DMEA Form 9
(Rev. 5/57)

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E No. 908 | DMEA NO. 3835

Application (Denied
(Withdrawn
(After disposition, delete items not applicable)

✓ Contract

✓ (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

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

Folder No. 1:

Left Side

Royalty Audits 1/
Certification of Discovery
✓ Cost Audits 2/
✓ Termination Notice or Agreement
Recision Notice
Assignment of Contract
✓ Contract Amendments
✓ Contract with all exhibits and annexes
✓ Owner's Consent to Lien
✓ Subordination Agreement
✓ Application and attachments
✓ Envelope for maps

Right Side

✓ Project summary
✓ Work completed analysis
All other material filed in chronological order including the following reports if checked:

Field Team Semi-Annual Report for Certified Project
Final Field Team Report (Tab)
✓ Operator's Final Report (Tab)
Interim Field Team Reports
Operator's monthly reports and all attachments
✓ On-site Exam Report (Tab)
Settlement Sheets
Drill Logs
✓ Power of Attorney

Additional Folders:

Left Side

✓ Folder No. 2:
Analysis of Semi-Annual Inspection Reports
Interim Summary Reports by DMEA Engineers

Right Side

Field Team Semi-Annual Report for Certified Project
104'S Field Team Interim Reports
✓ Operator's Monthly Report with transmittal, narrative, maps.
✓ SETTLEMENT SHEETS

Folder No.____: Maps (Use pocket folder or envelope.)

Folder No.____: ~~Settlement Sheets~~

Folder No.____: Drill Logs

Folder No.____: Royalty material

1/ Or reports of royalty review
2/ Or cost reports of review

16592

THE ATOMIC MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 13 1957

DATE	INITIALS	CODE
9-16	[illegible]	700

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Price Exploration Company
615 North First Street,
Grand Junction, Colo.

pertaining to Exploration Project Contract No. Idm-2908, Docket No. DMEA-3835, including Amendment No. 1, for the months of June and July, 1956, ~~inclusive, covering~~ a project for the exploration of Uranium on property known as North Pumpkin Buttes located in Campbell County, Wyoming.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer, DMEA Field Team, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reasons:

(a) the administrative cost to the Government of an audit would be excessive in relation to the estimated amount of possible disallowances thereunder;

(b) the Monthly Reports were supported by documentary proof of the costs claimed under the contract provisions for contribution by the Government on the basis of actual costs incurred;

(c) a major portion ($4,115.28) of the costs incurred covered work performed at unit rates under independent contract; and

(d) the balance ($1,269.16) of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs for work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$5,391.16
Exceptions: (Schedule attached)		
By DMEA Finance Officer	$6.72	
Herewith	0.00	6.72
Total Accepted Cost		$5,384.44

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Four thousand, thirty-eight and 33/100ths Dollars

** $4,038.33 **

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

September 9, 1957

T. H. Breding, Auditor

SCHEDULE OF EXCEPTIONS

PRICE EXPLORATION COMPANY

Contract No. Idm-E908

Docket No. DMEA-3835

Non-core Drilling

7 feet of non-core drilling at $0.75 per foot in Hole No. R 13. This hole was not completed and, therefore, is not acceptable to the Government.

7 feet @ $0.75/ft.	$5.25

Incidental Allowance

Disallow incidental allowance for above-listed 7 feet

7 feet @ $0.21/ft.	1.47
Total amount disallowed	$6.72

Disallowance made by Finance Officer; approved by Auditor.

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Government's copy

Ruth Sawyer
"Appd. Col. Off."
Ching
Ellis
Chamberlin
Selfridge
Johnson

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TERMINATION AGREEMENT

It is agreed this 28th day of June, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Harold C. Price, M. L. Price, E. L. Gallery, Alton H. Rowland, Harold C. Price, Jr., Joe D. Price, and R. K. Shivel, partners, doing business as Price Exploration Company, hereinafter called the "Operator," parties to Exploration Project Contract Idm-E908 (Docket No. DMEA-3835), dated December 22, 1955, as amended, hereinafter called the "Contract," that:

