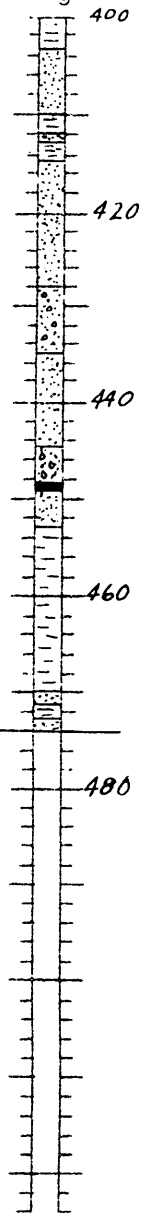
Map coord (T) N503,765.0 E496,526.2
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 7
Date completed 7-9-55
Date logged 7-10-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Ore hole, OBSS from 403.7 to 453.5 thick 50.2 ; SS color Wh-Lt. Gy ; MS Sm 3.6' ; Con. Some

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		403.7	3.7	0.0	Ms	R+Gn					Plug bit 0-400; 9.0' core lost
410.0	0.9	410.0	6.3	14.3	SS	Wh-Lt. Gy	M-F				400-410'; projected Jmb-Jmsw
		412.0	2.0	100	Ms-sts	R+Gn					Contact 403.7
		412.7	0.7	100	SS	Gy Gn	V.F		Spx		
		414.3	1.6	100	Ms-sts	D Gy Gn					
426.0	16.0	428.0	14.3	83.9	SS	Wh-Lt.Gy	M-F				
431.0	1.1	437.0	11.0	100	SS	Wh-Lt.Gy	F-M+C Congl	Angular bleached pbls + some R. Chert			Thdd F-M poorly sorted SS+C Congl
		444.5	7.5	100	SS	Wh-Lt.Gy	F-M				
449.0	16.3	448.7	4.2	73.9	SS	Wh-Lt.Gy	F-M-C Congl				
		449.4	0.7	14.3	SS	D Gy	F-M+muddy		Sms		Intense radioactivity in thin vitreous asphaltic sms; trace fine-grained pyrite
		453.5	4.1	100	SS	Wh-Lt.Gy	F	Thin sms 449.0-449.3; sms on bdg planes 452.0-453.5			Bdg @ 75° to core near base
468.0	13.1										
		470.0	16.5	66.7	Ms-sts	R+Gn					
		471.5	1.5	100	SS	Lt. Gy	V.F				Well cemented
		472.9	1.4	90	Ms-sts	R+Gn					
474.0	3.9	474.0	1.1	100	SS	Lt. Gy	V.F				Well cemented

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
449.4	0.7												449.4	0.7	0.49	
Sample No. 340 actual Core 0.1'													Babbel Probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-12

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-13 ( )
Inclination Vert Bearing down
Total depth 503.0
Collar elev 4,488.6 T P
Area San Rafael Reef

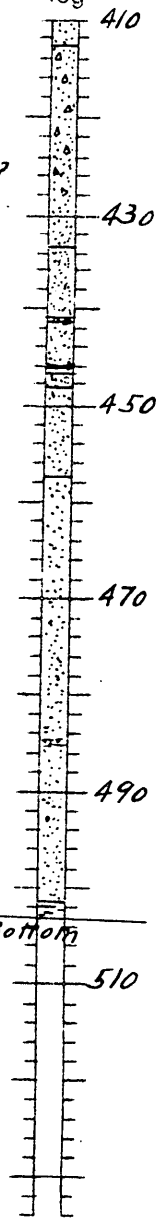
Map coord (T) N504,125.3 E496,642.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 6
Date completed 7-7-55
Date logged 7-8-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole; OBSS from 409.0 to 501.7 thick 92.7; SS color Wh-Lt. Gy, MS some, Cbn sparse

Graphic log



DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
429.0	18.2	412.8	2.8	100	SS	Wh-Lt.Gy	F-V.F		tnn sm 211.1		Plug bit o-410' SS penetrated at 409.0; dmb-dmsw Contact 409.0?
		433.8	21.0	97.4	SS	Wh-Lt.Gy	F-M+C Congl	Angular bleached pbls in Congl	sms 418.0-418.3 tnn sm 433.7		Tbdd F-M grained unsorted SS + C congl.
		441.0	7.2	83.3	SS	Lt. Gy	F-V.F				soft + fbl
		441.4	0.4	100	SS	Gy	M-C Congl			Numerous Gy pbls	
448.0	17.8	447.2	5.8	100	SS	Lt. Gy	F-C	Some R Chert pbls		OCC. Gy pbls	SS poorly sorted + well cemented
		448.2	1.0	100	SS	Gy	F-C				Thin weakly mineralized streak 446.8
		457.8	9.6	100	SS	Lt. Gy	F-V.F			Large Gy pbls	Large Gy Ms pbls = 60%
467.0	19.0	501.7	43.9	100	SS	Gy	F-M				Bedding 65° to core 464.3-467.8
										Gn sms + pbls 486.1-486.6	
										Gn pbls abundant 500.4-501.2	
503.0	17.0	503.0	1.3	100	Ms-sts	Gn					

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$
446.8	0.1								
Sample No. 339 Actual core 0.1'									

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			446.8	0.1	0.02	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 83504

Hole No. A-13

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-14 ( )
Inclination Vert Bearing down
Total depth 372
Collar elev 4,424.2 T P
Area San Rafael Reef

Map coord (T) N504,214.0 E496,312.4
Map coord (P)
Sec 22 T 21S R 14E
County, State Emery, Utah

Claim Dede No. 6
Date completed 6-3-55
Date logged 6-3-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized CSS from 301.8 to 361.5 thick 59.7 SS color Lt. Gy. Ms Some pbls. Chn. Sparse sms FKs.

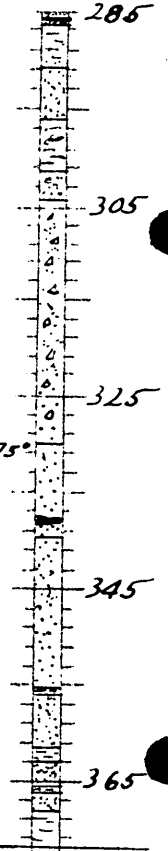
DRILL LOC.

Depth	Rec ft.
304.0	19.0
323.0	19.0
342.0	19.0
361.0	19.0
372.0	8.9

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chr	MS in SS	Remarks
286.0	1.0	100	SS	Lt. Gy Gn	V.F+silty				Plug bit 0-285
286.9	0.9	100	Ms	Gn					
291.0	4.1	100	sts + silty ss	DGy Gn + R					
296.6	5.6	100	SS	Wh.	F	Occ R Chert pbls			Limy + well cemented at base
301.8	5.2	100	Ms	R+Gn					
304.5	2.7	100	SS	Gy Gn-Lt. Gy	F to silty				Jmb-Jmsw contact gradational
332.9	28.4	100	SS	Lt. Gy	F-C Congl	Angular bleached pbls in congl.			301.8 304.5
338.2	5.3	100	SS	Lt. Gy	F		Spx 338.0		Thn sm. radioactive asphaltic mtl. in carbonaceous Ms sm 337.9-338.0; Xbds 75°
339.7	1.5	100	SS	Lt. Gy	F-M				
355.1	15.4	100	SS	Lt. Gy	F		Spx 353.3-355.1	small Gy pbls Gn pbls	Xbds near base @ 65°
355.7	0.6	100	sts	Gy Gn					
361.5	5.8	100	SS	Lt. Gy	V.F				
363.0	1.5	100	sts	Gy Gn					
365.5	2.5	100	SS	Gy	V.F+silty				
366.0	0.9	100	Ms sts	Gy Gn					
368.3	2.3	100	SS	Gy	V.F+silty				
372.0	3.7	00	Ms	Gy?					Core lost bottom 2'; Driller reports Ms.

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$
338.0	0.2	0.01							
Sample No 325									
Actual Core 0.2									

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			340.8	0.2	0.06	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-14

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev 4,471.6 T P
Area San Rafael Reef

Map coord (T) N504,866.7 E497,180.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by J E Morgan

Rev		
Ed		

Summary of log mineralized hole; OBSS from 436.8 to 462.6 thick 26.6; SS color Lt. Gy; MS Some, Chn. Some

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		418.3	13.3	100	Ms	R & Gn	Sandy				Plug bit 0-405' Jmb-Jmsw
424.0	19.0	426.0	8.7	100	Ss	Lt. Gy	F-VF	Angular red Chert Pbls near base			Contact 436.8
		436.8	10.8	100	Ms	R & Gn	Sandy				Grain becomes coarse & poorly sorted near base
443.0	19.0	442.5	5.7	100	Ss	Lt. Gy	M-F				
		451.0	8.5	100	Ss	Lt. Gy	Congl.	Angular bleached appearing Pbls		Gn pbls, A	
		451.8	0.8	100	Ss	Lt. Gy	F				
		457.3	5.5	100	Ss	Lt. Gy	Congl.	Angular bleached appearing pbls		Gn pbls, some	
		457.9	0.6	100	Ss	D Gy	F		blebs	thn DGy sms	Weak R.A. in vitreous asphaltic blebs
		459.3	1.5	100	Ss	Lt. Gy	Congl.				within carbonaceous Ms sms.
462.0	19.0	462.6	3.3	100	Ss	Lt. Gy	F	Angular red Chert Pbls near base			Grain coarse & poorly sorted near base.
		466.4	3.8	100	Sts	Gy-Gn					
		472.1	5.7	100	Ss	Lt. Gy	VF & silty			Occ. thn Gy sms	
476.0	12.9	477.1	5.0	78.0	Ms	R & Gn					
		489.8	12.7	100	Sts	R & Gn					Occ. thn lenses Gy Gn silty ss
		491.8	2.0	100	Ms	R & Gn					
495.0	19.0	495.0	3.2	100	Sts	R & Gn					
		513.0	18.0	100	Ss	Wh ~~R & Gn~~ Lt Gy	F-VF	Occ. R chert pbls			
514.0	19.0	519.3	6.3	100	Ss	Wh-Lt Gy	F-VF		blebs	Gy sms & pbls, A	Vitreous asphaltic blebs 517.5
		525.5	6.2	100	Ss	Wh-Lt Gy	F-VF			Gy sms & pbls near base	
529.0	15.0										

Graphic log: 405, 425, 445, 465, 485, 505, 525

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$
457.9	0.6	0.02		3.5					
Sample No. 323									
Actual core 0.6'									

Interval Base	Thick	γ-ray ‰e U_3O_8	γ ray (‰e) or Field est Base	Thick	U_3O_8	V_2O_5
			457.9	0.6	0.01	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No A-15 Page 1 of 3

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev 4471.6 T P
Area San Rafael Reef

Map coord (T) N504,866.7 E497,180.6
Map coord (P)
Sec 22 T 21S R 14E
Co., State Emery, Utah

Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log OBSS from to thick SS color MS Cbn.

Graphic log

525.5 545 565 585 605 625 640.3 645

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
548.0	17.2	561.0	35.5	94.7	Sts	R+Gn					
566.0	18.0	579.8	18.8	100	SS	Wh	F-V.F			Gn pbls, S at base	
		583.3	3.5	100	Ms+sts	R+Gn					
		584.2	0.9	100	SS	Lt. Gy	V.F				SS well cemented
585.0	19.0	586.0	1.8	100	Sts	R+Gn					
		589.8	3.8	100	SS	Lt. Gy	V.F	Thn R. Chert congl. lens			
604.0	19.0	604.0	14.2	100	Sts+Ms	R+Gn					
		609.0	5.0	100	SS	Lt. Gy	VF+Silty			Thn gn Sms	
623.0	9.5	625.8	16.8	43.5	SS	Lt. Gy	VF				
		630.9	5.1	100	Sts	D Gy					
		633.6	2.7	100	SS	Lt. Gy	V.F				SS very well cemented
		640.3	6.2	91.9	Ms	D Gy	Sandy near base				Abundant R. chert & white gypsum nodules 638.8 – 648.8

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev 4471.6 T P
Area San Rafael Reef

Map coord (F) N 5048667 E 497,180.6
Map coord (P)
Sec. 22 T 21 S R 14 E
Co., state Emery, Utah

Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by J E Morgan

Rev		
Ed		

Summary of log OBSS from to thick color MS Cbn.

Graphic log

640.3

Bottom

660

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec. ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min s.	Cbn	MS in SS	Remarks
642.0	18.5	648.8	8.5	83.3	Sts	R-Br					Base Jmsw? 648.8
656.0	12.6	656.0	7.2	100	Gyp	Wh & Or	massive			Thn. sms Gy Sts	

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-15 Page 3 of 3

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

224 New Customhouse
Denver 2, Colorado

August 5, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3620 (Uranium), Contract Idm-E792
Uranium Prospectors Co., Ltd., Emery County, Utah

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of June, 1955.

W. M. Traver

W. M. Traver

Enclosures

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

RECEIVED
AUG - 8 1955

224 New Customhouse
Denver 2, Colorado

July 22, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject : DMEA Docket 3620, Contract Idm-E792 (Uranium), Uranium Prospectors Co., Ltd., Emery County, Utah

Operator's Monthly Progress Report, for the period June 1955

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remarks:

Date of Report	June 12, 1955 (?)
Date Received in Field Office	July 15, 1955
Date Received in Region Office	July 21, 1955

W. M. TRAVER

W. M. Traver

Enclosure

RDB/vj

cc: Subject File E792
S. R. Wilson
Sec. Opr. Comm.(2)
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

RECEIVED
AUG - 8 1955

DMEA
Date Rec'd.
JUL 21 1955
BUREAU OF MINES
Denver, Colorado

July 19, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3620 (Uranium), Contract Idm-X792, Uranium Prospectors Co., Ltd., Emery County, Utah. MF-104 forms for June 1955

Attached are the necessary copies of the subject operator's report covering work completed during June 1955. An inspection of the project was made by W. E. Young July 15, 1955. Work reported by the operator was verified at the time of inspection.

Nine diamond drill holes were completed during the reporting period. A total of 4,131 feet of core and noncore drilling was completed, making a total of 5,596 feet to date. All holes drilled during the month were probed with a Bubbel counter. Four of the nine holes intersected ore-grade mineralization, and one hole cut below-ore-grade mineralization.

Work accomplished during the month is in conformance with the contract, and it is recommended that the operator be reimbursed for the Government's share of expenditures as shown in the inspecting engineer's memorandum.

The operator's monthly report was received in this office July 15, 1955.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

RECEIVED
AUG - 8 1955

E. H. Wilson

July 18,1955

W. E. Young

Docket No. [illegible]-3620 (Uranium), Contract [illegible]-3792, Uranium Prospectors Co. Ltd., Emery County, Utah. Progress Report and NF-104 forms for June 1955.

The subject property was inspected on July 15, 1955. The progress reported for June 1955 has been made. Nine holes were completed which conformed to the contract. No road construction nor site construction was done during June.

Hole A-5a, which duplicates hole A-5, was drilled with a plug bit through the horizon cored in A-5. This should be satisfactory because of the proximity of locations. All holes were probed with the Baldwin counter. Four holes encountered ore, one hole was mineralized and four were barren.

The operator's narrative report and map are considered adequate. The NF-104 and NF-104a forms agree as to monthly cost and total project costs, and footages to date. Of the twelve assays run, one was run for uranium only.

It is recommended that the operator be reimbursed for $8,146.28. This is 75 percent of $10,861.70, the amount expended during June 1955.

W. E. Young
W. E. Young

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

U. S. Bureau of Mines
RECEIVED
JUL 15 1955
Salt Lake City, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED
AUG - 8 1955

Month of June 1-30, 1955 Docket No. DMEA 3620 Contract No. Idm-E792
Operator's Name URANIUM PROSPECTORS CO., LTD. Minerals Uranium
Address 710 North 5th St., Grand Junction, Colorado
Contract Amount, $ 32,742.50 Government Participation: 75 % Amount, $ 24,556.90

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contractors:						
Drilling	7,703.45	3,321.75	11,025.20			
Bulldozing	None	208.00	208.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	60.00	10.00	70.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify): Incidental Allow., F.U. costs per contract Exhibit A	3,098.25	1,098.75	4,197.00			
TOTALS	10,861.70	4,638.50	15,500.20	10861.70	4638.50	15,500.20

I certify that the above bill is correct and just and that payment therefor has not been received.
Date June 12, 1955 Payee Uranium Prospectors Co., Ltd.
Per [signature] Title Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 8,146.28

Signature [signature]
(Authorized Certifying Officer)

Date 7/25/55 Vou. No. DMA-56-10
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-792 in accordance with the terms of the contract.

Signature W. E. Young Title Mining Engineer Date July 18, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk

Signature W. M. Shaver Title Executive Officer Date JUL 22 1955

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

U. S. BUREAU OF MINES
RECEIVED
JUL 15 1955
Salt Lake City, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
AUG - 8 1955

Month of June 1-30 1955 Docket No. DMEA 3620 Contract No. Idm-E792
Operator's Name Uranium Prospectors Company, Ltd. Minerals Uranium
Address 718 North 5th St., Grand Junction, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	2,438.70	732	4,451.70	1,349	3.30	1,490	3.50
Non-Core Churn 0'-300'	ft.	4,027.50	2,685	5,152.50	3,435	1.50	9,950	1.75
Non-Core Auger 300'-650'	ft.	1,237.25	707	1,421.00	812	1.75		
Stripping Reservoir Const.	hr.						5	13.00
Trenching Incidental allow.	ft.	3,098.25	4,131	4,197.00	5,596	.75	11,440	.75
~~Test Pits~~ Analysis	sample	60.00	12	70.00	14	5.00	60	5.00
Roads and Trails	hr.			108.00	9	12.00	75	13.00
Drill site Const.	hr.			100.00	8 1/3	12.00	15	13.00
TOTAL DISTRIBUTED COSTS		10,861.70		15,500.20				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,861.70		15,500.20				32,742.40

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 12, 1955 Operator Uranium Prospectors Co., Ltd.

Per [signature] Title Vice President

REMARKS:

→ NOTE.—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.

(Instructions on reverse)

W. E. Young
Mining Engineer

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

RECEIVED
AUG - 8 1955

EXPLORATION PROJECT CONTRACT IDM-E792
URANIUM PROSPECTORS COMPANY, LTD.
Docket No. DMEA 3620

Progress Report June 1-30, 1955

Drilling

Nine 1st stage drill holes were completed this reporting period to bring the total number of holes drilled under the contract to 12. Drill holes completed this month are tabulated below.

Hole No.	Non-Core	Core	Total Depth	Date Completed	Remarks
A-14	285	87	372	6-3-55	Mineralized
A-2	305	81	386	6-5-55	Barren
A-3	330	90	420	6-7-55	Ore
A-5a	400	91	491	6-30-55	Ore
A-6	400	89	489	6-15-55	Ore
A-7	407	87	494	6-30-55	Barren
A-8	445	70	515	6-22-55	Ore
A-4	430	70	500	6-24-55	Barren
A-9	390	74	464	6-29-55	Barren
Totals	3,392	739	4,131		
Previous Drilling	855	610	1,465		
Total to Date	4,247	1,349	5,596		

Attention is called to Hole Nos. A-5 and A-5a. Hole A-5 was lost when a bit was broken and left in the hole after 46 feet had been cored. The drill rig was then moved 8 feet from A-5, and Hole A-5a was drilled non-core to within 4 feet of the bottom depth of Hole A-5 (2 feet above the ore found in Hole A-5) and then cored to the specified minimum depth. In this instance the operator assumed that the core obtained from Hole A-5 would furnish sufficient lithologic information for that location and core from the corresponding interval in Hole A-5a would not be necessary.

During the month it was discovered that an error had been made in determining the upper Salt Wash sandstone contact in some of the holes. As a result Hole Nos. A-5a and A-7 had not penetrated the specified minimum of 70 feet into the Salt Wash sandstone.

Progress Report June 1-30, 1955

The drill rig was moved back to these holes on June 30th, and both holes were deepened to the specified depth.

Access Roads, Drill Sites

No bulldozer work was required during the month.

URANIUM PROSPECTORS COMPANY, LTD.

D. C. Deringer
Vice President

CANNON DIAMOND DRILLING CO.