1. Effective August 1, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. All rights of the Government provided for in the Contract with respect to certification of discovery or development, percentage royalty and liens for its payment, records, audit, and recovery of any overpayment, are preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

PRICE EXPLORATION COMPANY

Harold C. Price (Partner)
M. L. Price (Partner)
E. L. Gallery (Partner)
Harold C. Price Jr. (Partner)
Joe D. Price (Partner)
Alton H. Rowland (Partner)
R. K. Shivel (Partner)

THE UNITED STATES OF AMERICA

By C. Mitchell Dory
Administrator, Defense Minerals Exploration Administration

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EXPLORATION PROJECT CONTRACT
PRICE EXPLORATION COMPANY
DOCKET NO. DMA 3635
CONTRACT NO. 14m-2906

AMENDMENT NO. 1

It is agreed this 27th day of June, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Price Exploration Company, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. 14m-2906, Docket No. DMA 3635, dated December 28, 1955, hereinafter called the "Contract," that, effective as of the date of the Contract, it is amended as follows:

> Referring to Exhibit "A", caption "Description of the Work," second paragraph, delete the sentence "All holes shall be drilled to a depth of not more than 40 feet." and in lieu thereof substitute the following:
>
> "The holes will be bottomed in the first carbonaceous blue gray shale underlying the mahogany member which is to be explored. It is estimated that the holes may vary in depth up to about 70 feet, but it is expected that the holes will average about 40 feet in depth."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Executed in counterparts the day and year first above written.

PRICE EXPLORATION COMPANY

By George E. Travis
George E. Travis
Agent by Power of Attorney

UNITED STATES OF AMERICA

By W. E. Zaeper
W. E. Zaeper
Executive Officer, DMEA
Field Team, Region III

Docket copy

RECEIVED FEB 20 1956

MF-200
(Revised June 1954)

Docket No. DMEA -3835

Commodity Uranium

Contract No. Idm-E 908

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

EXPLORATION PROJECT CONTRACT[1]

see power of attorney

It is agreed this DEC 22 1955 day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Harold C. Price, M. L. Price, N. L. Gallery, Alton H. Rowland, Harold C. Price, Jr., Joe D. Price, and R. K. Shivel, partners, d/b/a PRICE EXPLORATION COMPANY, whose mailing address is 615 North First 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 5 maps, (Figures 2, 3, 4, 5, and 6).

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 Wyoming, County of Campbell, 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 Agreement, [7] recorded in Book MR-8, page 429, 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: Royalty rights of Charles Christensen and John Christensen of Gillette, Wyoming.

(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, optionor, etc.), are attached, as follows: Subordination Agreement of Charles Christensen and John F. Christensen; Consent to Lien of W. Don Quigley, George H. Caul, and Robert H. Miller.

(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, 1956 shall commence the work, and on or before October 31, 1956 (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 $24,852.00. The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $18,639.00: *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.
See Article 13.

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.

Harold C. Price
Harold C. Price (Partner)

M. L. Price
M. L. Price (Partner)

E. L. Gallery
E. L. Gallery (Partner)

Alton H. Rowland
Alton H. Rowland (Partner)

Harold C. Price, Jr.
Harold C. Price, Jr. (Partner)

R. K. Shivel
R. K. Shivel (Partner)

THE UNITED STATES OF AMERICA

By C. O. Mitchell
Administrator, Defense Minerals
Exploration Administration

Andritz 12/14/55
Dwyer
"Appd. Sol. Oil."

Joe D. Price
Joe D. Price (Partner)

d/b/a PRICE EXPLORATION COMPANY

Ching
Ellis
Fisher
Selfridge
H. Johnson

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... 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.

.....

[CORPORATE SEAL]

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

EXPLORATION PROJECT CONTRACT
DOCKET NO. DMRA-3835
PRICE EXPLORATION COMPANY

ANNEX I

The land referred to in Article 2 of the contract consists of 25 unpatented lode mining claims situated in Section 35, T. 45 N., R. 76 W., and Sections 27, 28, 29, 33, and 34, T. 45 N., R. 75 W., 6th P.M., Campbell County, Wyoming. The claims are shown on the attached maps (Figures 2, 3, 4, 5, and 6) and the notices of location of the claims are recorded in the Office of the County Recorder as follows:

Claim	Book	Page
Arizona No. 1	4	215
Arizona No. 3	7	468
Arizona No. 4	7	469
Arizona No. 6	7	470
Arizona No. 7	7	471
Colorado No. 1	4	224
Colorado No. 2	4	225
Colorado No. 3	4	226
Colorado No. 4	4	227
Colorado No. 5	7	464
Colorado No. 7	7	465
Colorado No. 8	7	466
Colorado No. 9	7	467
Utah No. 1	4	215
Utah No. 2	4	216
Utah No. 3	4	217
Utah No. 4	4	218
Utah No. 5	7	461
Utah No. 7	7	462
Utah No. 8	7	463
Utah No. 9	4	219
Utah No. 10	4	220
Utah No. 11	4	221
Utah No. 12	4	222
Utah No. 13	4	223

EXPLORATION PROJECT CONTRACT
DOCKET NO. DMMA-3835
FRICK EXPLORATION COMPANY

EXHIBIT "A"

Description of the Work

The work consists of exploration by rotary non-core drilling to test a favorable stratigraphic interval of the Wasatch formation of Eocene age. The location of the work is indicated on the maps labeled Figures 2, 3, 4, 5, and 6, attached hereto and made a part hereof.

All holes shall be drilled to a depth of not more than 40 feet. Diameter of bit shall be such as to permit easy probing of the holes. Drill cuttings shall be collected with a Duclose sample collector. Samples shall be taken at 2½-foot intervals except in mineralized zones where the interval shall be reduced to 1 foot. Samples shall be checked radiometrically for uranium and those indicating significant mineralization shall be analyzed chemically for uranium and vanadium.

All drill holes shall be logged geologically and probed radiometrically, and the record of such logging and probing, together with certified copies of all assay certificates, shall be submitted with the Operator's monthly progress reports.

The project shall be supervised by a competent engineer-geologist who shall devote full time to the project work.

The work shall be divided into four successive stages. The Operator shall complete Stage I and perform as much of Stage II, Stage III, and Stage IV as the Government considers warranted by the results of the preceding work and which the Government approves in writing.

The location, direction, inclination, and extent of all project work are subject to the approval of the Government.

Stage I

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill approximately 145 holes aggregating not more than 5,800 feet. The positions of the holes are indicated on the attached maps labeled Figures 3, 4, 5, and 6, and are limited to the areas shown as A, B, C, E, F, Q, R, V, and W. Including the holes previously drilled by the Operator for his own account, the drilling plan for each area consists of holes in a hexagonal pattern on 100-foot centers.

If an area is proven unfavorable before the holes planned for that area are completed, the unused footage may be added to the footage planned for Stage II.

Stage II

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill approximately 145 holes aggregating not more than 5,800 feet as offsets to Stage I holes that show significant mineralization, provided, however, that more than 5,800 feet may be drilled to the extent that footage not used under Stage I is available for use under Stage II. The offset holes shall not be drilled closer than 50 feet from any previously drilled hole.

Stage III

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill approximately 107 holes aggregating not more than 4,280 feet. The positions of the holes are indicated on Figures 3, 4, 5, and 6, and are limited to the areas shown as G, H, I, O, S, T, and U. The drilling plan for each area, as in Stage I, consists of holes in a hexagonal pattern on 100-foot centers. If an area is proven unfavorable before the holes planned for that area are completed, the unused footage may be added to the footage planned for Stage IV.

Stage IV

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill approximately 107 holes aggregating not more than 4,280 feet as offsets to Stage III holes that show significant mineralization, provided, however, that more than 4,280 feet may be drilled to the extent that footage not used under Stage III is available for use under Stage IV. The offset holes shall not be drilled closer than 50 feet from any previously drilled hole.