Compton, Calif. • Grand Junction, Colo.

Rotary
Percussion

Calyx
Coring

Compton, Calif.
P. O. Box 549
Tel. Ne. 1-9341

Grand Junction, Colo.
P. O. Box 712
Tel. 2605

July 11, 1955

STATEMENT

TO: Uranium Prospectors Company
718 North 5th Street
Grand Junction, Colorado

Drilling May 27-June 30, 1955

Hole No.	0-300	300-650	0-650(Core)
A14	285		87
A2	300	5	81
A3	300	30	90
A5a	300	100	91
A6	300	100	89
A7	300	107	87
A8	300	145	70
A4	300	130	70
A9	300	90	74
	2685	707	739

2685	feet drilled	@$1.50 per foot	$4027.50
707	" "	@$1.75 " "	$1237.25
739	" "	@$3.30 " "	$2438.70
4131			$7703.45

Cannon Diamond Drilling Co.

H. Cannon

Certified Correct

L. Ba Lemmer

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Uranium Prospectors Co. Ltd,
718 North 5th Street
Grand Junction, Colorado

Date 6-13-55
Order No. 3444-S

Material: Ore Sample
Received: 6-9-55
For: Analysis

Lab. No.	Your No.	Description	$\%U_3O_8$	$\%V_2O_5$	$\%CaCO_3$
3444-1	325		0.01		

Analyst.

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

PHONE 1543-W

RECEIVED
AUG - 8 1955

CERTIFICATE OF ANALYSIS

TO

Uranium Prospectors Co., Ltd.
718 North 5th Street
Grand Junction, Colorado

Date 6-13-55
Order No. 3450-S

Material: Ore Samples
Received: 6-10-55
For: Analysis

Lab. No.	Your No.	Description	%U_3O_8	%V_2O_5	%$CaCO_3$
3450-1	326		0.33		5.0
3450-2	327		0.96		2.1
3450-3	328		0.82		5.1

H. G. Brown
Analyst.

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Uranium Prospectors Co., Ltd.
718 North 5th Street
Grand Junction, Colorado

Date 6-15-55
Order No. 3474-S

Material: Ore Samples
Received: 6-13-55
For: Analysis

Lab. No.	Your No.	Description	%U_3O_8	%V_2O_5	%$CaCO_3$
3474-1	329		1.85		0.2
3474-2	330		0.07		8.4
3474-3	331		0.08		5.6

Analyst.

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

RECEIVED
AUG - 8 1955

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Uranium Prospectors Co., Ltd.
718 North 5th Street
Grand Junction, Colorado

Date 6-23-55
Order No. 3579-S

Material: Ore Samples
Received: 6-20-55
For: Analysis

Lab. No.	Your No.	Description	%U_3O_8	%V_2O_5	%$CaCO_3$
3579-1	322		0.18 ✓		12.3
3579-2	323		0.07		18.1

W. D. Bla[illegible] Analyst.

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Uranium Prospectors Co., Ltd.
718 North 5th Street
Grand Junction, Colorado

Date 7-5-55
Order No. 3705-S

Material: Ore Samples
Received: 7-1-55
For: Analysis

Lab. No.	Your No.	Description	$\%U_3O_8$	$\%V_2O_5$	$\%CaCO_3$
3705-1	334		0.03		8.6
3705-2	335		0.32		6.8
3705-3	336		0.15		10.8

W. E. B.
Analyst.

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-2 ( )
Inclination Vert Bearing down
Total depth 386.0
Collar elev. 4481.0 T P
Area San Rafael Reef

Map coord (T) N503400.2 E495,765.8
Map coord (P)
Sec. 22 T 21S R. 14E
Co., State Emery, Utah

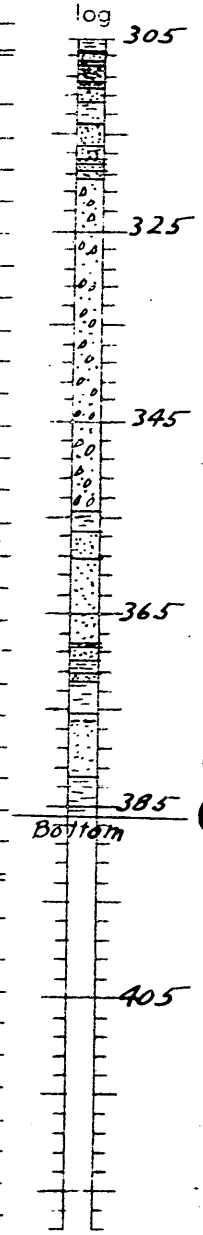
Claim Pee Wee No. 1
Date completed 6-4-55
Date logged 6-4-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Barren Hole, OBSS from 318.4 to 368.0 thick 49.6 SS color Lt. Gy ; MS Pbls sparse , Cbn sparse

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access Min's.	Cbn	MS in SS	Remarks
319.0	14.0	306.8	1.8	100	sts	R+Gn					Plug bit 0-305; Jmb-Jmsw
		307.5	0.7	100	SS	Gy Gn	V.F+silty				Contact 307.9 ???
		307.9	0.4	100	Ms	R+Gn					
		309.5	1.6	100	SS	Lt. Gy	F-V.F				Well cemented
		310.0	0.5	100	Sts	R+Gn					
		311.9	1.9	100	SS	Lt. Gy	F-V.F				Well cemented
		314.1	2.2	100	sts	R+Gn					
		316.3	2.2	100	SS	Gy Gn	VF+silty				
		317.5	1.2	100	sts	R+Gn					
		317.9	0.4	100	SS	Gy Gn	V.F				
		318.4	0.5	100	SS	DGy Gn	V.F				
338.0	18.7	319.8	1.4	100	SS	Wh	F				Limy very hard
		354.7	34.9	99.0	SS	Lt. Gy	F-Congl	Angular bleached		Some Gn Pbls	Alternating bands F-g SS + Congl
		356.8	2.1	100	Ms sts	Gn		Pbls + some R. Chert		Throughout	Xbdg @ 75° near base
357.0	18.0	359.5	2.7	100	SS	Wh	F-V.F		SPK 357.4-358.7		
		368.0	8.5	100	SS	Lt. Gy	M-F				
		368.9	0.9	100	Ms	Gn					
		370.1	1.2	100	SS	DGy	V.F+silty				
371.0	14.0	371.0	0.9	100	Ms	Gn					
		372.2	1.2	100	SS	Gy	V.F+silty				
		375.2	3.0	100	sts	R+Gn					
		382.2	7.0	100	SS	Lt. Gy	F-V.F			Sm-376.2-376.4	Silty 380.0-382.2
386.0	12.0	386.0	3.8	52.7	Ms	R+Gn					

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-2 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-3 ( )
Inclination Vert Bearing down
Total depth 420.0
Collar elev. 4471.0 T P
Area San Rafael Reef

Map coord (T) N503,195.4 E495,987.1
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No 8
Date completed 6-7-55
Date logged 6-7-55
Logged by J E Morgan

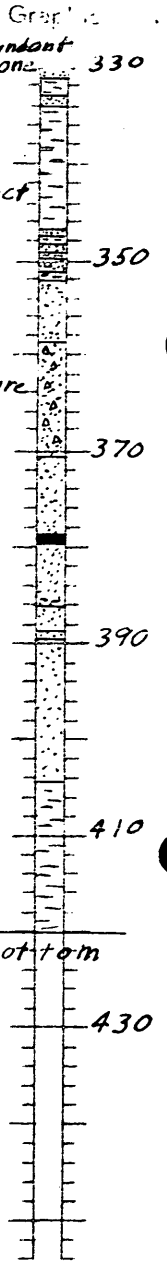
Rev		
Ed		

Summary of log ore hole ; OBSS from 349.4 to 404.2 ; 54.8 ; SS color Lt. Gy ; MS Some pbls ; Cbn Locally abundant in mineralized zone

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
347.0	17.0	331.4	1.4	100	SS	Gy Gn	F+silty				Plug bit 0-~~349.4~~ 330.0 Jmb-Jmsw contact
		333.0	1.6	100	Sts	R+Gn					349.4 ?
		334.0	1.0	100	SS	Gy Gn	V.F+silty				
		346.8	12.8	100	Ms sts	R+Gn					
		347.5	0.7	100	SS	Gy Gn	VF+silty				Very well cemented
		348.1	0.6	100	Ms	Gn					
		349.4	1.3	100	SS	Gy Gn	V.F				Very well cemented, $CaCO_3$ in vert fracture
		349.8	0.4	100	Ms	DGy			Spx		
		351.6	1.8	100	SS	Lt. Gy	F				Well cemented
		352.2	0.6	100	Ms	Gn					
		358.9	6.7	100	SS	Lt. Gy	M-F			Some Gn pbls	
366.0	19.0	370.4	11.5	100	SS	Lt. Gy	F-Congl	Angular bleached pbls		Some Gn pbls	Alternating bands F.g SS+ Congl.
		378.8	8.4	100	SS	Lt. Gy					
		379.9	1.1	100	SS	DGy-Bl	V.F+silty		Abundant Sms		U_3O_8 mineralization
385.0	19.0	386.2	6.3	100	SS	Lt. Gy	V.F			0.2' Gn sm at base	Xbdg @70° near base
		388.7	2.5	100	SS	Lt. Gy	M				
		389.9	1.2	100	SS	Lt. Gy	V.F.				Xbdg @ 75°
404.0	19.0	404.2	14.3	100	SS	Lt. Gy	F-V.F			Gn pbls at base	Xbdg @ 75° near top
420.0	14.4	420.0	15.6	89.7	Ms-Sts	R+Gn					

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
379.9	1.1	0.33		5.0									380.6	1.1	0.39	
Sample No. 326													Babbel probe results			
1.1' actual core																

*Assays marked "e" are from lab gamma-ray readings



GPO 835041

Hole No. A-3 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-4 ( )
Inclination Vert Bearing down
Total depth 500
Collar elev 4462.9 T P
Area San Rafael Reef

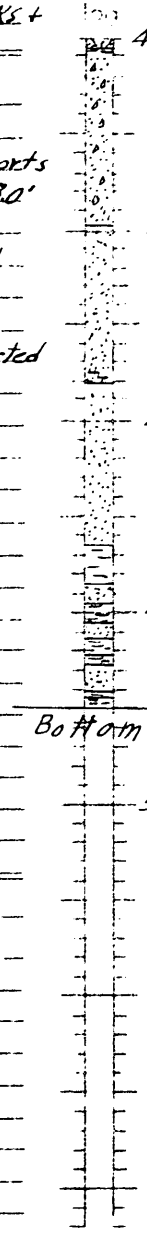
Map coord (F) N502,934.3 E496,723.8
Map coord (P)
Sec. 22 T 21 S R 14 E
Co. State Emery, Utah

Clr Dede No. 8
Date 6-24-55
Date 6-24-55
Logged by J.C. Morgan

Rev
Ed

Summary of log Barren Hole OBSS from 428.0 to 483.4 ft 55.4 SS color Lt. Gy MS Sparse Chr Some EKS + sms

DRILL LOG Depth	Rec ft	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Chr	MS in SS	Remarks
		431.4	1.4	100	SS	Lt. Gy	F-V.F				Plug bit 0-430; Driller reports
		431.5	0.1	100	Ms	Gn					sandstone penetrated at 428.0'
449.0	19.0	449.5	18.0	100	SS	Lt. Gy	F-M+C Congl	Angular bleached			Jmb-Jmsw Contact 428'
								Pbls in Congl			Jbd F-M unsorted ss + C Congl
		466.0	16.5	100	SS	Lt. Gy	F-V.F		Thin sms 449.5-450.5	Gy pbls + sms at base	Bdg @ 80° to core
468.0	19.0	483.4	17.4	100	SS	Lt. Gy	F-V.F		EKS 473.5-482.8		Grain at base M-C & poorly sorted
		487.3	3.9	84.9	Ms	Gn					
487.0	18.4	489.4	2.1	100	SS	Gy Gn	V.F-silty				
		490.0	0.6	100	sts	R					
		491.0	1.0	100	SS	Gy Gn	V.F+silty	Abundant Or + R			
		492.4	1.4	100	sts	R		Chert pbls			
		494.3	1.9	100	SS	Lt. Gy Gn	V.F-F				Well cemented
		495.5	1.2	100	sts	R+Gn					
		498.1	2.6	100	SS	Lt. Gy Gn R Br	V.F-F			Some R+Gn Pbls	Well cemented
		498.8	0.7	100	Ms	R+Gn					
500.0	12.7	500.0	1.2	100	sts	Gn					



Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ ray (%e)	γ ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked 'e' are from lab gamma-ray readings

PO 8350-41

Hole No. A-4

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-5 ( )
Inclination Vert Bearing Down
Total depth 446
Collar elev. 4493.19 T P
Area San Rafael Reef

Map coord (T) N503,203.4 E 496,380.5
Map coord (P)
Sec. 22 T 21S R. 14E
Co State Emery, Utah

Claim Dede No 8
Date completed 6-9-55
Date logged 6-9-55
Logged by J E Morgan

Rev		
Ed		

Summary of log ; OBSS from 416.4 to — thick — ; SS color , MS ; Chn.

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access Min's.	Chn	MS or SS	Remarks
		401.7	1.7	100	SS	Gy Gn	V.F + silty				Plug bit 0-400; Jmb-Jmsw
		403.7	2.0	100	Ms-sts	R + Gn					Contact? 416.4
		409.7	6.0	100	SS	Gy Gn-Lt Gy	F	Some R Chert pbls			very well cemented
		412.0	2.3	100	Ms	R					
412.0	12.0	416.4	4.4	100	Ms-SS	Gn	F + silty				Ibd Ms + silty SS
		419.4	3.0	100	SS	Lt Gy	F				
431.0	19.0	443.8	24.4	100	SS	Lt Gy	F-M-Congl	Angular bleached Pbls		numerous Sms + pbls 438.5-443.0	Alternating bands F-M gr ss + C Congl.
		444.1	0.3	100	SS	Bl-D Gy	F	vitreous	than	sms	Carbon sms highly radioactive;
											Trace of Chalcopyrite
		444.9	0.8	100	SS	Lt Gy	M			Gy sms + pbls	very well cemented
		445.2	0.3	100	SS	Gy-Bl	M	vitreous	than	sms	Carbon sms highly radioactive; Tr
											Chalcopyrite
446.0	15.0	446.0	0.8	100	SS	Lt Gy	F-M				
											Note: Broken bit in hole at 446.0'
											Hole moved S 88° 42' E 8.8'
											and plug bitted to 442.0'. See
											log hole A-5a.

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
444.1	0.3	0.96		2.1									444.1	0.3	1.0 +	
Sample No. 327		0.3' actual		Core									445.2	0.3	1.0 +	
													Babbel Counter Check			
445.2	0.3	0.82		5.1												
Sample No. 328		0.3' actual		Core												

*Assays marked "e" are from lab gamma-ray readings

Hole No A-5 (see Hole A-5a)

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-5a ( )
Inclination Vert Bearing Down
Total depth 487.0
Collar elev. 4494.0 T P
Area San Rafael Reef

Map coord (T) N503194.6 E496380.7
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 8
Date drilled 6-10-55
Date logged 6-10-55
Logged by E Morgan

Rev
EJ

Summary of log Ore hole CBSS from 416.4 to 471.3 [illegible] 45.1 Sh color Lt Gy MS Pbls Cu locally abundant

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cu	MS	Remarks
461.0	18.7										Plug bit 0-442 (see log Hole A-5) Driller reports carbon in cuttings at 441.0'
		444.1	2.1	100	SS	Lt Gy	F-M			Abundant Gn pbls	
		444.8	0.7	100	SS	Bl-D Gy	F-M		sms + FK	Abundant	Vitreous asphaltic sms highly radioactive
		446.8	2.0	100	SS	Lt Gy	F-M			Gn & Gy pbls A	
		447.3	0.5	60.0	Ms	D Gy					
		447.6	0.3	100	SS	Gy	F-M		thn sms	Gn pbls at top	Weak radioactivity in carbon sms
		456.9	9.0	100	SS	Lt Gy	F-C		thn sms	Gy pbls & sms 448.6-449.6	Well cemented; Grain becomes coarse near base; Xbdg @ 65°
		457.6	0.7	100	SS	Gy	M-C		sp x	Some Gy pbls	Weak radioactivity
		458.2	0.6	100	SS	Lt Gy	M-C				
		471.3	13.1	100	SS	Lt Gy	F		thn sm	467.7 Gy pbls at base	
474.0	11.7	476.6	5.3	75.5	Ms	Gn					
		482.0	4.4	100	SS	Gy Gn-Lt R Br	V.F+ silty				
487.0	12.6	487.0	5.0	88.0	Sts	R+Gn					Note: Hole deepened from 474.0-487.0 6-30-55 EM

Graphic log: 440, 460, 480, Bottom

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
444.8	0.7	1.85		0.2									441.6	1.3	0.21	
Sample No. 329 actual Core 0.7'													444.8	0.7	1.00+	
													447.9	0.3	0.13	
447.9	0.3	0.07		8.4									457.6	0.7	0.14	
Sample No. 330 actual Core 0.3'													Babbel probe results			
457.6	0.7	0.08		5.6												
Sample No. 331 actual Core 0.7'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-5a (see log A-5)

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-6 ( )
Inclination Vert Bearing down
Total depth 489
Collar elev. 4505.1 T P
Area San Rafael Reef

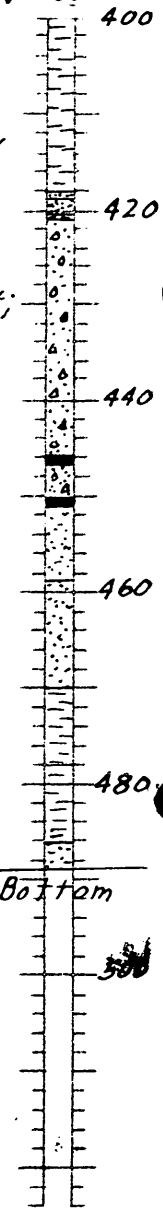
Map coord (T) N503353.1 E496333.7
Map coord (P)
Sec. 22 T 21S R 14E
Co. State Emery, Utah

Claim Dede No 8
Date completed 6-15-55
Date logged 6-16-55
Logged by JE Morgan

Rev		
Ed		

Summary of log Ore hole OBSS from 420.3 to 470.0 in 49.7 SS color Lt. Gy ; MS thn. sms + pbls locally ; Cbr minor sms + FKs

Graphic log



DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbr.	MS in SS	Remarks
410.0	10.0	418.1	18.1	100	Ms-Sts	R+Gn					Plug bit 0-400'; Jmb-Jmsw
		418.7	0.6	100	SS	DGy-Gn	F+silty		Some FKs.		Contact gradational 418.7
		420.3	1.6	100	SS	Lt. Gy	V.F				Very well cemented
		420.6	0.3	100	Ms	Gn					
427.5	17.5	446.0	25.3	100	SS	Lt. Gy	F-M-Congl	Angular bleached pbls	thn sms 425.8		Thd F-M gr SS & C congl.
446.5	19.0	447.1	1.1	100	SS	Lt. Br-Gy	F-C		FKs in Ms sms	Abundant thn. Gy sms + Pbls	Moderately radioactive throughout; well cemented.
450.5	4.0	450.5	3.4	100	SS	Lt. Gy	F-Congl		Sms + FKs 450.0 thn sms	Abundant Gy pbls Abundant Gy pbls + sms	
459.0	8.3	451.1	0.6	100	SS	D Gy	F-C				Moderate radioactivity in thn vitreous carbon sms
		470.0	18.9	100	SS	Lt. Gy	F			Numerous Gy Pbls 453.0-455.0	
478.0	17.7	486.2	16.2	91.4	Ms-sts	R+Gn					
		488.1	1.9	100	SS	Lt. Gy	V.F			Some R. pbls	
489.0	11.0	489.0	0.9	100	SS	Lt. Gy-Br	V.F+silty				

Sample Base	Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Interval Base	Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
447.1	1.1	0.18		12.3									447.9	1.1	0.26	
Sample No. 332 Actual Core 1.1'													452.4	0.6	0.05	
													Babbel probe results			
451.1	0.6	0.07		18.1												
Sample No. 333 Actual Core 0.6'																