Estimated Cost of the Project

Actual Costs

Category (1) Independent Contracts

20,160 feet rotary non-core drilling @ $0.75/ft.	$15,120.00

40 hours bulldozer work @ $12.50/hr.	$ 500.00	
Categories (2) through (7)	None	
Estimated Total Actual Costs		$15,620.00

Fixed Unit Costs

The Government will contribute to the requirements hereinafter stated on the basis of the fixed unit costs specified therefor, as such costs accrue, in lieu of actual costs. Fixed unit costs include all costs of the project whatsoever except those actual costs scheduled above under the category "Independent Contracts." No other categories of actual costs in Article 6 of the contract form are allowable costs under this contract.

1,000 chemical sample analyses @ $5.00/sample	$ 5,000.00	
*Incidental allowance for each foot of drilling completed - 20,160 feet @ $0.21/ft.	4,233.60	
Estimated Total Fixed Unit Costs		$ 9,233.60

SUMMARY

Estimated Total Actual Costs	$15,620.00	
Estimated Total Fixed Unit Costs	9,233.60	
Estimated Total Cost of the Project (rounded to)		$24,852.00
Government Participation @ 75%		$18,639.00

* Includes all costs of the project whatsoever that are not included under the actual cost category "Independent Contracts" 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, engineering, equipment, supplies, accounting, etc.

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MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator ~~Peter Exploration Co.~~
Docket No. DMEA-~~[illegible]~~
Contract No. Idm-E
Contract Date

SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of ~~Campbell~~, State of ~~Wyoming~~, described ~~as follows:~~1/

~~in the "Royalty and Surface Damage Agreement" with Charles and John Christensen, dated February 7, 1955 and recorded in the Office of County Recorder, Campbell County, Wyoming, in Book MF 8, Page 419 on May 9, 1955~~

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. Subordinates whatever right, claim, lien or encumbrance the undersigned may have in or against the land to whatever interests, equities, and rights the Government may acquire under the contract (a) with respect to purchased property in or upon the land to the cost of which it has contributed, including the right to dismantle, sever, and remove it from the land; and (b) with respect to a percentage royalty on production from the land and a lien to secure the payment thereof; and

2. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Subordination Agreement; and (b) to give advance notice of this Subordination Agreement to any transferee of the right, claim, lien, or encumbrance hereby subordinated; and

3. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Subordination Agreement shall extend and apply thereto.

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.

(OVER)

Dated this 4 day of November, 1955.

John F. Christensen [Seal]

Charles Christensen [Seal]

_____ [Seal]

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]

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Price Exploration Co.
Docket No. DMEA- 3835
Contract No. Idm-E
Contract Date

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DEC - 1 1955

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Campbell, State of Wyoming, described as follows:1/

Unpatented lode mining claims recorded in the official records of said County and further described in Annex I which is attached hereto and made a part hereof.

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/

Royalty and Surface Damage Agreement with Charles and John Christensen.

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 16th day of Nov, 1955.

H. Dow Gingley [Seal]

George H. Gaul [Seal]

Robert H Miller [Seal]

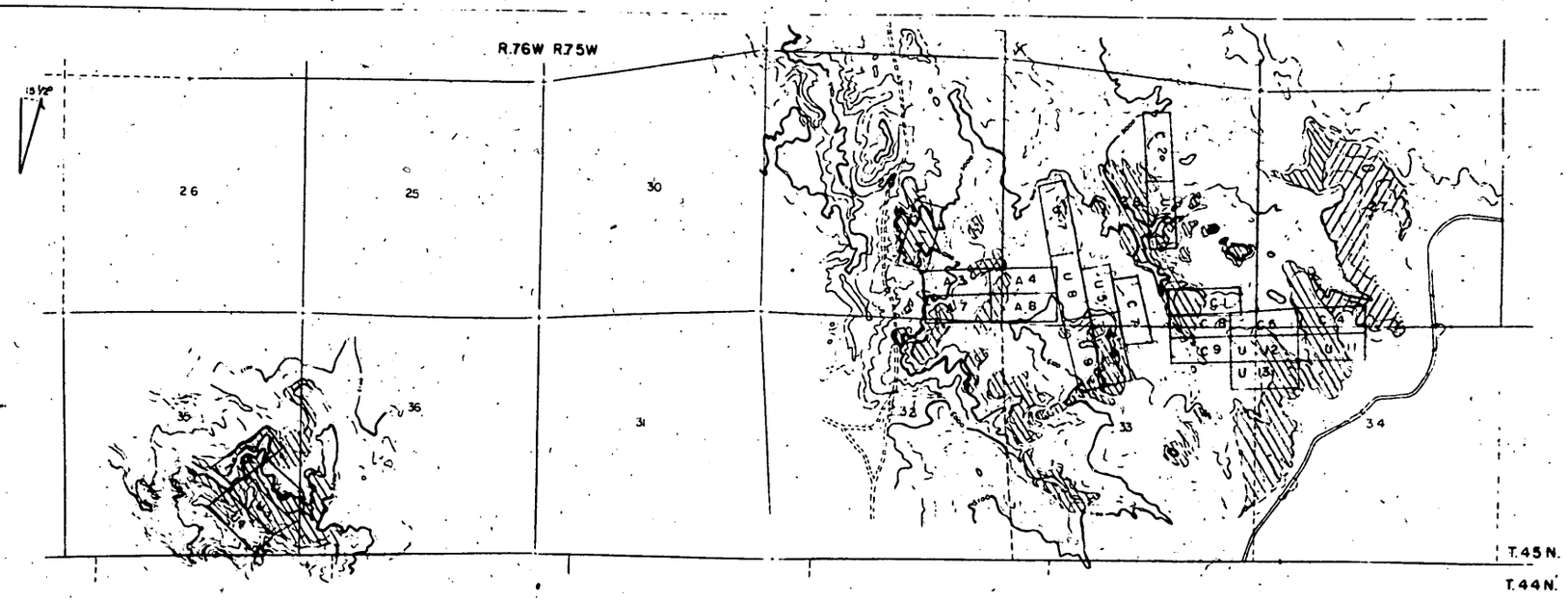
I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing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

_____

[Corporate Seal]

ANNEX I

CLAIM NAME	LOCATION DATE *under P.L.#250	RECORDING DATE	BOOK	PAGE
Arizona No. 1	*Dec. 8, 1953	Dec. 9, 1953	4	215
Arizona No. 3	Apr. 3, 1955	Apr. 6, 1955	7	468
Arizona No. 4	"	"	7	469
Arizona No. 6	"	"	7	470
Arizona No. 7	"	"	7	471
Colorado #1	*Dec. 8, 1953	Dec. 9, 1953	4	224
Colorado No. 2	* "	"	4	225
Colorado No. 3	* "	"	4	226
Colorado No. 4	* "	"	4	227
Colorado No. 5	Apr. 3, 1955	Apr. 6, 1955	7	464
Colorado No. 7	"	"	7	465
Colorado No. 8	"	"	7	466
Colorado No. 9	"	"	7	467
Utah No. 1	*Dec. 8, 1953	Dec. 9, 1953	4	215
Utah No. 2	* "	"	4	216
Utah No. 3	* "	"	4	217
Utah No. 4	* "	"	4	218
Utah No. 5	Apr. 3, 1955	Apr. 6, 1955	7	461
Utah No. 7	"	"	7	462
Utah No. 8	"	"	7	463
Utah No. 9	*Dec. 8, 1953	Dec. 9, 1953	4	219
Utah No. 10	* "	"	4	220
Utah No. 11	* "	"	4	221
Utah No. 12	* "	"	4	222
Utah No. 13	* "	"	4	223



PRICE EXPLORATION COMPANY
CLAIMS AND GEOLOGY
CAMPBELL COUNTY, WYO
AUGUST, 1955
SCALE 1:24000
CONTOUR INTERVAL 20 FEET

WASATCH FORMATION, RED SS.
WASATCH FORMATION, GRAY TO BUFF SS.