*Assays marked "e" are from lab gamma-ray readings

GPO 8350 41

Hole No. A-6 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-7 ( )
Inclination Vert Bearing down
Total depth 494.0
Collar elev. 4,490.4 T ____ P
Area San Rafael Reef

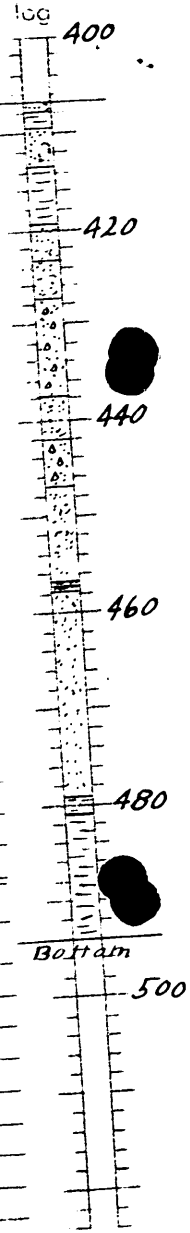
Map coord (T) N 503,395.5 E 496,461.0
Map coord (P) ____
Sec 22 T 21S R 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 6-17-55
Date logged 6-17-55
Logged by J. E. Morgan

Rev | Ed

Summary of log Barren Hole OBSS from 423.4 to 478.9 55.5 SS color Lt. Gy Mn Some pbls sparse

Graphic log



LITHOLOGIC LOG

DRILL LOG Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		408.0	1.0	100	SS	Lt. Gy	F	R+Or Chert pbls			Plug bit 0-407
		409.8	1.8	100	Ms	R					
		413.5	3.7	100	SS	Gy Gn	V.F+silty	Some R Chert			
		419.7	6.2	100	Ms-sts	R+Gn					Jmb-Jmsw Contact 423.4?
		423.4	3.7	59.4	SS	Lt.Gn-Lt.Gy	V.F		FRS		Xbdg @ 65° near base
422.5	14.0	427.4	4.0	100	SS	Lt.Gy	F-M	Some R Chert	426.6-427.1		Tbd F-gr. ss + M-C Congl
		438.0	10.6	100	SS	Lt.Gy	F+M-C Congl				
		442.0	4.0	100	SS	Lt.Gy	F			Some Gy pbls	
441.5	19.0	447.0	5.0	100	SS	Lt.Gy	F-V.C Congl			Abundant Gy pbls near base	
		457.0	10.0	100	SS	Lt.Gy	F				
		457.1	0.1	100	Ms	Gn					Well cemented; Xbdg @ 65°
		457.7	0.6	100	SS	Lt.Gy	V.F			Abundant Gy pbls	Thnsm Gn Ms at base
460.5	19.0	457.9	0.2	100	SS	Lt.Gy	M-C Congl		Thn sms 460.0-460.3	Some Gy pbls	
		478.9	21.0	100	SS	Lt.Gy-Gy	V.F-F				
477.0	16.5	481.0	2.1	100	Ms-sts	Gn					Note: Hole deepened from
		494.0	13.0	66.2	Ms-sts	R+Gn					477.0-494.0 6-30-55 JEM
494.0	13.6										

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

GPO 835041

Hole No. A-7

*Assays marked "e" are from lab gamma-ray readings

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-8 ( )
Inclination Vert Bearing down
Total depth 515
Collar elev. 4505.7 T P
Area San Rafael Reef

Map coord (T) N503 232.2 E 496 519.1
Map coord (P)
Sec. 22 T. 21S. R. 14E
Co., State Emery, Utah

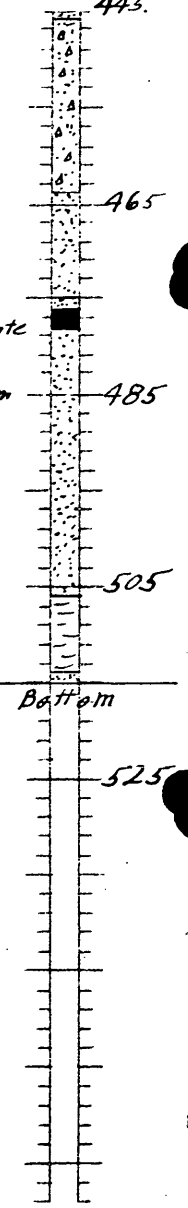
Claim Dede No. 8
Date completed 6-22-55
Date logged 6-23-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Ore hole OBSS from 445.0 to 505.6 Thick 60.6 Color Lt. Gy MS sparse Cbn. sparse

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access Min's.	Con	MS in SS	Remarks
		445.9	0.9	100	SS	Lt. Gy	M-F		thn sms 445.8		Plug bit 0-445; Projected
460.0	15.0	463.6	17.7	100	SS	Lt. Gy	F-C+Congl	Angular bleached Pbls + some R Chert			Contact 445.0
											Tbd F-C unsorted ss + C Congl.
469.0	8.9	475.0	11.4	100	SS	Lt. Gy	M-F			Abundant small Gy Pbls	Poorly sorted well cemented
469.5	0.5										
		476.1	1.1	100	SS	Lt. Gy	F				
		478.3	2.2	100	SS	Gy-Lt. Gy	C-V.F	thn sms			Good radioactivity in thn cbn sms; moderate
488.5	19.0										to weak radioactivity in enclosing SS.
											No visible U_3O_8 miml. SS grades from
											C to V.F to P to base.
503.5	15.0	505.6	27.3	100	SS	Lt. Gy	F-V.F		thn sms 491.5		
		513.8	8.2	46.3	Ms-sts	Gn					
515.0	6.0	515.0	1.2	100	SS	Gy Gn	V.F+silty				

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
476.1	0.3'	0.03		8.6									479.9	2.2	0.20	
Sample No. 334 0.3' actual core													Babbel probe results			
477.4	1.0	0.32		6.8												
Sample No. 335 1.0' actual core																
478.2	0.9	0.15		10.8												
Sample No. 336 0.9' actual core																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-8

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-9 ( )
Inclination Vert Bearing Down
Total depth 464
Collar elev. 4,494.5 T P
Area San Rafael Reef

Map coord (T) N503,587.6 E 496,226.7
Map coord (P)
Sec 22 T 21S R 14E
Co. State Emery, Utah

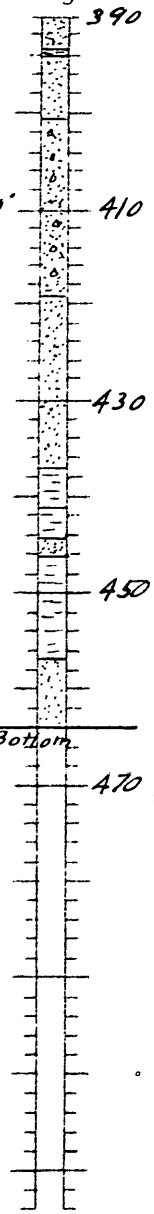
Claim Dede No. 7
Date completed 6-29-55
Date logged 6-30-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Barren Hole ; OBSS from 394.1 to 437.2 thick 43.1 ; SS color Wh-Lt.Gy ; MS Nil ; Chn some sms.

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		393.8	3.8	100	SS	Lt.Gy Gn Lt.Gy	F-V.F			Gn sm 391.2	Plug bit 0-390 SS well cemented
		394.1	0.3	100	Ms	Gn	Sandy				dmb-dmsw Contact gradational 394.0'
		400.7	6.6	100	SS	Wh-Lt.Gy	F-V.F				
409.0	19.0	419.5	18.8	100	SS	Wh-Lt.Gy	V.F-M+C Congl	Angular bleached Pbls in Congl.	FKs 400.5		Tbd V.F-M grained ss + C Congl
428.0	19.0	437.2	17.7	100	SS	Wh-Lt.Gy	F-M		sms 426.1-426.6 sm 430.8		
		441.4	4.2	100	Sts	Gy Gn-Gn					
		444.2	2.8	100	sts-Ms	R+Gn					
447.0	18.4	446.1	1.9	100	SS	Gy Gn.	V.F				
		456.8	10.7	74.8	sts-Ms	R+Gn					
		464.0	7.2	100	SS	Lt.Gy - Lt.R.Br	V.F				
464.0	15.2										

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 8-50 41

Hole No A-9

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-14 ( )
Inclination Vert Bearing down
Total depth 372
Collar elev 4,424.2 T P
Area San Rafael Reef

Map coord (T) N504,214.0 E496,312.4
Map coord (P)
Sec 22 T 21S R 14E
County Emery, Utah

Claim Dede No. 6
Date completed 6-3-55
Date logged 6-3-55
Logged by J. E. Morgan

Rev
Ed

Summary of log Mineralized ; OBSS from 301.8 to 361.5 thick 59.7 SS color Lt. Gy ; MS Some pbls ; Chert sporadic sms FKs.

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Chert	MS in SS	Remarks
		286.0	1.0	100	SS	Lt. Gy. Gn	V.F+ silty				Plug bit 0-285
		286.9	0.9	100	Ms	Gn					
		291.0	4.1	100	Sts + silty ss	DGy Gn + R					
		296.6	5.6	100	SS	Wh	F	Occ R Chert pbls			Limy + well cemented at base
		301.8	5.2	100	Ms	R+Gn					
304.0	19.0	304.5	2.7	100	SS	Gy Gn Lt. Gy	F to silty				Jmb-Jmsw contact gradational
		332.9	28.4	100	SS	Lt. Gy	F-C Congl	Angular bleached pbls in Congl.			301.8 304.5
323.0	19.0										
		338.2	5.3	100	SS	Lt. Gy	F		Sm 338.0		Thn sm. radioactive asphaltic mtl. In carbonaceous Ms sm 337.9-338.0; Xbdg 75°
		339.7	1.5	100	SS	Lt. Gy	F-M			small Gy pbls	
342.0	19.0	355.1	15.4	100	SS	Lt. Gy	F		Spx 353.3-355.1	Gn pbls	Xbdg near base @ 65°
		355.7	0.6	100	Sts	Gy Gn					
361.0	19.0	361.5	5.8	100	SS	Lt. Gy	V.F				
		363.0	1.5	100	Sts	Gy Gn					
		365.5	2.5	100	SS	Gy	V.F+ silty				
		366.0	0.9	100	Ms sts	Gy Gn					
		368.3	2.3	100	SS	Gy	V.F+ silty				
372.0	8.9	372.0	3.7	00	Ms	Gy					Core lost bottom 2'; Driller reports Ms.

Graphic log: 285, 305, 325, 345, 365, 385

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$
338.0	0.2	0.01							
Sample No 325									
Actual Core 0.2									

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			340.8	0.2	0.06	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

Hole No A-14

RECEIVED
AUG - 8 1955

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

224 New Customhouse
Denver 2, Colorado

July 18, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Co., Ltd., Emery County, Utah

Enclosed are two copies of the Operator's Monthly Progress Report, form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data pertaining to work under the subject contract for the month of May, 1955.

W. M. Traver

Enclosurea

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

224 New Customhouse
Denver 2, Colorado

July 8, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3620, Contract Idm-E792, (Uranium), Uranium Prospectors Co., Ltd., Emery County, Utah - Operator's Monthly Progress Report for the month of May, 1955

Enclosed are the original and four copies of form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remarks:

Date of Report.....June 9, 1955
Date Received in Field Office.....June 29, 1955
Date Received in Region Office.....July 7, 1955

W. M. Traver

Enclosures

RDB:sr

cc Subject
Sec. Op. Comm. (2)
Wilson
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd
JUL 7 1955
BUREAU OF MINES
Denver, Colorado

July 5, 1955

Memorandum

To: W. M. Trower, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3680 (Uranium), Contract Ida-5732, Uranium Prospectors Co., Ltd., Emery County, Utah. MF-104 forms for May 1955

The attached copies of the subject operator's report describe work accomplished during May 1955. An inspection of the project site was made by W. R. Young June 15, 1955.

Work reported during the period consisted of road construction, drill-site preparation, and diamond drilling. A total of 610 feet of core drilling and 885 feet of non-core drilling was completed during the month. These totals were verified by the inspecting engineer. Work accomplished is in conformance with the contract and it is recommended that the operator be reimbursed by 75 percent of $4,625.50, the amount expended during the period.

The MF-104 forms were received from the operator June 13, 1955. However, because of errors, the forms were returned to the operator. The corrected forms were received in this office June 30, 1955.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. Bruce Clemmer

S. R. Wilson July 5, 1955

W. E. Young

Docket No. DMEA-3530 (Uranium), Contract IdM-2792, Uranium Prospectors Co., Ltd., Emery County, Utah. Progress report and MF-104 forms for May 1955

The subject property was inspected June 15, 1955. The progress reported for May 1955 has been made. Road construction and site construction, as reported for the period, has been done. Three holes were completed.

The operator reports that hole A-15 was cored at 220 feet, as it could not be probed by the AEC unit. However, the company probed the hole immediately after completion with their Hubbel probe. They plan to reopen the hole at a later date for probing by the USGS unit. The contract calls for 70 feet of core drilling in each hole except A-1 and A-15, which are to be cored through the Salt Wash. Hole A-11 was cored for 137 feet because of excessive thickness of the sandstone.

The operator's narrative report and map are considered adequate. The MF-104 and MF-104A forms agree as to monthly cost and the total project costs to date.

It is recommended that the operator be reimbursed for $3,478.88. This is 75 percent of $4,638.50, the amount expended during May 1955.

W. E. Young

W. E. Young

June 9, 1955

Mr. S. H. Wilson
U.S. Bureau of Mines
1600 East First South Street
Salt Lake City, Utah

Re: Docket DMEA 3620 (Uranium)
Contract Idm-5792

Dear Mr. Wilson:

We submit herewith our first monthly progress report of Exploration Project authorized by above numbered contract.

In accordance with outlined reporting procedures, the following data are attached hereto: (5 copies)

1) Narrative Report
2) Form MF-104 "Operator's Monthly Report and Voucher".
3) Form MF-104A "Operator's Unit Cost and Progress Report".
4) Statement - Cannon Diamond Drilling Company.
5) Certificate of Analysis - Brown Laboratory.
6) Geologic and Assay Logs, Holes A-1, A-11, A-15.
7) Progress Map, Showing Drill Hole Locations.
8) Driller's Reports

This report covers the period of May 17 to May 31, 1955.

Very truly yours,

URANIUM PROSPECTORS COMPANY, LTD.

J. C. Deringer
Vice President

JCD:sb
Encl.: Listed above

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED JUN 29 1955 Salt Lake City, Utah

RECEIVED JUL 1 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May 17-31 195 5 Docket No. DMEA 3620 Contract No. [illegible]-2792

Operator's Name Uranium Prospectors Company, Ltd. Minerals Uranium

Address 716 North 5th St., Grand Junction, Colo.

Contract Amount, $ 32,742.50 Government Participation: 75 % Amount, $ 24,556.90

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:						
Drilling	3,321.75	None	3,321.75			
Bulldozing	208.00	None	208.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	10.00	None	10.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify): Incidental allow., F.U. costs per contract Exhibit A	1,098.75	None	1,098.75			
TOTALS	4,638.50	None	4,638.50			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 9, 1955 *Payee Uranium Prospectors Co., Ltd.

Per [signature] Title Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3478.88

Signature [signature] (Authorized Certifying Officer)

Date 7/12/55 Vou. No. DMA-56-3

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Adm-E792 in accordance with the terms of the contract.

Signature W. E. Young Jr. Title Mining Engineer Date July 5, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk.

Signature W. M. Lamer Title Executive Officer Date JUL - 8 1955

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
JUL 2 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 17-31 195 5 Docket No. DMEA 3620 Contract No. Idm-2792
Operator's Name Uranium Prospectors Company, Ltd.
Address 718 North 5th St., Grand Junction, Colo. Minerals Uranium

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	2,013.00	610	2,013.00	610	3.30	1,490	$ 3.50
Non-core Churn 0' - 300'	ft.	1,125.00	750	1,125.00	750	1.50	9,950	1.75
Non-core Auger 300'-650'	ft.	183.75	105	183.75	105	1.75		
Stripping Reservoir Const.	hr.						5	13.00
Trenching Incidental allow.	ft.	1,098.75	1,465	1,098.75	1,465	.75	11,440	.75
Test Pits Analyses	sample	10.00	2	10.00	2	5.00	60	5.00
Roads and Trails	hr.	108.00	9	108.00	9	12.00	75	13.00
Drill Site Const.	hr.	100.00	8-1/3	100.00	8-1/3	12.00	15	13.00
Total Distributed Costs		4,638.50		4,638.50				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		4,638.50		4,638.50				$32,742.40

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Remarks:

Date June 9, 1955 Operator Uranium Prospectors Co., Ltd.

Per [signature] Title Vice President

NOTE.—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.

(Instructions on reverse)

(For Government use only)

W. E. Young
Mining Engineer
GREW

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

CANNON DIAMOND DRILLING CO.

Compton, Calif. • Grand Junction, Colo.

Rotary
Percussion

Calyx
Coring

Compton, Calif.
P. O. Box 549
Tel. Ne. 1-9341

Grand Junction, Colo.
P. O. Box 712
Tel. 2605

June 7, 1955

STATEMENT

TO: Uranium Prospectors Company
718 North 5th Street
Grand Junction, Colorado

Drilling May 17 - May 27, 1955

Hole No.	0-300	300-650	0-650(Core)
A-15	300	105	251
A-1	165		232
A-11	285		127
	750	105	610

750 feet drilled	@ $1.50 per foot	$1125.00
105 " "	@ $1.75 " "	$ 183.75
610 " "	@ $3.30 " "	$2013.00
17 Hrs. 20 Min. Cat Work	@ $12.00 per hour	$ 208.00
		$3529.75

Cannon Diamond Drilling Co.

Jack B. Bailey

CERTIFIED CORRECT -

[illegible]

EXPLORATION PROJECT CONTRACT IDM-E792

URANIUM PROSPECTORS COMPANY, LTD.

DOCKET NO. DMEA 3620

PROGRESS REPORT May 17-31, 1955

Drilling

The Cannon Diamond Drilling Company of Grand Junction, Colorado was awarded the contract for drilling of the Uranium Prospectors Co., Ltd. property southwest of Green River, Utah, as authorized by contract IDM-E792. The Cannon Diamond Drilling Company bid the following footage prices:

Non Core	0-300'	$1.50
Non Core	300-650'	$1.75
Coring N.X.	0-650'	$3.30

Drilling began with one portadrill on May 17th. As of May 31st, 3 holes have been completed with 855 feet of non-core and 610 feet of core having been drilled. Core recovery to date averages 95.7%. Completed drill holes are tabulated below:

Hole No.	Non-core	Core	Total Depth	Date Completed	Remarks
A-15	405	251	656	5/23/55	Mineralized
A-1	165	232	397	5/25/55	ore
A-11	285	127	412	5/27/55	barren
Total	855	610	1,465		

The ore-bearing sandstone has been found to be extremely variable in thickness, and in places it is considerably thicker than anticipated. Although 70 feet of core has been designated for each hole, other than A-1 and A-15 holes, it is thought unwise to stop coring at 70 feet below the upper saltwash contact, if the hole has not yet penetrated the base of the ore-bearing sandstone.

Progress Report May 17-31, 1955.

Drilling (continued)

As a consequence, it is anticipated that the allotted core footage will have been used prior to completion of the first stage drilling.

Radiometric Logging

The U.S. Geological Survey Barnaby unit was at the project May 25th. Hole A-1 was probed upon completion. An attempt was made to probe hole A-15, which was completed May 23rd, but the hole was caved at a depth of 250 feet. It is planned to open this hole for probing at a later date. It was recommended that the Company have the Atomic Energy Commission probe all future holes with the scintillation logging unit to insure a graphic record of each hole in the event that some of the holes should cave prior to logging by the Barnaby unit. Such arrangements have been made. However, the A.E.C. unit is scheduled for transfer from the area June 2nd, and this service will not be available after that date.

Drill Sites and Access Roads

A D-6 caterpillar has been hired from the Cannon Diamond Drilling Company at a cost of $12.00 per hour for the construction of drill sites and access roads. During this reporting period a total of 8 hours and 20 minutes was required for the construction of 14 drill sites, and 9 hours was required for the construction of approximately 2,000 feet of access road.

URANIUM PROSPECTORS COMPANY, LTD.

D. C. Deringer

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Uranium Prospectors Co., Ltd.
718 North 5th Street
Grand Junction, Colorado

Date 6-2-55
Order No. 3318-1

Material: Ore Samples
Received: 5-31-55
For: Analysis

Lab. No.	Your No.	Description	%U_3O_8	%V_2O_5	%$CaCO_3$
3318-1	323		0.02		3.5
3318-2	324		0.22		7.5

Analyst.

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-11 ( )
Inclination Vert Bearing down
Total depth 413
Collar elev 4,425.2 T P
Area San Rafael Reef

Map coord (T) N503,855.5 E496,204.3
Map coord (P)
Sec. 22 T 21S R 14E
Co., State Emery, Utah

Claim Dede No. 7
Date completed 5-27-55
Date logged 5-27-55
Logged by J. E. Morgan

Rev		
Ed		

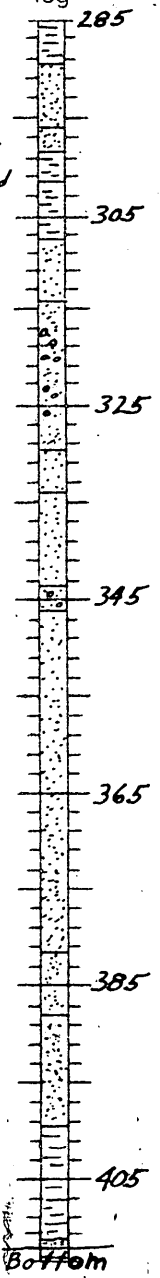
Summary of log barren hole ; OBSS from 307.3 to 399.6 thick 92.3 ; SS color Lt. Gy ; MS Sparse ; Cbn. some

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec. ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
299.0	14.0	289.5	4.5	100	Ms	R+Gn					Plug bit 0-285; Jmb-Jmsw contact
		296.3	6.8	100	SS	Lt. Gy	F			Thn. Rsm at base	abrupt at 289.5; Vert carbonate filled
		298.8	2.5	100	SS	Gy Gn	F+silty				fractures in ss below contact
		301.4	2.6	100	Ms	R					
309.0	10.0	307.3	5.9	100	Sts-Ms	R+Gn					
		314.5	7.2	100	SS	Lt. Gy	F			Gy. sm. 313.5	Xbdg @ 65° 313.5-314.5
328.0	19.0	329.5	15.0	100	SS	Lt. Gy	F-Congl.	Bleached Pbls		Some pbls in Congl.	Alternating bands Congl + F.G. ss
		334.2	4.7	100	SS	Lt. Gy	M-F				
338.0	10.0	343.5	9.3	100	SS	Lt. Gy	M		Sm 340.0		Thn. sms asphaltic mtl. 340.0-340.2
		346.4	2.9	100	SS	Lt. Gy	M congl.		Sm 345.4		
357.0	19.0	381.4	35.0	100	SS	Lt. Gy	F		Sm 375.5	Occ. Gn. pbls	
376.0	19.0	387.9	6.5	100	SS	Lt. Gy	V.F.			Occ. Gn sms	
		399.6	11.7	100	SS	Lt. Gy	F-M		Spx 396	Abundant Gn.	Loosely cemented; Xbdg @ 55°
395.0	19.0								Spx 399	Pbls. 396.8	
		412.4	12.8	100	Ms Sts	R+Gn					
412.0	17.0	412.0	0.6	100	SS	Lt. Gy	V.F			Abundant Gn. pbls throughout	Very hard & well cemented

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

Graphic log



CPO 835041

Hole No. A-11 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-1 ( )
Inclination Vert Bearing down
Total depth 397
Collar elev. 4,395.2 T P
Area San Rafael Reef

Map coord (T) N503,282.3 E495,325.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Pee Wee No. 1
Date completed 5-25-55
Date logged 5-26-55
Logged by J.E. Morgan

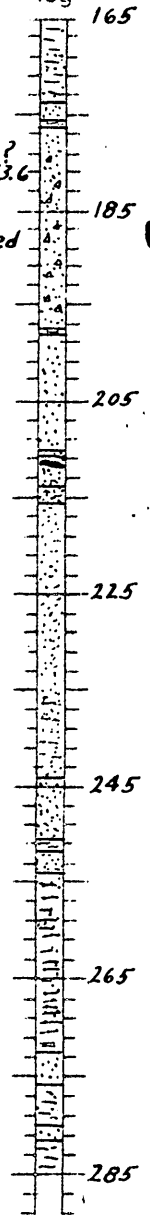
Rev		
Ed		

Summary of log ore hole; OBSS from 173.6 to 254.5 thick 80.9; SS color Gy; MS some; Cbn. some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		173.6	8.6	100	Tbd Ms Sts, SS	R-Gn-ppl	VF & silty		Sm 172.8		Plug bit 0-165.0
		175.4	1.8	100	SS	Lt. Gy					Umb-Umsw contact gradational ? 173.6
		176.3	0.9	100	Ms	D. Gy	VF				
184.0	18.0	197.3	11.0	90.9	SS	Lt. Gy	M-Congl	Bleached angular pbls in congl.			Alternating lenses M-grained well sorted SS + M-C grained congl.; pbls to ½"
		197.6	0.3	100	Ms	Gn					
203.0	19.0	210.6	13.0	100	SS	Wh	F			Occ. Gn pbls	
		210.8	0.2	100	SS	Lt. Gy	C	Some bleached grains			
		213.8	3.0	33.3	SS	Lt. Gy	F		Sm 211.8	Gn pbls at base	Good R.A in vitreous asphaltic sm 211.8
214.0	10.0										1.0' core loss in ore zone
		215.6	1.8	100	SS	Lt. Gy	M-C		Sm 215.6	Some Gy Pbls	
233.0	11.7	244.5	28.9	65.3	SS	Lt. Gy	F			Abundany Gy sms 236.0-244.5	Xbdg @ 75° 215.6-216.0; SS soft + poorly cemented
249.0	13.3	251.8	7.3	100	SS	Lt. Gy	V.F				Becomes silty near base
		252.3	0.5	100	Ms	D Gy					
		254.5	2.2	100	SS	Lt. Gy	V.F			Thn. Gy sms.	Well cemented; Xbdg @ 65° near base
264.0	15.0	272.9	18.4	100	Ms-sts	D Gy					
		276.0	3.1	100	SS	Wh	F-V.F		Sp x. 274		Hard well cemented
		280.0	4.0	100	Ms-sts	R+Gn			Sm 278		
283.0	19.0	281.3	1.3	100	SS	Lt. Gy	F				Very hard + well cemented
		306.2	24.9	100	Ms-sts	R+Gn					Occ thn lenses Gy silty SS

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ ray (%e) or Field est			
Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
211.8	1.0'	0.22		7.5									211.8	1.0'	0.27	
Sample No. 324													Babbel probe results			
Actual core 0.1'																

Graphic log



*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-1 Page 1 of 2

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-1 ( )
Inclination Vert Bearing down
Total depth 397.0
Collar elev. 4,395.2 T P
Area San Rafael Reef

Map coord (T) N503,282.3 E495,325.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

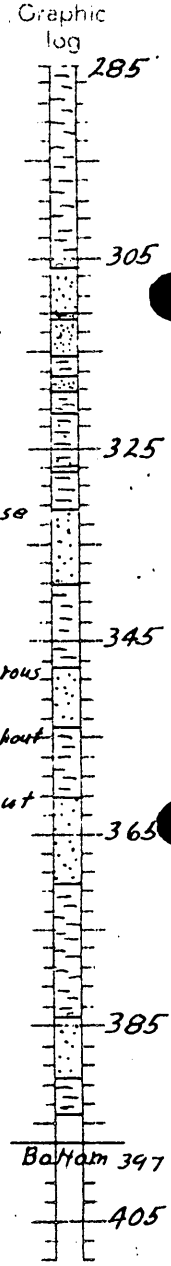
Claim Pee Wee No. 1
Date completed 5-25-55
Date logged 5-26-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log : OBSS from to thick : SS color , MS : Cbn.

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		311.0	4.8	100	SS	Wh	F				Hard + well cemented
		311.6	0.6	100	Ms	R+Gn					
		315.3	3.7	100	SS	Wh	F			Gn pbls near base	Very hard + well cemented
		317.4	2.1	100	Ms	R+Gn			Sm 317.2		
		319.2	1.8	100	SS	Lt. Gy	F				
321.0	19.0	321.4	2.2	100	Ms	Gn					Becomes sandy near base
		327.2	5.8	100	SS-Sts	Gy	VF+silty				Tbd sts + silty SS
		331.6	4.4	100	Sts	R+Gn					
		339.0	7.4	100	SS	Wh	F				
340.0	19.0	347.7	8.7	100	Ms-sts	R+Gn					Thn gypsum strgrs. 344.0-346.0
		354.0	6.3	100	SS	Wh	F				Becomes coarse + poorly sorted at base
359.0	19.0	361.0	7.0	100	Ms-sts	R+Gn					
		370.2	9.2	100	SS	Wh	V.F.			Gn pbls + sms.	364.0-370.2
378.0		384.6	14.4	100	Sts	R+Gn					Abundant Gypsum nodules 378.6-385.2;
~~368.0~~	19.0										Some R. chert nodules 382.2-385.2
		390.6	6.0	100	SS	Lt.Gy	F				Grain becomes coarse near base; Numerous
											fibrous gypsum veins throughout
		394.2	3.6	100	Sts	R+Gn					Some Gypsum + R. chert nodules throughout
											Base Jmsw 394.2
397.0	19.0	397.0	2.8	100	Gypsum	Wh	Massive				Some contorted Gy sts beds throughout
											Abundant chert nodules near top

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5



*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-1 Page 2 of 2

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev. 4,471.6 T P
Area San Rafael Reef

Map coord (T) N504,866.7 E497,180.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by JE Morgan

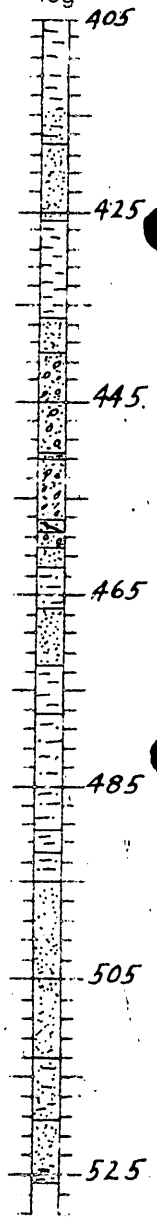
Rev		
Ed		

Summary of log mineralized hole; OBSS from 436.8 to 462.6 thick 26.6; SS color Lt. Gy; MS Some; Cbn. Some

DRILL LOG / LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		418.3	13.3	100	Ms	R & Gn	Sandy				Plug bit 0-405' Jmb-Jmsw
424.0	19.0	426.0	8.7	100	Ss	Lt. Gy	F-VF	Angular red chert pbls near base			Contact 418.3
		436.8	10.8	100	Ms	R & Gn	Sandy				Grain becomes coarse & poorly sorted near base
443.0	19.0	442.5	5.7	100	Ss	Lt. Gy	M-F				
		451.0	8.5	100	Ss	Lt. Gy	Congl.	Angular bleached appearing Pbls		Gn pbls, A	
		451.8	0.8	100	Ss	Lt. Gy	F				
		457.3	5.5	100	Ss	Lt. Gy	Congl.	Angular bleached appearing pbls		Gn pbls, some	
		457.9	0.6	100	Ss	D Gy	F		blebs	thn D.Gy sms	Weak R.A. in vitreous asphaltic blebs
		459.3	1.5	100	Ss	Lt. Gy	Congl.				within carbonaceous Ms sms.
462.0	19.0	462.6	3.3	100	Ss	Lt. Gy	F	Angular red chert Pbls near base			Grain coarse & poorly sorted near base.
		466.4	3.8	100	Sts	Gy-Gn					
		472.1	5.7	100	Ss	Lt. Gy	VF & silty			Occ. thn Gy sms	
476.0	12.9	477.1	5.0	78.0	Ms	R & Gn					
		489.8	12.7	100	Sts	R & Gn					Occ. thn lenses Gy Gn silty ss
		491.8	2.0	100	Ms	R & Gn					
495.0	19.0	495.0	3.2	100	Sts	R & Gn					
		513.0	18.0	100	Ss	Wh ~~R & Gn~~ Lt. Gy	F-VF	Occ. R. chert pbls			
514.0	19.0	519.3	6.3	100	Ss	Wh-Lt. Gy	F-VF		blebs	Gy sms & pbls, A	Vitreous asphaltic blebs 517.5
		525.5	6.2	100	Ss	Wh-Lt. Gy	F-VF			Gy sms & pbls near base	
529.0	15.0										

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$
457.9	0.6	0.02		3.5					
Sample		No. 323							
Actual		core 0.6'							

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			457.9	0.6	0.01	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev. 4471.6 T P
Area San Rafael Reef

Map coord (T) N504,866.7 E497,180.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

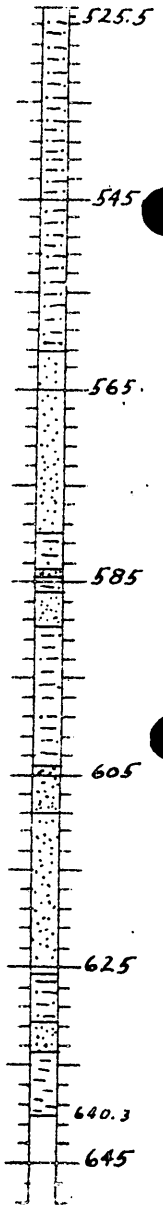
Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by JE Morgan

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
548.0	17.2	561.0	35.5	94.7	Sts	R+Gn					
566.0	18.0	579.8	18.8	100	SS	Wh	F-V.F.			Gn pbls, S, at base	
		583.3	3.5	100	Ms+sts	R+Gn					
		584.2	0.9	100	SS	Lt. Gy	V.F				SS well cemented
585.0	19.0	586.0	1.8	100	Sts	R+Gn					
		589.8	3.8	100	SS	Lt Gy	V.F.	Thn R. Chert congl. lens			
604.0	19.0	604.0	14.2	100	Sts+Ms	R+Gn					
		609.0	5.0	100	SS	Lt. Gy	VF+silty			Thn gn Sms	
623.0	9.5	625.8	16.8	43.5	SS	Lt. Gy	VF				
		630.9	5.1	100	Sts	D Gy					
		633.6	2.7	100	SS	Lt. Gy	V.F				SS Very well cemented
		640.3	6.2	91.9	Ms	D Gy	Sandy near base				Abundant R. chert & white gypsum nodules 638.8 – 648.8

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev 4471.6 T P
Area San Rafael Reef

Map coord (T) N 5048667 E 497,180.6
Map coord (P)
Sec. 22 T. 21 S R. 14 E
Co., State Emery, Utah

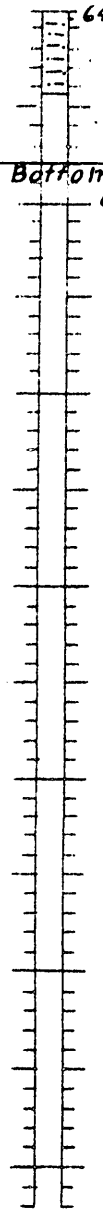
Claim Dede No 5
Date completed 5-23-55
Date logged 5-24-55
Logged by J E Morgan

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color , MS ; Cbn

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
642.0	18.5	648.8	8.5	83.3	Sts	R-Br					Base Jmsw? 648.8
656.0	12.6	656.0	7.2	100	Gyp	Wh & Or	massive			Thn. sms Gy Sts	

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-15 Page 3 of 3

Cannon Diamond Drilling Co.

Rig - R-5

DAILY REPORT

JOB Uranium Prospects STATION Perio Drill DATE 9/24/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Rotary Drill	A-1	0-165-Rotary	165'
Diamond Drill		165-214-Core	49'
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Rodeliff	8
Wilson	8
Hornsby	8

REMARKS

~~FOREMAN~~ Driller - Elmer A Rodeliff

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Report

DAILY REPORT

JOB [illegible] STATION [illegible] DATE [illegible] SHIFT 2

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Rotary Drill	A-1	214 - 302 ft	88'
Diamond Drill			
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
[illegible]	8
[illegible]	8

REMARKS

~~FOREMAN~~ [illegible]

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig - R-5

DAILY REPORT

JOB Uranium Prospector STATION Porter Drill DATE 5/25/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Rotary Drill	A-1	302-397	95'
Diamond Drill		Car	
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Ralph Cliff	11
Wilson	11
Hancock	11

REMARKS

~~FOREMAN~~ Driller - Vernon H. Ralph

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

DAILY REPORT

JOB [illegible] STATION [illegible] DATE [illegible] SHIFT [illegible]

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Drill	[illegible]	[illegible]	[illegible]
Diamond Drill			
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
[illegible]	[illegible]
[illegible]	[illegible]

REMARKS

[illegible]

[illegible]

[illegible]

FOREMAN [illegible]

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig R-5

DAILY REPORT

JOB Yoman Prospects STATION Pilot Drill DATE 5/26/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
Rotary ~~Percussion~~ Drill	A-11	0-265	265'
Diamond Drill		Plug	
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Radcliff	8½
Gibson	8½
Horneck	8½

REMARKS Broken bit in hole at 225'. Hole redrilled.

FOREMAN

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

DAILY REPORT

JOB [illegible] STATION [illegible] DATE 5/26/[illegible] SHIFT 2

	HOLE NO.	FEET	TOTAL
Percussion Drill	A-11	285 to 285	30'
Diamond Drill		Plug	
Pipe Installed		285 to 357	72'
Grout Placed		Core	

CREW

NAME	HOURS
Alexander	8
West	8
Gibson	2½

REMARKS

FOREMAN

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig-R-5

DAILY REPORT

JOB Uranium Prospector STATION Relia Drill DATE 5/21/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Rotary Drill	A-11	357-412	55'
Diamond Drill		core	
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Robert Hudson	8

REMARKS

Moved to Hole A-14

FOREMAN Driller Vernon Robert

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig #R5
uranium
Porta

DAILY REPORT

JOB Prospectus STATION Drill DATE 5/17/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
~~Rotary~~ Percussion Drill	A 15	0-210 Plug	210'
Diamond Drill			
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Rodcliff	8
Alexander	8
Hancock	8

REMARKS

FOREMAN Driller - Vernon H Rodcliff

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

DAILY REPORT

JOB [illegible] STATION [illegible] DATE 7/18/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
Percussion Drill	A-15	210-1105	195
Diamond Drill			
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
[illegible]	7
[illegible]	7
[illegible]	7

REMARKS

FOREMAN [illegible]

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig-R-5

DAILY REPORT

JOB Uranium Prospects STATION Porta Drill DATE 5/19/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
~~Rotary~~ ~~Percussion~~ Drill	A-15	405-429	124'
Diamond Drill		Core	
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Radcliff	16
Alexander	16
Hancock	16

REMARKS

~~FOREMAN~~ Driller - Vernon H. Radcliff

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

DAILY REPORT

JOB [illegible] STATION [illegible] DATE [illegible] SHIFT [illegible]

	HOLE NO.	FEET	TOTAL
Percussion Drill	[illegible]	[illegible]	[illegible]
Diamond Drill			
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

REMARKS [illegible]

FOREMAN [illegible]

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig R-5

DAILY REPORT

JOB Uranium prospecting STATION Rio Drill DATE 5/23/55 SHIFT 1

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Rotary Drill	A-15	585-619	34'
Diamond Drill			
Pipe Installed			
Grout Placed			

CREW

NAME	HOURS
Radcliff	9
Gibson	9
Moncorb	9

REMARKS

~~FOREMAN~~ Driller - Vernon H Radcliff

ENGINEER IN CHARGE

Cannon Diamond Drilling Co.

Rig # R5 **DAILY REPORT**

JOB Uranium Prospecting STATION Porter Draw DATE 5/23/55 SHIFT 2

	HOLE NO.	FEET	TOTAL
~~Percussion~~ Rotary Drill	A-15	619 to 656 cont	37'
Diamond Drill			
Pipe Installed	Hole bottomed		
Grout Placed			

CREW

NAME	HOURS
Alexander	8
Vail	8

REMARKS

~~FOREMAN~~ Driller Wayne Alexander

ENGINEER IN CHARGE

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

Defense Minerals Administration
RECEIVED
MAY 12 1955

224 New Customhouse
Denver 2, Colorado

May 9, 1955

REGISTERED

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3620 (Uranium), Contract Idm-E792, Uranium Prospectors Company, Ltd., Emery County, Utah

Enclosed are the Government, Division and Docket copies of Contract Idm-E792 which was forwarded by your letter of April 28, 1955 for signature by the operator.

Copies of the contract have been given to the operator, the Finance Office, Region III, and a copy has been retained for our files.

W. M. Traver

W. M. Traver

Enclosures

700

Surname copy
Murphy
Ellis
Chandler
Selfridge
Johnson

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

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

APR 28 1955

Re: Docket No. DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Dede et al., claims
Emery County, Utah

Dear Mr. Traver:

Enclosed are the original and five copies of a proposed long-form contract between the Government and Uranium Prospectors Company, Ltd.

You will note that under the proposed contract's "Exhibit 'A'-General Provisions" that a supervising engineer and a geologist shall be employed full time. Our usual contract only allows one or the other; however, as three drill rigs will be employed during the contract, and all holes will be probed with company-owned radioactivity testing equipment, it is believed that this extra supervision is warranted.

If you and an authorized representative of the Uranium Prospectors Company, Ltd. find the proposed contract in order, please insert in Article 3 of the contract the date work shall commence. Then have the representative sign the original and all copies, and thereafter kindly make the usual distribution.

Sincerely yours,

George C. Selfridge By ESF
Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan By ESF
Member, Bureau of Mines

Thor H. Kiilsgaard By ESF
Member, Geological Survey

FMMurphy/gla 4-22-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J.E.Crawford, Rm. 3641
T.H.Kiilsgaard, Rm. 5224
J.O.Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

RCS

4/21/55 gla

IN REPLY REFER TO:

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

Defense Minerals Exp. Adm.
RECEIVED
APR 21 1955

April 20, 1955

Memorandum

To: Mr. E. W. Ellis, Chief, Rare and Miscellaneous Metals Division, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report on Uranium Prospectors application, DMEA Docket 3620

The Field Team report recommends that an exploration project contract be awarded the applicant, the work to be in two stages, the first stage consisting of 17 diamond drill holes and the second stage 8 diamond drill holes. Two of the holes, A-1 and A-15 are to be cored throughout; the remaining holes to be drilled by plugged bit except for the upper 70 feet of the Salt Wash formation, which is to be cored in all holes.

The property to be explored comprises the Dede Nos. 1 to 8 inclusive, Pee Wee Nos. 1 to 3 inclusive, and Simon J. Nos. 1 and 2 is situated on the northeast side of the San Rafael Swell. In this area the Shinarump and Morrison formations are known to contain uranium deposits. Previous drilling has found ore around the property and one hole on the property has intersected ore. The Four Corners Uranium Company, on adjacent claims to the west, is reported to be producing about 550 tons of ore per month, the grade of which averages 0.37 percent U_3O_8 and 0.66 percent V_2O_5.

The Field Team report gives ample reasons for justification of a contract and I therefore concur with their recommendations for a contract.

One point in the Field Team report that may warrant attention concerns the proposal to have the applicant use his own radiometric equipment to log the holes. No cost allowance for this work is noted in the section on project costs. It is therefore suggested that either a depreciation allowance for the Gamma-ray equipment be written in the contract under Operating Equipment or else it be simply stated that radiometric logging of all holes shall be the sole responsibility

of the operator. If the latter proposal is adopted it would be assumed that cost of the logging will be the responsibility of the operator; however, if DMEA is to place such responsibility on the operator it seems to me DMEA should share in the logging costs.

Peter H. Kiilsgaard

T. H. Kiilsgaard

4/19/55 gla

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

U.S. Atomic Energy Commission
Defense Minerals Administration
RECEIVED
APR 19 1955

April 18, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3620, Uranium Prospectors Company, Ltd., Dede, Pee Wee and Simon J. claims, Emery County, Utah

I have reviewed the Field Team report of examination of Uranium Prospectors Company, Ltd., DMEA Docket 3620, and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the Field Team that the ore horizon be cored in all first stage holes; other recommendations of the Field Team also appear in order.

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

John E. Crawford

John E. Crawford

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

April 12, 1955

Memorandum

To: Acting Assistant Solicitor, DMEA

From: Fred M. Murphy, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-3620 (Uranium)
Uranium Prospectors Company, Ltd.
Dede, et al. claims
Emery County, Utah

Will you kindly prepare a long-form contract with the subject Applicant in accordance with the attached draft.

We lack the Owner's Consent to Lien forms; however, the Field Team advised on April 4, 1955, that they would be forwarded when received by their office. The contract may be drafted subject to attachment of the Owner's Consent to Lien.

F. M. Murphy

Attachments

FMMurphy/gla
cc to: Docket
Code 700
Mr. Murphy

4/15/55 gla

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

224 New Customhouse
Denver 2, Colorado

April 12, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3620 (Uranium), Uranium Prospectors Co., Ltd., Emery County, Utah

Enclosed are the original and five copies (signed) of form MF-203, Owner's Consent to Lien, on the subject docket.

The report of examination on the subject property was forwarded to your office April 4, 1955 and we believe that you now have all the necessary information to prepare a contract.

W. M. Traver

W. M. Traver

Enclosures

4/7/55 gla

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

224 New Customhouse
Denver 2, Colorado

April 4, 1955

Mr. D. C. Deringer
Uranium Prospectors Co., Ltd.
718 North 5th Street
Grand Junction, Colorado

Re: Docket DMEA 3620

Dear Ding:

Enclosed are the original and five copies of form MF-203, Owner's Consent to Lien.

Will you please have the owners sign and return all six copies to this office.

In Item 2, if there are no claims, liens or encumbrances, will you please write "none" in the space provided on all copies of the form.

As soon as we receive the signed copies of form MF-203, we will forward them to the Washington office for use in the proposed contract.

Very truly yours,

W. M. Traver

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

HMC:sr

cc Secretary to the Op. Comm. (2)
Subject
Chron
Connors

4/12/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 6 1955

224 New Customhouse
Denver 2, Colorado

April 4, 1955

ON-SITE EXAM

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3620 (Uranium), Uranium Prospectors Company, Ltd., Dede, Pee Wee and Simon J claims, Emery County, Utah

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

We recommend that consideration be given to coring the ore horizon, the upper 70 feet of the Salt Wash, in all first-stage holes, rather than in only three holes as proposed in the USGS report. We also recommend that the cost of chemical analyses be changed to $5.00 each instead of $6.00 as shown in the Bureau of Mines report.

Nine copies each of Figures 1 and 2 are included for possible use in the contract.

Forms MF-203, Owner's Consent to Lien, have been forwarded the applicant for the signatures of the owners, and will be forwarded you when they are received by this office.

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
4-11-55
(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

TRANSMITTED
APR 4 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DMEA
Date Rec'd. RECEIVED
APR 6 1955

MAR 17 1955

March 16, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3620 (Uranium), Uranium Prospectors Co., Ltd., Dede, Pee Wee and Simon J claims, Emery County, Utah

Attached are the original and 10 copies of an engineering report covering examination of the subject group of claims for DMEA loan appraisal. The report was prepared by W. E. Young. Also included are copies of a separate section, Summary, Conclusions and Recommendations, three copies each of forms 6-803 and 6-993, and a copy of the brochure.

The applicant has requested a loan of $32,529.20 to conduct an exploratory program consisting of diamond drilling in two stages. The applicant proposes that a total of 11,880 feet of drilling be accomplished in 26 holes, 20 holes to be drilled in the first stage, and 6 holes in the second stage. However, the applicant has proposed only a limited amount of coring, desiring to drill with plug bit, followed by radiometric probing of the holes.

It is suggested that all holes in Stage I be cored through the upper 70 feet of the Salt Wash member of the Morrison formation, and in addition, the full thickness of the Salt Wash be cored in two holes. All holes under Stage II will be non-core holes.

Conversations with representatives of the applicant have disclosed that the applicant desires the full amount of the loan to be under $33,333 ($25,000 Government participation). We have, therefore, reduced the number of holes under Stage I to permit a total estimate below $33,333. The estimated unit costs of non-core and core drilling, as presented in the engineering report, are based upon drilling 17 holes under Stage I and 8 holes under Stage II. If 20 holes were permitted under Stage I and 6 or 8 holes under Stage II, the estimated total amount would exceed $33,333.

Reviewed by
DMEA OPERATING COMMITTEE
4-11-55
(Date)

Four holes under Stage I are proposed as offset holes to hole RR-4, an ore hole drilled by the company. The remaining 13 holes (engineering report) are considered exploratory holes. It is conceivable that mineralization of possible ore grade will be found in at least two of the 13 exploratory holes under Stage I. The eight proposed offset holes under Stage II would then be adequate on the above basis.

Figure 2 of the engineering report illustrates the locations of the proposed 17 holes under Stage I. The locations and numbers are the same, with one exception, as those shown on figure 2 of Rebeck's report, transmitted to E. N. Marshman by memorandum from Williams dated February 11, 1955. Hole A-17 on Bede No. 5 claim has been omitted on figure 2 of the engineering report.

The examining personnel have discussed the proposed project area with representatives of the ANC, and information obtained has been used in appraisal of the loan request.

The examining engineer recommends that the applicant be granted a loan of $32,924 to conduct diamond drilling exploration in two stages. I concur in this recommendation.

Stephen R. Wilson

Stephen R. Wilson

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 13 1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. C. Robeck and W. E. Young

Uranium Prospectors Co., Ltd., of Grand Junction, Colorado, has applied for a loan under docket No. DMEA-3620, to explore uranium property in Emery County, Utah. The property known as the South Rowland group is held under lease from the owners. Proposed exploration consists of 11,890 feet of diamond drilling in two stages, with the drilling comprising 770 feet of cored hole and 11,120 feet of non-cored hole. The applicant's estimated total cost is $32,529.20.

Rocks in the area of the proposed project consist of the Brushy Basin and Salt Wash members of the Morrison formation and the Summerville formation, all Jurassic in age. The Salt Wash sandstone, consisting of lenticular sandstone and red and green mudstone, overlies the Summerville formation with a slight angular unconformity. The Summerville is composed of thin, regularly bedded, red-brown sandstone and siltstone. The Brushy Basin member is the only unit that outcrops on the applicant's property. The Salt Wash is exposed a short distance to the west of the exploratory area. The proposed drilling will penetrate the Summerville formation.

The applicant has drilled five diamond-drill holes on the property, disclosing uranium mineralization in the upper 70 feet of the Salt Wash member.

Reviewed by
DMEA OPERATING COMMITTEE
4-11-55

It is believed advisable that the applicant's drilling proposal be revised to require recovery of more core, as an alternate to the present plan of drilling with plug bit followed by radiometric logging of the holes. It is suggested that all holes drilled under Stage I be cored through the upper 70 feet of the Salt Wash member, and in addition, the full thickness of the Salt Wash be cored in two holes. All holes under Stage II will be non-core holes. Four holes of Stage I are to be offset holes for hole RR-4, an ore hole drilled by the company. Stage II holes will be offset holes for any mineralized holes of Stage I.

The examining engineer recommends that a total of 17 holes be drilled under Stage I and 8 holes under Stage II. Stage I will then consist of 92.5 hours of bulldozer work, 6,330 feet of non-core drilling, and 1,490 feet of core drilling. Stage II will consist of 3,620 feet of non-core drilling. Total estimated cost of the above proposal is $32,824. Unit cost for core drilling is estimated to be $4.46 per foot, and for non-core drilling, $2.48 per foot.

Holes drilled by the applicant indicate that the South Rowland claims lie in an area favorable for uranium mineralization. A two-stage diamond-drilling program consisting of core drilling in the upper 70 feet of the Salt Wash member of the Morrison formation under Stage I, followed by plug-bit drilling under Stage II in mineralized areas, appears to be warranted. It is recommended that the applicant be granted a loan of $32,824 to conduct the revised project.

URANIUM PROSPECTORS COMPANY, LTD.
EMERY COUNTY, UTAH
DMEA-3620
Uranium

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

Released by
DMEA OPERATIONS
4-11-55

URANIUM PROSPECTORS COMPANY, LTD.
EMERY COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Uranium Prospectors Co., Ltd., Emery County, Utah
Fig. 2 Claim and contour map
Fig. 3 Geologic section

SUMMARY

Uranium Prospectors Co., Ltd., Grand Junction, Colorado, has requested a DMEA loan to explore uranium property in Emery County, Utah. The property, known as the South Rowland group, is held under lease by the applicant. Uranium mineralization has been encountered by diamond drilling in the Salt Wash member of the Morrison formation in certain areas on the applicant's property.

Originally the applicant requested a loan of $32,529.20 to drill 26 additional diamond drill holes in two stages. The proposed drilling totals 11,890 feet, and consists of 770 feet of cored hole and 11,120 feet of non-cored hole. It appears proper that the proposed project be revised to include 1,490 feet of core drilling and 9,950 feet of non-core drilling in 25 holes, a total of 11,440 feet of drilling. All coring will be done under Stage I. The estimated cost of the revised program is $32,824.

The revised project proposal is believed to be sound and chances of finding uranium ores of economic importance are considered good. It is recommended that a loan of $32,824 be granted.

INTRODUCTION

Property of the Uranium Prospectors Co., Ltd., was examined January 20, 1955, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examination was made at the request of the Regional

Field Team to determine the advisability of granting a Government assistance loan. The property upon which the work is to be done is known as the South Rowland group. Quentin E. Conklin and Thomas J. Ballard, staff engineers for Uranium Prospectors Co., Ltd., accompanied the examining personnel to the proposed project area.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property lies in sections 15 and 22, T. 21 S., R. 14 E., S.L.B. and M. (fig. 1). The area is reached by traveling west from Green River, Utah, on U. S. Highway 50 9-1/2 miles, and thence south on an unimproved dirt road 7-1/2 miles to the property. A uranium-buying station is located at Thompsons, Utah, 35 miles east of the property. Price, Utah, is about 50 miles northwest of the property.

The topography in the vicinity of the claims is comprised of low, rolling hills and broad, flat benches.

HISTORY AND PRODUCTION

No production has been recorded from the property. Five holes have been drilled by the applicant, three of which encountered uranium mineralization.

The Four Corners Uranium property, southwest of the South Rowland group, is at present producing approximately 200 tons of uranium ores per week. Radioactive ores were first mined from this property approximately 50 years ago.

OWNERSHIP AND EXTENT

The property involved in the application consists of the following unpatented mining claims: Dede Nos. 1 to 8 inclusive, Pee Wee Nos. 1 to 3 inclusive, Simon J. No. 1, and Simon J. No. 2. Parts of some of the claims are in conflict, and prior ownership has not been established. Excluded areas are shown by dashed lines on figure 2.

The property is held by Uranium Prospectors Co., Ltd., under lease agreement with David A. Rowland of Denver, Colorado, and Andrew G. McDermott of Green River, Utah. A copy of the lease has been supplied.

DESCRIPTION OF THE DEPOSITS

The property included in the application is situated at the northeast edge of the San Rafael Swell, an elongated dome lying in Emery and northern Wayne Counties, Utah. Important uranium deposits occur in the Triassic Shinarump and Morrison formations in the area of the Swell. Erosion has removed most of the Morrison and Shinarump from the interior area, but consistent production has been maintained from deposits occurring in outcropping edges of the two above-named formations surrounding the Swell.

The Morrison formation outcrops in the area of the Rowland group. Known uranium deposits in the area occur in the upper 70 feet of the Salt Wash member of this formation. The Salt Wash member is approximately 220 feet thick and is overlain by the Brushy Basin member, approximately 450 feet thick. Formational dips are approximately 6 degrees to the

east. The Salt Wash member does not outcrop on the South Rowland group, but is exposed at the surface a short distance to the west. Five holes have been drilled on the property through the overlying Brushy Basin into the Salt Wash member. One hole encountered 7 feet of ore determined radiometrically to contain 0.28 percent U_3O_8, at 70 feet below the top of the Salt Wash member. One hole intersected a zone of mineralization slightly below ore grade, and another encountered slight mineralization. Two holes were barren. Ores are being mined from the Salt Wash member on adjacent properties. Favorable results are reported from drilling now in progress south and west of the applicant's claims.

PROJECT PROPOSALS

The applicant has proposed a program consisting of bulldozer work and diamond drilling to explore the Salt Wash member of the Morrison formation. The applicant's exploration project consists of drilling 26 holes in two stages, totaling 11,890 feet of drilling. It is proposed that 770 feet of hole be cored and 11,120 feet be drilled by plug bit. It is planned that the holes will be probed by the applicant's radiometric equipment.

It appears advisable to revise the applicant's drilling proposals to permit more cored sections through the upper, mineralized portion of the Salt Wash member. Accordingly, it is suggested that the project be divided into two stages, with Stage I consisting of 17 diamond drill

holes and Stage II, 8 diamond drill holes. All holes of Stage I are to be cored through the upper 70 feet of the Salt Wash member. In addition, the full thickness of the Salt Wash member will be cored in two holes. All holes of Stage II will be drilled by use of plug bits.

Four holes of Stage I are to be drilled as offset holes to hole RR-4, an ore hole drilled by the company. The eight holes of Stage II are to be drilled as offset holes to any successful holes of Stage I. Offset holes are to be drilled on 100-foot centers. Proposed locations of the 17 holes under Stage I are shown on figure 2.

A plan map submitted with the brochure shows the locations of the 20 holes proposed by the applicant under Stage I. The holes are numbered from A-1 through A-20. Figure 2 of this report was taken from the applicant's plan map. Three holes have been eliminated and the numbers changed. Hole numbers deleted are A-16, A-17, and A-18.

Holes A-1 and A-15 as shown on figure 2 will be cored through the total thickness of the Salt Wash member, which is estimated to be 220 feet thick. This drilling will provide geologic information in addition to testing the lower part of the Salt Wash member.

The estimated time necessary to complete the project is 4 months, using three contract drill rigs. Work will be started within 30 days after the effective date of the contract.

The applicant stated that his present contract with a drilling company provides reimbursement for the drilling only after a hole can

be probed to the applicant's satisfaction. This same agreement will apply in all drilling under a DMEA contract.

The minimum size of the diamond drill holes will be AX, to permit proper probing.

PROJECT COSTS

Independent Contracts

Bulldozer Rental

15,000 feet of access road to drill sites, 75 hours at $13 per hour	$ 975.00
Construction of drill sites, 12.5 hours at $13 per hour	162.50
Construction of drilling water reservoirs 5 hours at $13 per hour	65.00
Total bulldozer hours, 92.5 at $13 per hour	$ 1,202.50

Diamond Drilling

Stage I - 17 holes, average depth, 460 feet

Non-core,	6,330 feet at $1.75 per foot	$11,077.50
Core,	1,490 feet at $3.50 per foot	5,215.00
Total	7,820 feet	$16,292.50

Stage II - 8 holes, average depth, 452.5 feet

Non-core,	3,620 feet at $1.75 per foot	$ 6,335.00
Core,	None	
Total	3,620 feet	$ 6,335.00

Total drilling, 25 holes, 11,440 feet	$22,627.50
Total independent contracts	$23,830.00

Labor and Supervision

1 engineer at $800 per month - 4 months	$ 3,200.00
1 geologist at $600 per month - 4 months	2,400.00
1 sampler at $288 per month - 4 months	1,152.00
1 accountant - 2 man-days per month at $20 per day	160.00
Total	$ 6,912.00

Materials and Supplies

140 wooden core boxes at $2.50	$ 350.00
50 cloth sample bags at $ .40	20.00
200 survey stakes	10.00
800-gal. gasoline (2 vehicles), 4 months	240.00
Utility gasoline	12.50
Camp groceries (3 men, 4 months), $50 per month	600.00
Total	$ 1,232.50

Operating Equipment

To be furnished by applicant exclusive of depreciation. Actual operating costs (gasoline $240 and estimated repairs and maintenance $200) only to be charged as cost of project.

1 Dodge 1/4-ton pickup - value $1,747.50
1 Willys station wagon - value $2,458.66

Sampling and Analyses

50 samples at $6.00	$ 300.00

Miscellaneous

Repairs and equipment maintenance Est. $25 per month per vehicle (2 vehicles, 4 months)	$ 200.00
Payroll taxes - est.	135.00
Liability insurance - est.	80.00
Compensation - est.	112.20
Total	$ 527.20

Recapitulation of Costs

Independent contracts	$ 23,830.00
Labor and supervision	6,912.00
Materials and supplies	1,232.50
Sampling and analyses	300.00
Miscellaneous	527.20
Total	$32,801.70

Cost estimates as submitted by the applicant are considered reasonable and acceptable, with the exception of the item, "camp groceries." This item was submitted at $1,100 for 3 men for 4 months. It has been reduced to $600, $50 per month per man. The estimated amount for core boxes has been increased from $50 to $350 as a result of the recommended increase in the total coring under proposed Stage I.

The unit cost for sampling and analyses includes determinations for U_3O_8 and $CaCO_3$.

The above estimated costs may be prorated and combined in the following manner to permit preparation of unit costs for a short-form contract:

Bulldozer operation -

92.5 hours at $13 per hour ---------- $ 1,202.50

Diamond drilling -

Non-core - 9,950 feet at $2.4774 per foot---------- 24,650.13

Independent contract	$1.7500
Labor and supervision	0.6042
Materials and supplies	0.0771
Miscellaneous	0.0461
	$2.4774

Core - 1,490 feet at $4.4623 per foot ---------- $6,648.83

Independent contract ------	$3.5000
Labor and supervision -----	0.6042
Materials and supplies ----	0.3120
Miscellaneous ----------	0.0461
	$4.4623

Assaying -

50 samples at $6---------- 300.00

Total ----------$32,801.46

It is suggested that a unit cost of $2.48 per foot of non-core drilling and $4.46 per foot of core drilling be used in a contract, if drawn. The total estimated cost of the work on this basis is then $32,824.

The following is a suggested breakdown of the proposed exploration in Stages I and II:

Stage I -

Bulldozer operation

92.5 hours at $13 per hour ---------- $ 1,202.50

Diamond drilling

Non-core - 6,330 feet at $2.48 per foot ------- 15,698.40
Core - 1,490 feet at $4.46 per foot ------- 6,645.40

Sampling and analyses - 50 samples at $6 ---------- 300.00

Total ---------- $23,846.40

Stage II -

Diamond drilling

Non-core - 3,620 feet at $2.48 per foot ------- $ 8,977.60
Core - None

Total ---------- $ 8,977.60

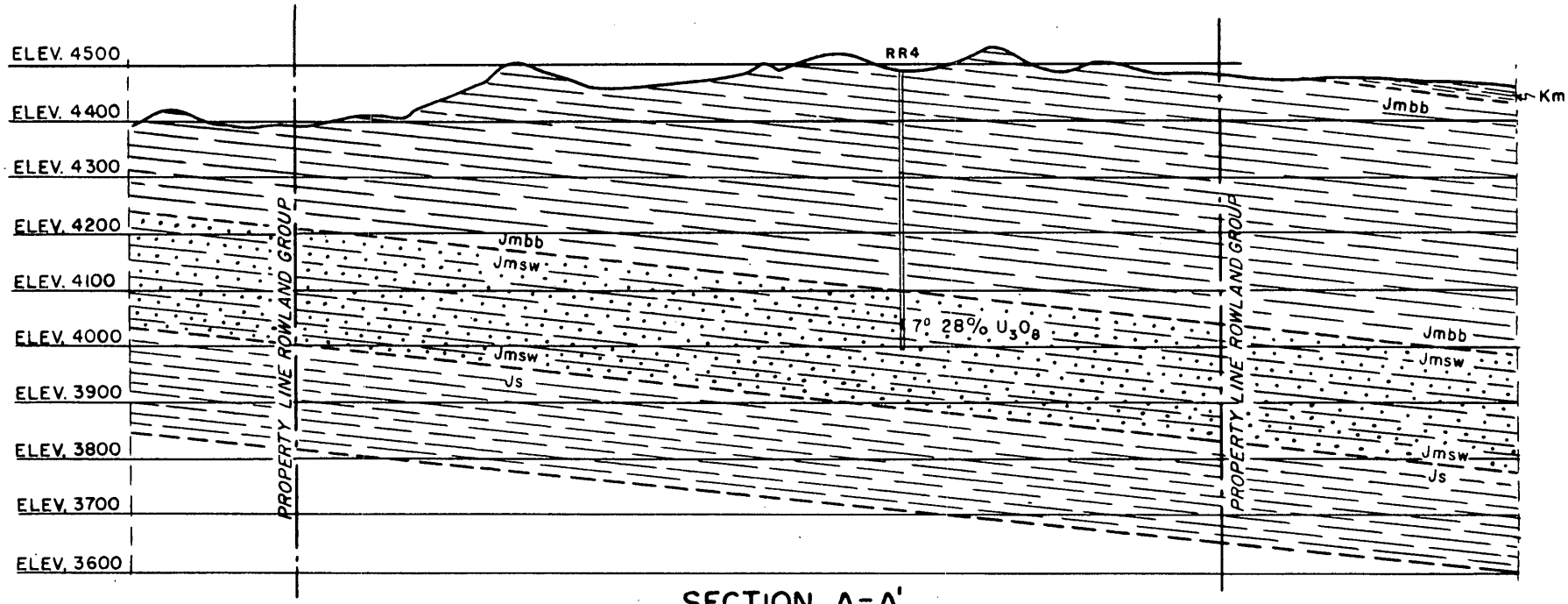
It is believed that the cost of bulldozer work should be assigned to Stage I. Offset holes which may be drilled under Stage II will probably be in areas made accessible as a result of road building to drill sites under Stage I.

CONCLUSIONS AND RECOMMENDATIONS

Uranium mineralization has been found in diamond drill holes in the Salt Wash member of the Morrison formation on the South Rowland group of claims, Emery County, Utah. The applicant, Uranium Prospectors Co., Ltd., has requested DMEA funds to conduct additional diamond drilling in areas offset from present known mineralization. The applicant's proposals consist of bulldozer work, and 11,890 feet of diamond drilling in 26 holes, estimated to cost $32,529.20. The applicant's proposals include only a limited amount of core drilling.

It is believed that the chances for discovery of commercially significant ore bodies on the applicant's property are promising. However, it is recommended that the applicant's proposals be revised to include only 25 diamond drill holes, with 17 holes under Stage I and 8 holes under Stage II. The upper mineralized horizon of the Salt Wash member of the Morrison formation should be cored in all Stage I holes and in addition, two holes of Stage I should be cored through the full thickness of the Salt Wash member to the underlying Summerville formation. Plug bit drilling of Stage II holes should prove satisfactory.

Recommendation is made that a loan of $32,824 be granted to the applicant to conduct exploration as outlined in the engineering report.



SECTION A-A'

LOOKING NORTH

LEGEND

- Km — MANCOS SHALE
- Jmbb — BRUSHY BASIN MEMBER OF MORRISON FM.
- Jmsw — SALT WASH MEMBER OF MORRISON FM.
- Js — SUMMERVILLE FORMATION

NOTE

DATA TRACED FROM COMPANY CLAIM MAP.

0 300 600

SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR

BUREAU OF MINES

Fig. 3 DMEA Docket No. 3620

Geologic Section A-A'

N. E. SIDE SAN RAFAEL REEF

GREEN RIVER DESERT

URANIUM PROSPECTORS CO., LTD.

EMERY COUNTY, UTAH

ENGINEER: *W. E. Young*	DATE: FEB. 1, 1955
TRACED: FEB., 1955; A.P.T.S.	1900 - 313 - E
CHECKED:	

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 6 1955 / DMEA
Date Rec'd.
MAR 4 1955
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration

March 3, 1955

TRANSMITTED
APR 4 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3620 (uranium), Uranium Prospectors Company, Ltd., Dede, Pee Wee, and Simon J. claims, Emery County, Utah

Enclosed are 10 copies of a geologic report by R. C. Robeck, U. S. Geological Survey, on the above subject property.

Ore grade material is reported by the applicant to have been found on the Dede No. 8 claim in Hole NR-4 where probing by the A. E. C. indicated a content of 0.28 percent U_3O_8 over a thickness of 7 feet. Ore from the claims immediately west of the subject property is being produced at a rate of 550 tons per month. It contains about 0.37 percent U_3O_8.

Robeck recommends that Holes A-1 and A-15 be drilled through the Salt Wash to the top of the underlying Summerville formation. These holes will furnish stratigraphic and structural control for the entire drilling program and are to be cored from the top of the Salt Wash to the bottom of the hole. The remaining 18 first-stage holes are to be drilled to the base of the known ore horizon in the upper 70 feet of the Salt Wash. With the exception of Hole A-17 drilling with a plug bit is recommended by Robeck.

The recommended program appears justified by the ore potential of the ground to be explored. However, I suggest that consideration be given to coring the ore horizon, the upper 70 feet of the Salt Wash, in <u>each</u> of the first-stage holes rather than in only three holes as proposed in Robeck's report. The value of the data to be obtained from core taken in the ore horizon should outweigh the relatively minor additional cost of obtaining that core. Offset drilling with a plug bit and radiometric logging appears satisfactory for second-stage exploration.

Reviewed by
DMEA OPERATING COMMITTEE
4-11-55
(date)

The Survey copy of the brochure is returned herewith.

Nine extra copies of the two figures in the geologic report are enclosed also.

E. N. Hinckman

E. N. Hinckman
Member, Field Team

Enclosures (29)

MINERAL DEPOSITS
DMEA
RECEIVED
MAR 1 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

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

February 11, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 6 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 3620, Uranium Prospectors Co., Ltd., Dede Nos. 1-8, Pee Wee Nos. 1-3, and Simon J. Nos. 1 and 2 claims, Green River Mining District, Emery County, Utah

Transmitted herewith are 11 copies of a geologic report by R. C. Robeck, covering a field examination of the above-referenced property.

Uranium ore is present, being produced from properties adjacent to the subject property, and mineralized and ore-grade material has been previously discovered on the property in drill holes. Consideration of these factors, as well as the fact that the property is located in a trend favorable for uranium deposits, leads Robeck to recommend that a DMEA contract be approved to provide for exploration on the property. Robeck recommends that the proposed exploration be performed in two stages of core and non-core drilling. I concur with Robeck's recommendations, but would like to further recommend that the ore zone be cored in all holes.

We are enclosing 9 extra copies of the maps accompanying Robeck's report. We are returning herewith the brochure covering this application.

Reviewed by
DMEA OPERATIONS COMMITTEE
4-11-55
(date)

W. P. Williams
W. P. Williams
Geologist

WPW/mlr

UNITED STATES DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1955

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

DMEA 3620, Uranium Prospectors Co., Ltd., Dede Nos. 1-8, Pee Wee Nos. 1-3, and Simon J. Nos.1, 2 claims, Green River Mining District, Emery County, Utah

Uranium

Geologic Report

by
R. C. Robeck
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
4-11-55
(0230)

DMEA 3620

Uranium Prospectors Co., Ltd., through its vice-president, D. C. Deringer, 718 North Fifth Street, Grand Junction, Colorado, made application on December 16, 1954, to the Defense Minerals Exploration Administration for $32,529.20 (Government share $24,396.90) to explore the Dede, Pee Wee, and Simon J. groups of claims, Emery County, Utah, (fig. 1) for uranium.

The property was examined by the writer on January 19, 1954, in company with D. C. Deringer, T. J. Ballard, Q. E. Conklin, and J. Spann as company representatives; W. E. Young, U. S. Bureau of Mines representative, and H. B. Dyer, U. S. Geological Survey representatives.

As the claims are in a belt which appears favorable for ore deposits, it is recommended that the loan be approved and a DMEA contract be prepared to provide for the exploration work.

The claims, the Dede Nos. 1-8, the Pee Wee Nos. 1-3, and the Simon J. Nos. 1 and 2 (also referred to as the "south Rowland group of claims") are in the northwest part of the Green River desert in secs. 15 and 22, T. 21 S., R. 14 E., SLM, 11 airline miles west of Green River, Utah. The claims are easily reached by 8 miles of unimproved road which joins Highway 6-50, 8.6 miles west of Green River. Flash floods may make the area inaccessible for a few hours at a time.

The applicants appear to be competent enough to carry out their proposals.

Uranium Prospectors Company, Ltd., are leasing the claims from D. A. Rowland.

GEOLOGY

The Dede, Pee Wee, and Simon J. claims are located in a shallow syncline along the east flank of the San Rafael Swell. The stratigraphic section (after Baker, 1946) is as follows.

Formation	Age	Thickness
Morrison		
Brushy Basin shale	Jurassic	440
Salt Wash sandstone	Jurassic	220
Summerville	Jurassic	150

The Brushy Basin shale is the only unit exposed in the area of these claims. But since the drill will penetrate the other units, a brief description of them is included. The Summerville formation consists of thin, regularly-bedded red-brown sandstone and siltstone with some gypsum. The Salt Wash sandstone overlies the Summerville with a slight angular unconformity. The Salt Wash consists of alternating layers of lenticular sandstone and red and green mudstone. The upper unit (about 70 feet thick) consists mostly of sandstone and it contains the uranium and vanadium minerals. The overlying Brushy Basin shale consists of banded variegated mudstones with a few interbedded lenses of sandstone and conglomerate. The rocks in the area dip 5° to 6° E.

Uranium-vanadium minerals have been known to occur in this general area since about 1900; however, production before 1954 was insignificant.

The present rate of production, on adjacent claims to the west by the Four Corners Uranium Company, is about 550 tons of ore per month, averaging 0.37 percent uranium and 0.66 percent vanadium. Surface exposures show only the carnotite-type ore whereas deeper ore bodies consist of black unoxidized ore - probably uraninite. The ore is found in small pod-like bodies, which may each contain from 10 to 2,000 tons, separated by areas of barren or slightly mineralized rock.

The general area around the claims is being drilled at present, and ore has been found on and all around the claims; so indications are that the claims are in a favorable belt. Reserves are not known, but by geologic reasoning it seems that the amended drilling program would prove up enough ore to justify that program.

PROPOSED EXPLORATION

The applicant states there is plenty of manpower and materials available at the prices stated in the application. The applicant proposed the following.

Sub-contracting:	
Bulldozer work	$1,202.50
Drilling, 26 holes, 11,890 feet	22,155.00
Direct company expense	9,171.70
Total	$32,529.20

The applicant proposed a first stage consisting of 20 holes and including 420 feet of coring in the ore zone. A second stage would consist of 6 holes, with 350 feet of coring, offset around favorable ore holes of the first stage.

With the approval of all concerned, the following amended program is proposed: The finances would be the same, but the locations of drill holes are changed as shown in figure 2. The first stage would consist of 18 holes and the second stage of 8 holes. This would decrease the non-core footage of the first stage to 7,650 feet and increase the second stage to 3,270 feet. The main purpose for the changes was to more thoroughly test a smaller area. These changes consist of: Eliminating applicant's holes A-16 and A-18 and putting them into the second stage. Hole A-19 would be changed from claim Dede No. 3 to Dede No. 6; hole No. A-17 would be changed from Simon J 2 to Dede 5. Minor other shifts would be made to make sure that all holes are drilled at least 100 feet from the west or east boundaries of the claims. A-1 will be drilled into the Summerville and cored from the top of the ore zone to the bottom as proposed by the applicant. Instead of coring A-13 into the Summerville formation, the amended program proposes that A-15 be drilled to the Summerville to give better stratigraphic and structural control for all the claims. It is also proposed that A-17 be cored through the ore zone to give better control on lithology and to give samples for chemical analyses.

The second stage - 8 holes - will be drilled as planned around favorable holes of the first stage, if the first-stage holes cut favorable or mineralized ground. The second stage is to be started only after a written recommendation by the examining geologist. At least one of these second-stage holes should be cored through the ore zone in the immediate vicinity of the present ore hole RR-4. The rest of the coring footage will be used at the discretion of the applicant in possible ore-bearing areas where he thinks he can gain the most information.

The applicant does not propose to core the ore zone in all holes because past drilling indicates that plug bit drilling and probing with a counter have given satisfactory results. Enough holes have been and will be cored so that they can have enough chemical assay control to draw a graph comparing the figures from chemical assays and radiometric readings. The applicant states that his subcontract contains a clause which states that a hole is not paid for until the open hole can be probed to the applicant's satisfaction.

CONCLUSIONS AND RECOMMENDATIONS

Holes drilled by the applicant show that the Dede, Pee Wee, and Simon J. claims are in what appears to be a favorable ore belt. From a geological point of view the modified proposal appears to offer a good chance of finding enough ore to justify the amount of the loan.

It is recommended that a DMEA contract be prepared to provide for the exploration project as outlined above.

This application has been brought to the attention of the U. S. Atomic Energy Commission, and they have assisted in the evaluation of the property.

LITERATURE CITED

Baker, A. A., 1946. Geology of the Green River Desert-Cataract Canyon Region, Emery, Wayne, and Garfield Counties, Utah. U. S. Geol. Survey Bull. 951.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3620

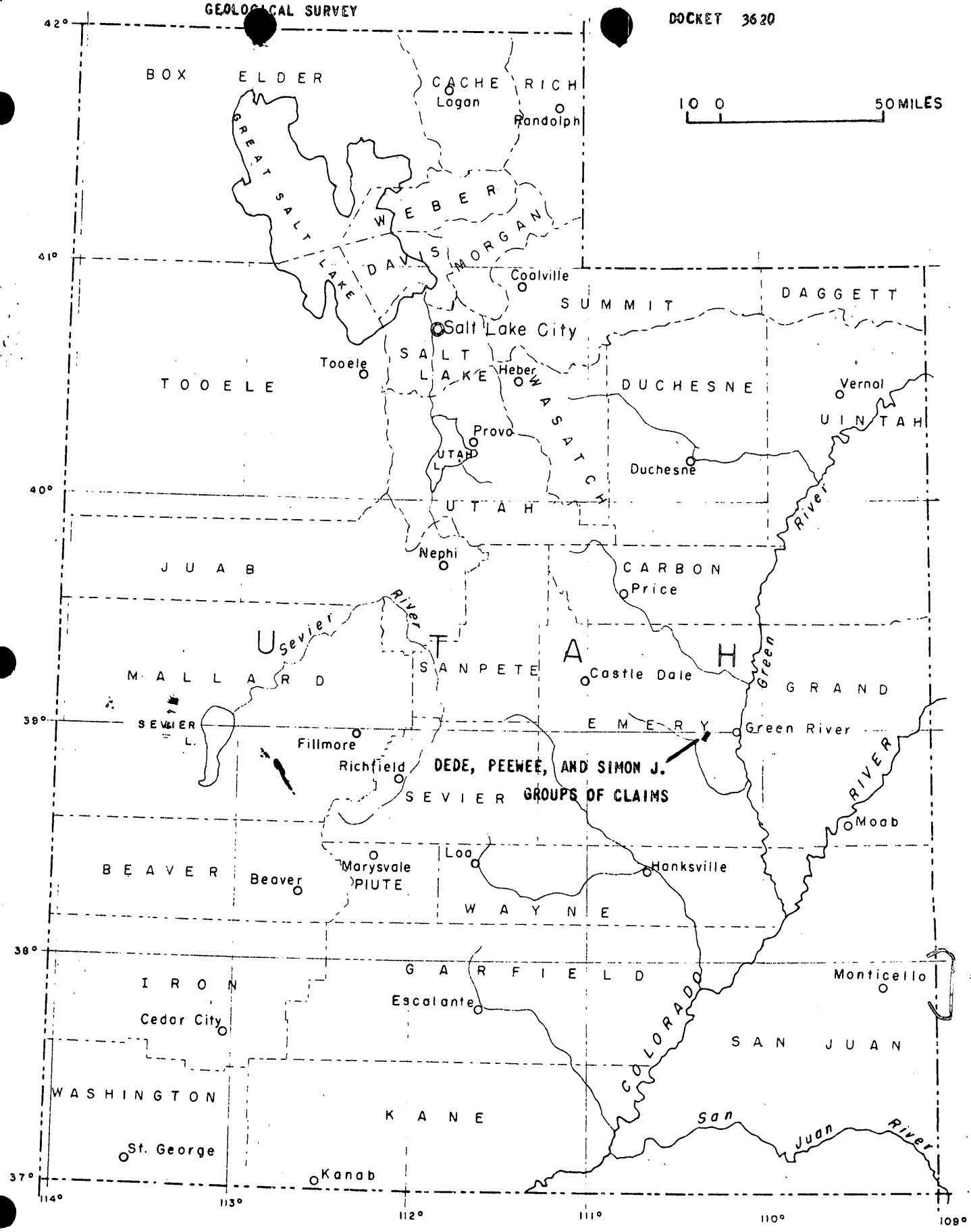


Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF DEDE, PEEWEE, AND SIMON J. GROUPS OF CLAIMS, URANIUM PROSPECTORS CO. LTD. EMERY COUNTY, UTAH.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3620

EXPLANATION

Jmsw / Jmbb — FORMATION CONTACT BETWEEN MORRISON SALTWASH AND BRUSHY BASIN

6° — STRIKE AND DIP OF BEDS

ADIT

DRILL HOLES, (ATOMIC ENERGY COMMISION HOLES HAVE PREFIX X, PRIVATE COMPANY HOLES HAVE PREFIX RR)

○ BARREN

MINERALIZED

● ORE-BEARING, 1 FOOT OR MORE OF 0.10% U_3O_8 OR BETTER

X LOCATION OF PROPOSED DRILL HOLE

NOTE: GEOLOGY, CLAIM BOUNDARIES, LAND SECTION CORNER, AND DRILL HOLE LOCATIONS FROM OWNERS MAP

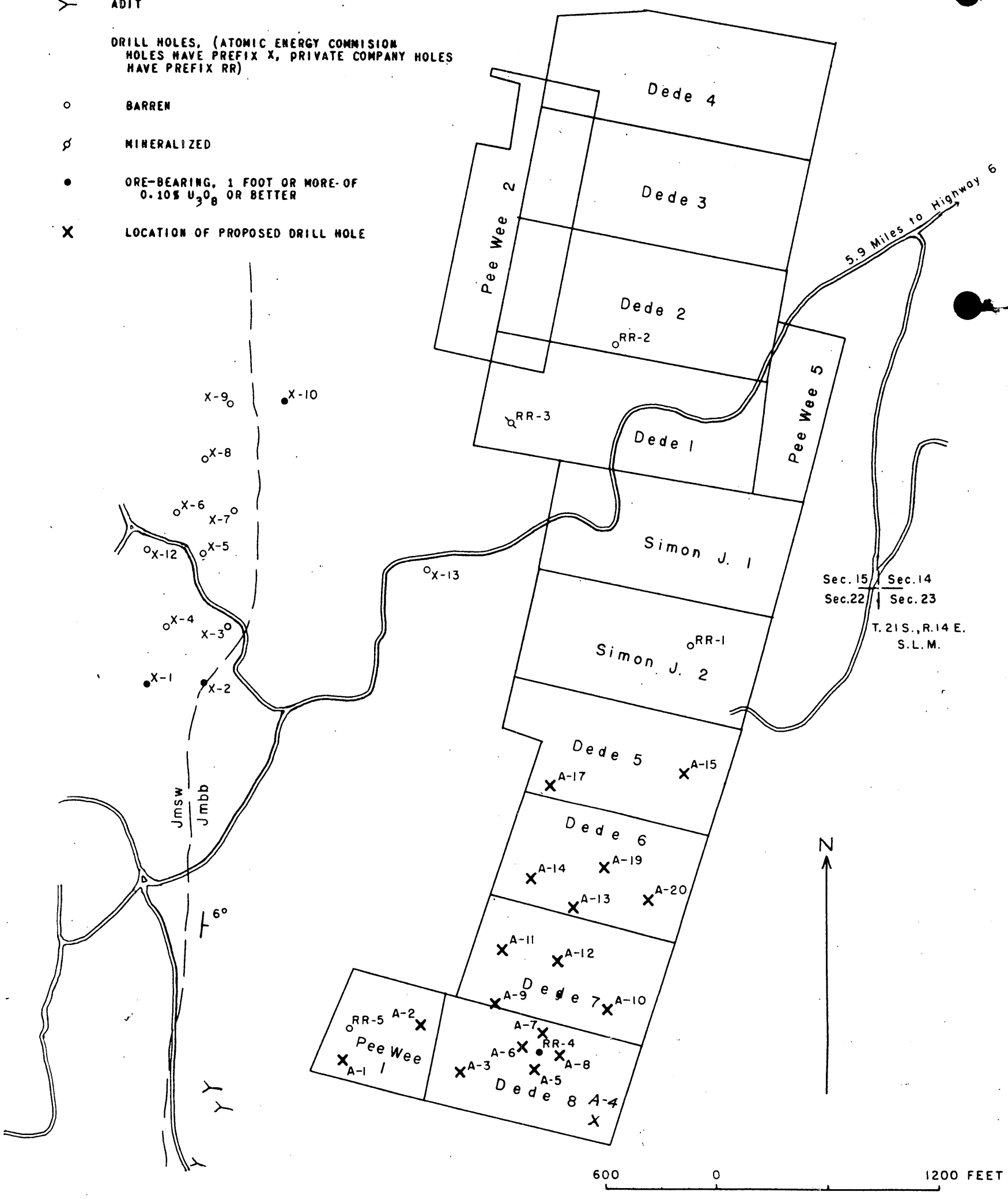
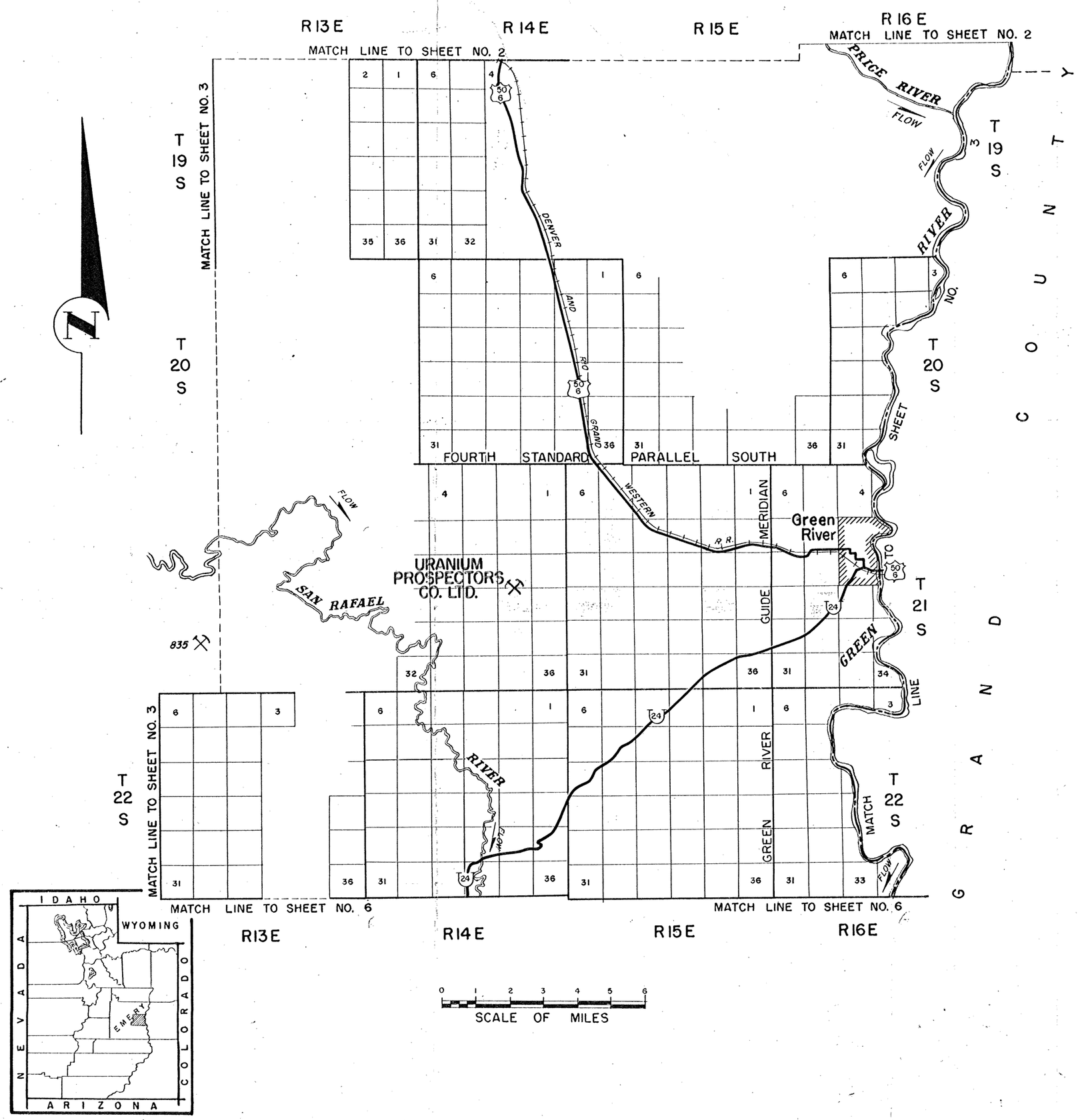


Figure 2. MAP SHOWING LOCATION OF DRILL HOLES ON OR NEAR DEDE, PEE WEE AND SIMON J GROUPS OF CLAIMS AND PROPOSED DRILL HOLES, URANIUM PROSPECTORS, COMPANY LTD.
EMERY COUNTY, UTAH



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. I

DMEA Docket No. 3620

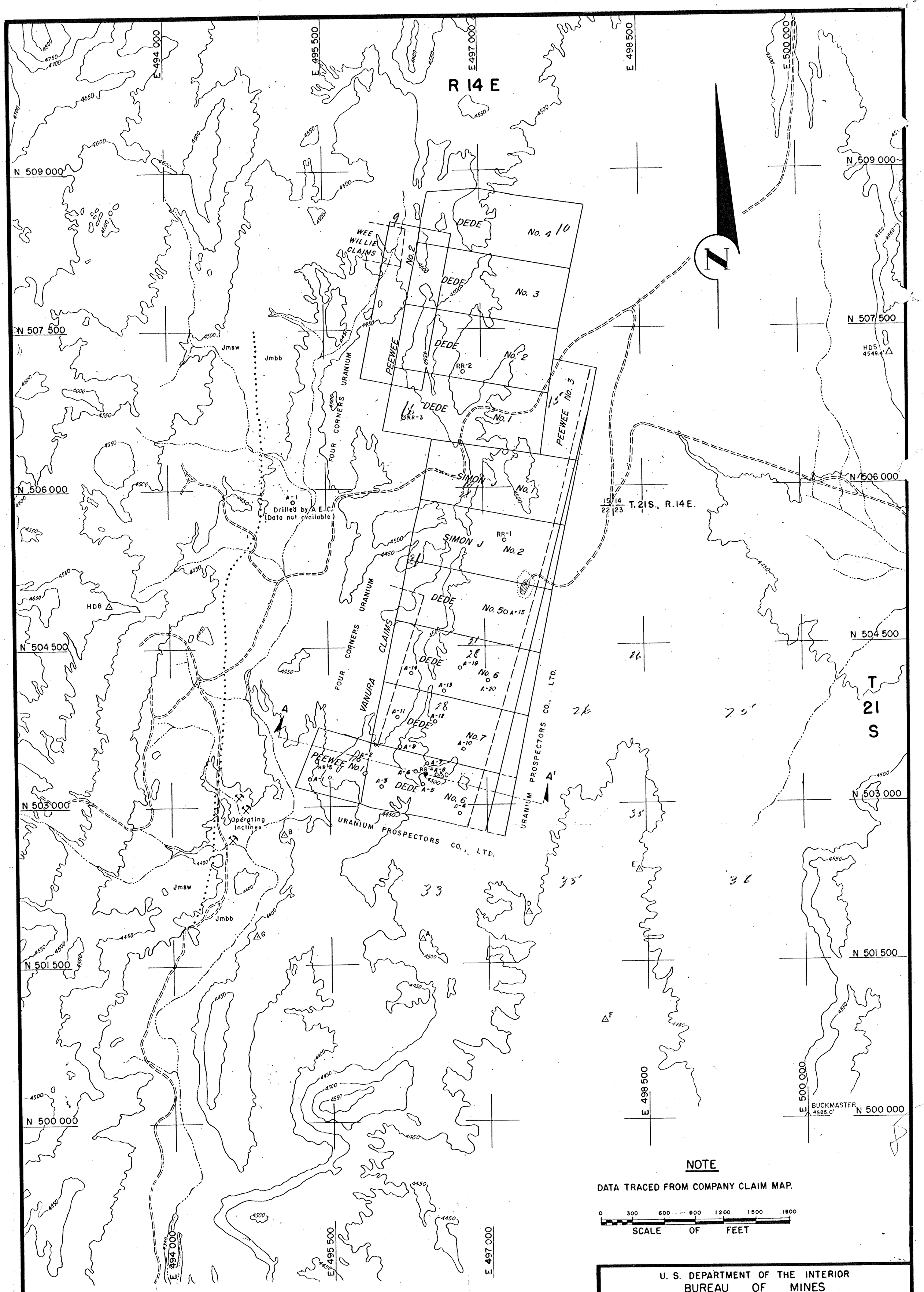
STATE: UTAH

COUNTY: EMERY

Sheet 4 of 6

Location Map

ENGINEER: *W. E. Young*	DATE: JAN. 26, 1955
TRACED: JAN., 1955; BY: A.P.T.S.	1900 - 311 - C
CHECKED:	



NOTE

DATA TRACED FROM COMPANY CLAIM MAP.

0 300 600 900 1200 1500 1800
SCALE OF FEET

LEGEND

Jmbb	BRUSHY BASIN MEMBER MORRISON FM
Jmsw	SALT WASH MEMBER MORRISON FM.
●	ORE HOLE, AT LEAST 1 FT. OF 20% U_3O_8 OR THE EQUIVALENT IN FEET - PERCENT.
⊘	MINERALIZED HOLE, LESS THAN FOREGOING.
o	BARREN HOLE.
RR-1 o	EXISTING DRILL HOLE.
A-1 o	PROPOSED DRILL HOLE.
– – – –	AREA LOST BY CONFLICT.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2 DMEA Docket No. 3620

Claim and Contour Map
SAN RAFAEL REEF AREA
GREEN RIVER DESERT

URANIUM PROSPECTORS CO., LTD.
EMERY COUNTY, UTAH

ENGINEER: *W. E. Young*	DATE: JAN. 28, 1955
TRACED: JAN., 1955; BY: A. P. T. S.	1900 - 312 - D
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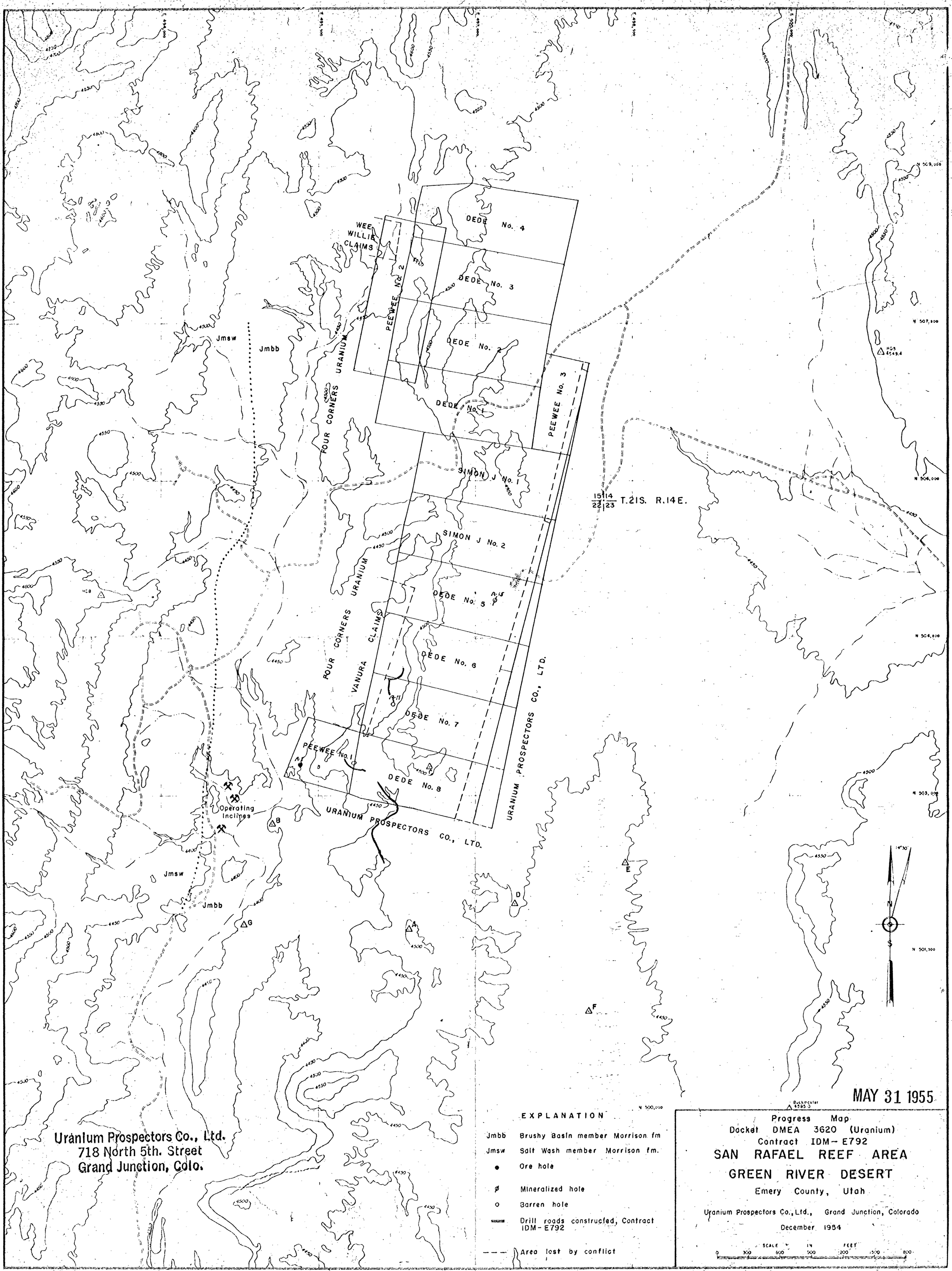
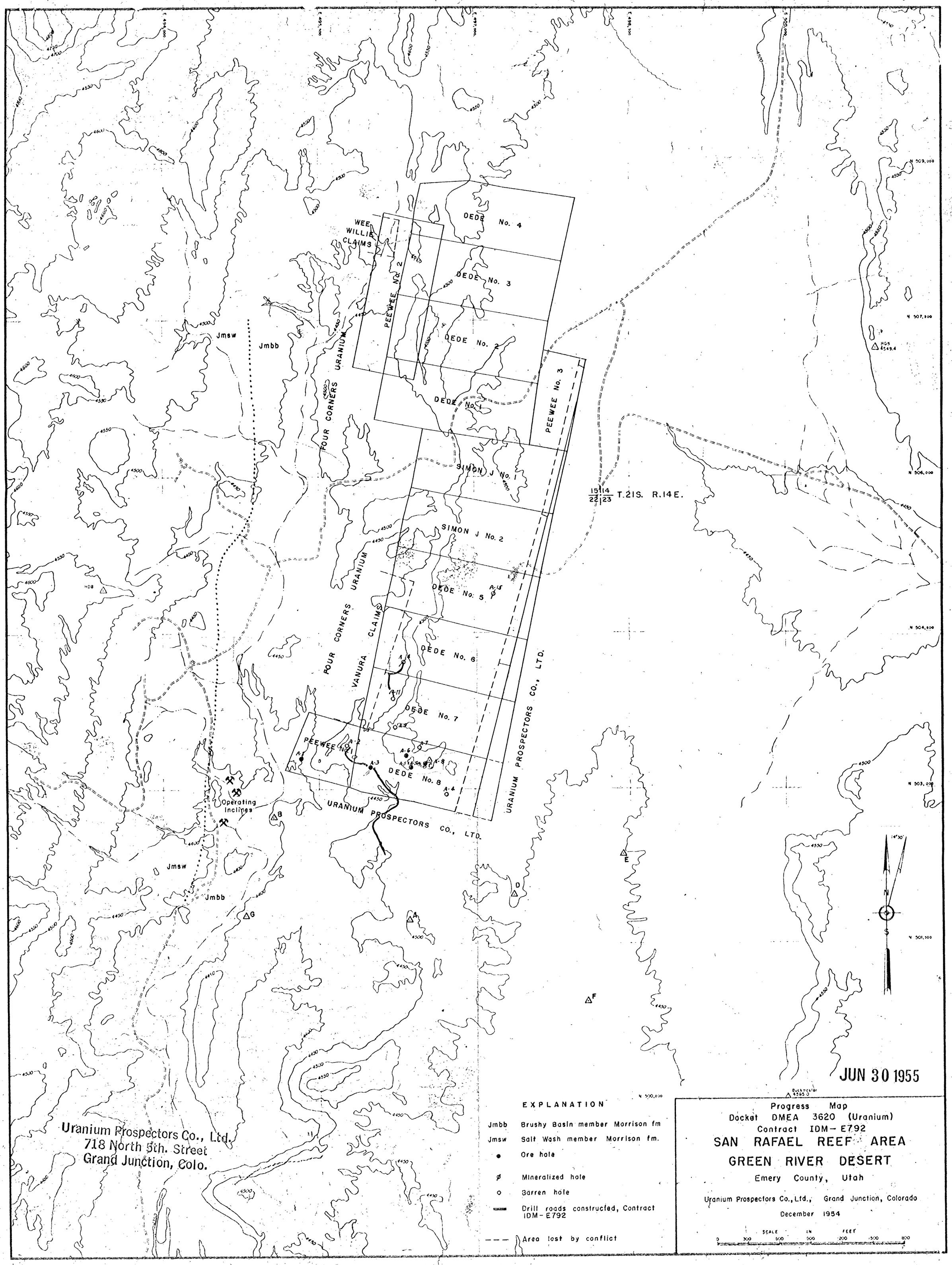
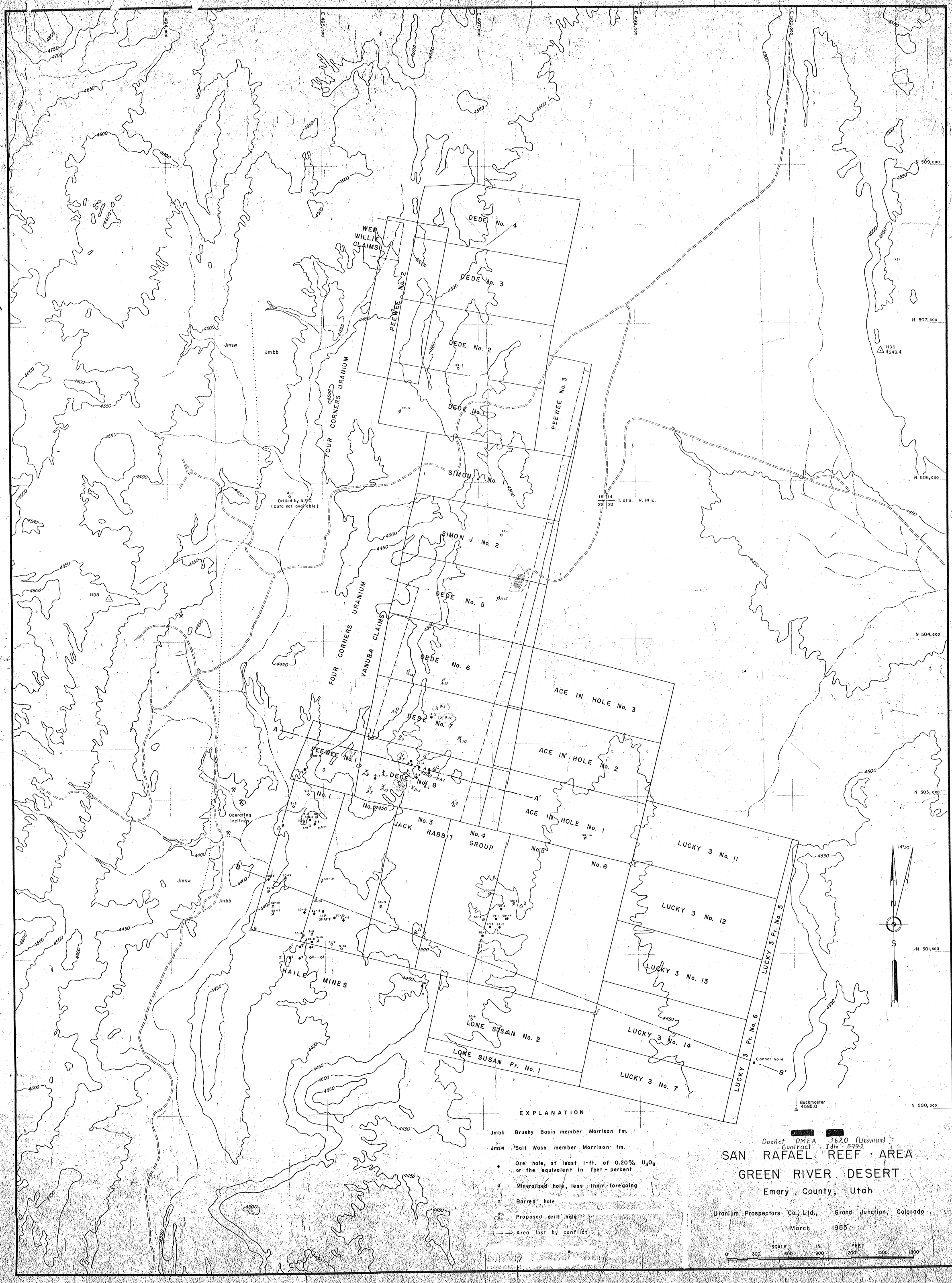

WEE WILLIE CLAIMS
PEEWEE No. 2
DEDE No. 4
DEDE No. 3
DEDE No. 2
DEDE No. 1
PEEWEE No. 3
FOUR CORNERS URANIUM
SIMON J No. 1
SIMON J No. 2
DEDE No. 5
VANURA CLAIMS
DEDE No. 6
DEDE No. 7
PEEWEE No. 1
DEDE No. 8
URANIUM PROSPECTORS CO., LTD.
15 14 / 22 23 T.21S. R.14E.
Jmsw
Jmbb
Operating Inclines
Uranium Prospectors Co., Ltd.
718 North 5th. Street
Grand Junction, Colo.
EXPLANATION
Jmbb Brushy Basin member Morrison fm
Jmsw Salt Wash member Morrison fm.
Ore hole
Mineralized hole
Barren hole
Drill roads constructed, Contract IDM-E792
Area lost by conflict
MAY 31 1955
Progress Map
Docket DMEA 3620 (Uranium)
Contract IDM-E792
SAN RAFAEL REEF AREA
GREEN RIVER DESERT
Emery County, Utah
Uranium Prospectors Co., Ltd., Grand Junction, Colorado
December 1954
SCALE IN FEET


WEE WILLIE CLAIMS
DEDE No. 4
DEDE No. 3
DEDE No. 2
DEDE No. 1
PEEWEE No. 2
PEEWEE No. 3
PEEWEE No. 1
SIMON J No. 1
SIMON J No. 2
DEDE No. 5
DEDE No. 6
DEDE No. 7
DEDE No. 8
FOUR CORNERS URANIUM CLAIMS
VANURA
URANIUM PROSPECTORS CO., LTD.
15 14 / 22 23 T.21S. R.14E.
Jmsw
Jmbb
Operating Inclines
JUN 30 1955
Uranium Prospectors Co., Ltd.
718 North 5th. Street
Grand Junction, Colo.
EXPLANATION
Jmbb Brushy Basin member Morrison fm
Jmsw Salt Wash member Morrison fm.
Ore hole
Mineralized hole
Barren hole
Drill roads constructed, Contract IDM-E792
Area lost by conflict
Progress Map
Docket DMEA 3620 (Uranium)
Contract IDM-E792
SAN RAFAEL REEF AREA
GREEN RIVER DESERT
Emery County, Utah
Uranium Prospectors Co., Ltd., Grand Junction, Colorado
December 1954
SCALE IN FEET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WEE WILLIE CLAIMS
DEDE No. 4
DEDE No. 3
DEDE No. 2
DEDE No. 1
PEEWEE No. 2
PEEWEE No. 3
PEEWEE No. 1
FOUR CORNERS URANIUM
SIMON J No. 1
SIMON J No. 2
DEDE No. 5
DEDE No. 6
DEDE No. 7
DEDE No. 8
VANURA CLAIMS
ACE IN HOLE No. 3
ACE IN HOLE No. 2
ACE IN HOLE No. 1
JACK RABBIT GROUP
No. 1
No. 2
No. 3
No. 4
No. 5
No. 6
LUCKY 3 No. 11
LUCKY 3 No. 12
LUCKY 3 No. 13
LUCKY 3 No. 14
LUCKY 3 No. 7
LUCKY 3 Fr. No. 5
LUCKY 3 Fr. No. 6
LONE SUSAN No. 2
LONE SUSAN Fr. No. 1
HAILE MINES
U.P. SHAFT
Operating Inclines
A-1 Drilled by A.E.C. (Data not available)
HD5 4549.4
HD8
Buckmaster 4585.0
Cannon hole
15 14 / 22 23 T. 21 S. R. 14 E.
14°30'
N
S
EXPLANATION
Jmbb Brushy Basin member Morrison fm.
Jmsw Salt Wash member Morrison fm.
Ore hole, at least 1-ft. of 0.20% U_3O_8 or the equivalent in feet - percent
Mineralized hole, less than foregoing
Barren hole
Proposed drill hole
Area lost by conflict
Docket DMEA 3620 (Uranium)
Contract Idm - E792
SAN RAFAEL REEF · AREA
GREEN RIVER DESERT
Emery County, Utah
Uranium Prospectors Co., Ltd., Grand Junction, Colorado
March 1955
SCALE IN FEET
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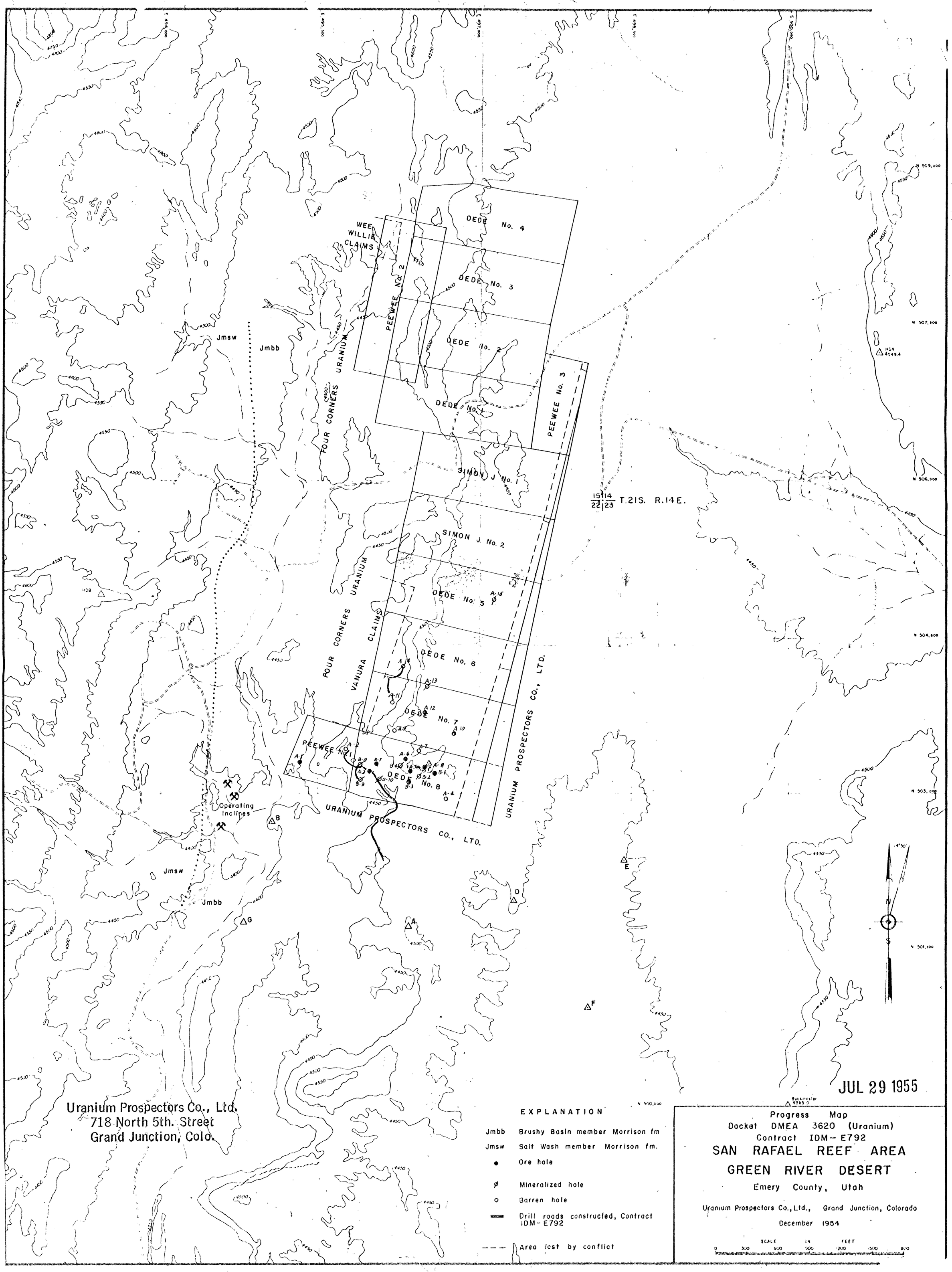
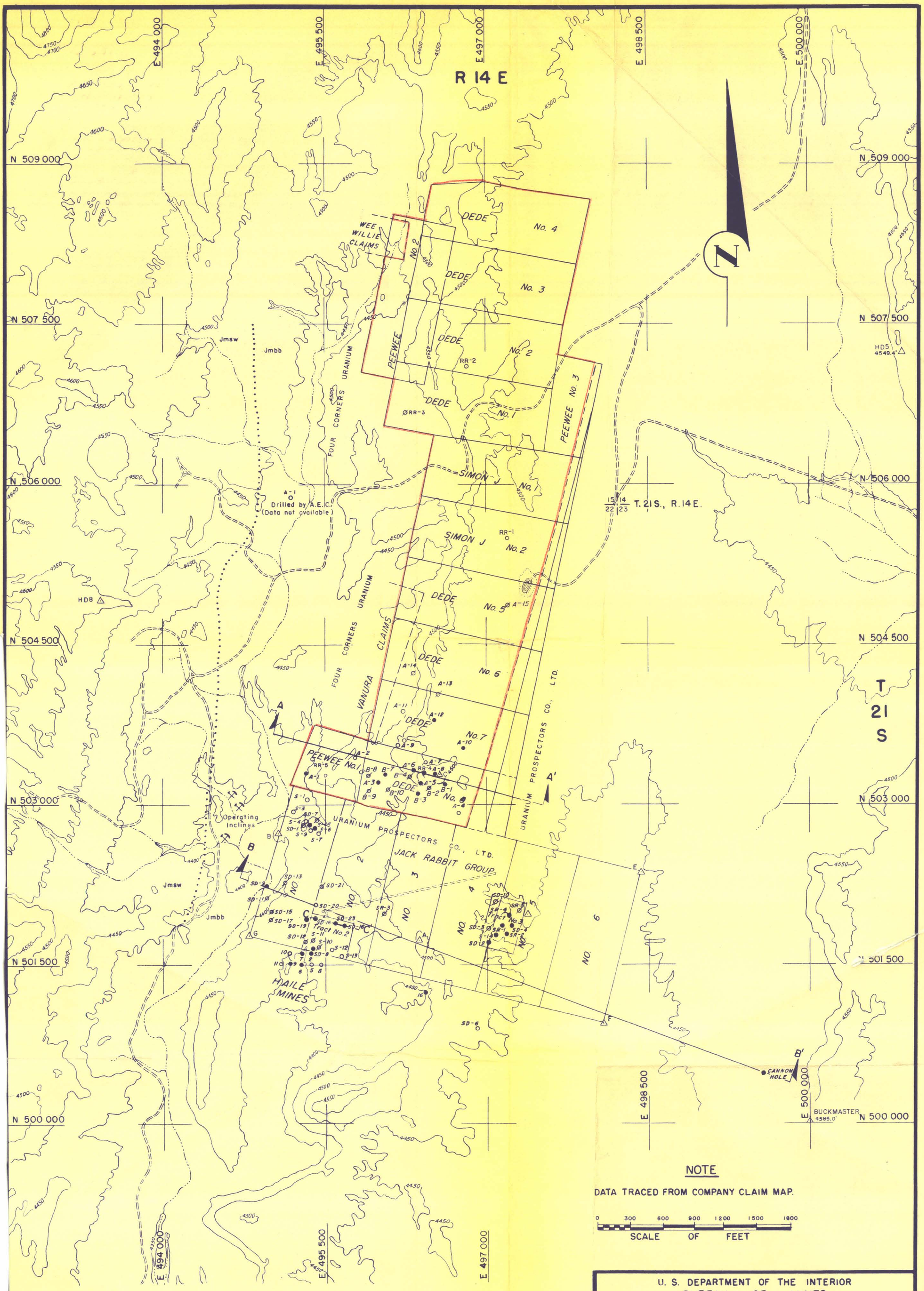

WEE WILLIE CLAIMS
PEEWEE No. 2
DEDE No. 4
DEDE No. 3
DEDE No. 2
DEDE No. 1
PEEWEE No. 3
SIMON J No. 1
SIMON J No. 2
DEDE No. 5
DEDE No. 6
DEDE No. 7
DEDE No. 8
PEEWEE No. 1
FOUR CORNERS URANIUM
VANURA CLAIMS
URANIUM PROSPECTORS CO., LTD.
Jmsw
Jmbb
Operating Inclines
15 14
22 23
T.21S. R.14E.
JUL 29 1955
Uranium Prospectors Co., Ltd.
718 North 5th. Street
Grand Junction, Colo.
EXPLANATION
Jmbb Brushy Basin member Morrison fm
Jmsw Salt Wash member Morrison fm.
Ore hole
Mineralized hole
Barren hole
Drill roads constructed, Contract IDM-E792
Area lost by conflict
Progress Map
Docket DMEA 3620 (Uranium)
Contract IDM-E792
SAN RAFAEL REEF AREA
GREEN RIVER DESERT
Emery County, Utah
Uranium Prospectors Co., Ltd., Grand Junction, Colorado
December 1954
SCALE IN FEET



LEGEND

Jmbb	BRUSHY BASIN MEMBER MORRISON FM.
Jmsw	SALT WASH MEMBER MORRISON FM.
●	ORE HOLE, AT LEAST 1 FT. OF. 10% U_3O_8 OR THE EQUIVALENT IN FEET - PERCENT.
⌀	MINERALIZED HOLE, LESS THAN FOREGOING.
O	BARREN HOLE.
RR-1 O	EXISTING DRILL HOLE.
A-1 O	PROJECT DRILL HOLE.
----	AREA LOST BY CONFLICT.

NOTE

DATA TRACED FROM COMPANY CLAIM MAP.

0 300 600 900 1200 1500 1800
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2 DMEA Docket No. 3620

Claims, Contours, and Drill Locations
SAN RAFAEL REEF AREA
GREEN RIVER DESERT

URANIUM PROSPECTORS CO., LTD.
EMERY COUNTY, UTAH

ENGINEER: *W. E. Young*	DATE: AUG. 18, 1955
TRACED: AUG., 1955; BY: A. P. T. S.	1900 - 312A - D
CHECKED:	