A ARIZONA CLAIM
C COLORADO CLAIM
U UTAH CLAIM

SOURCE: UNPUBLISHED U.S. GEOLOGICAL SURVEY REPORT

DOCKET NO. 3835

Figure 2

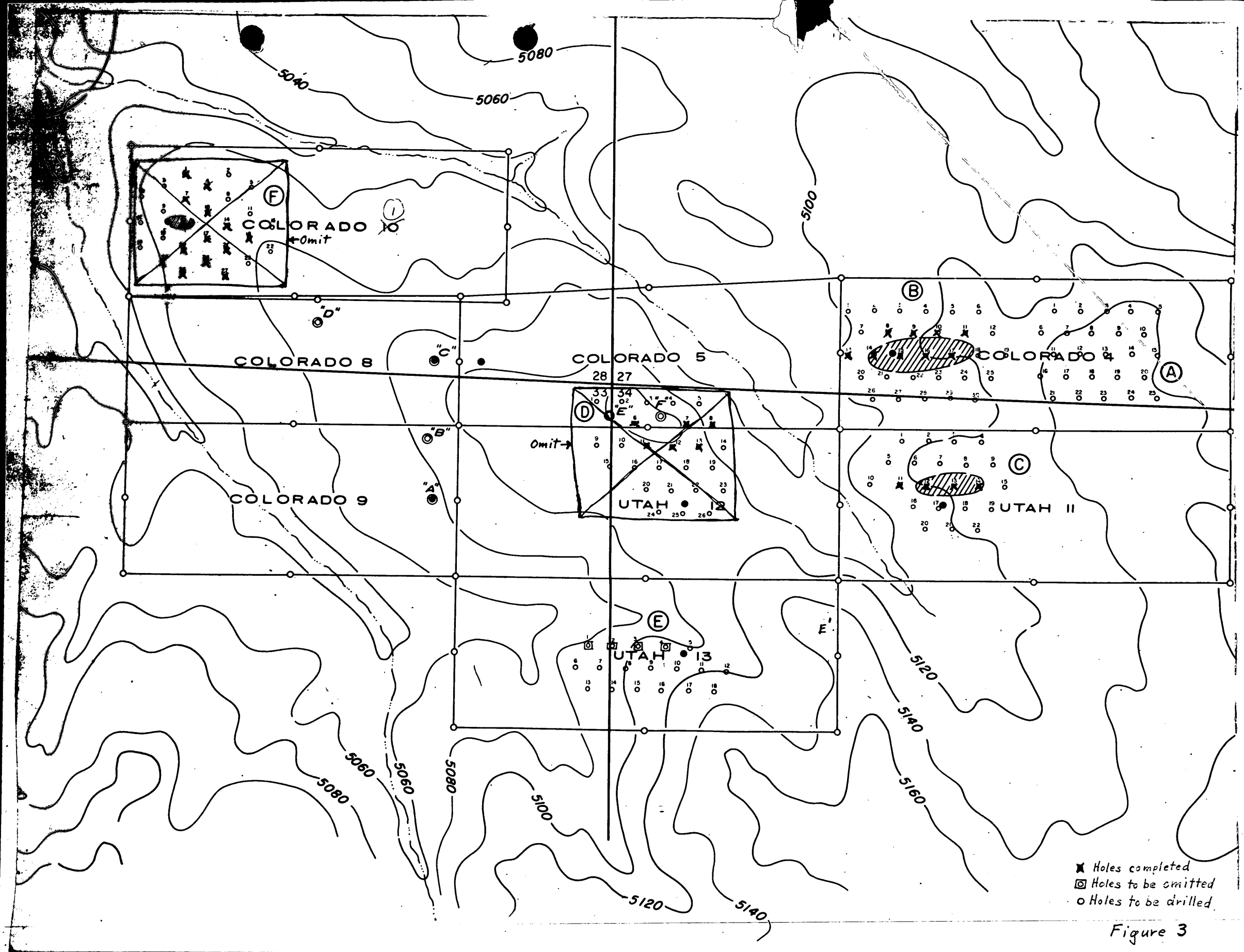

5040
5060
5080
5100
5120
5140
5160
COLORADO 10
Omit
COLORADO 8
COLORADO 5
COLORADO 4
COLORADO 9
UTAH 12
UTAH 11
UTAH 13
Omit
"A"
"B"
"C"
"D"
"E"
"F"
E'
28 27
33 34
Holes completed
Holes to be omitted
Holes to be drilled

Figure 3

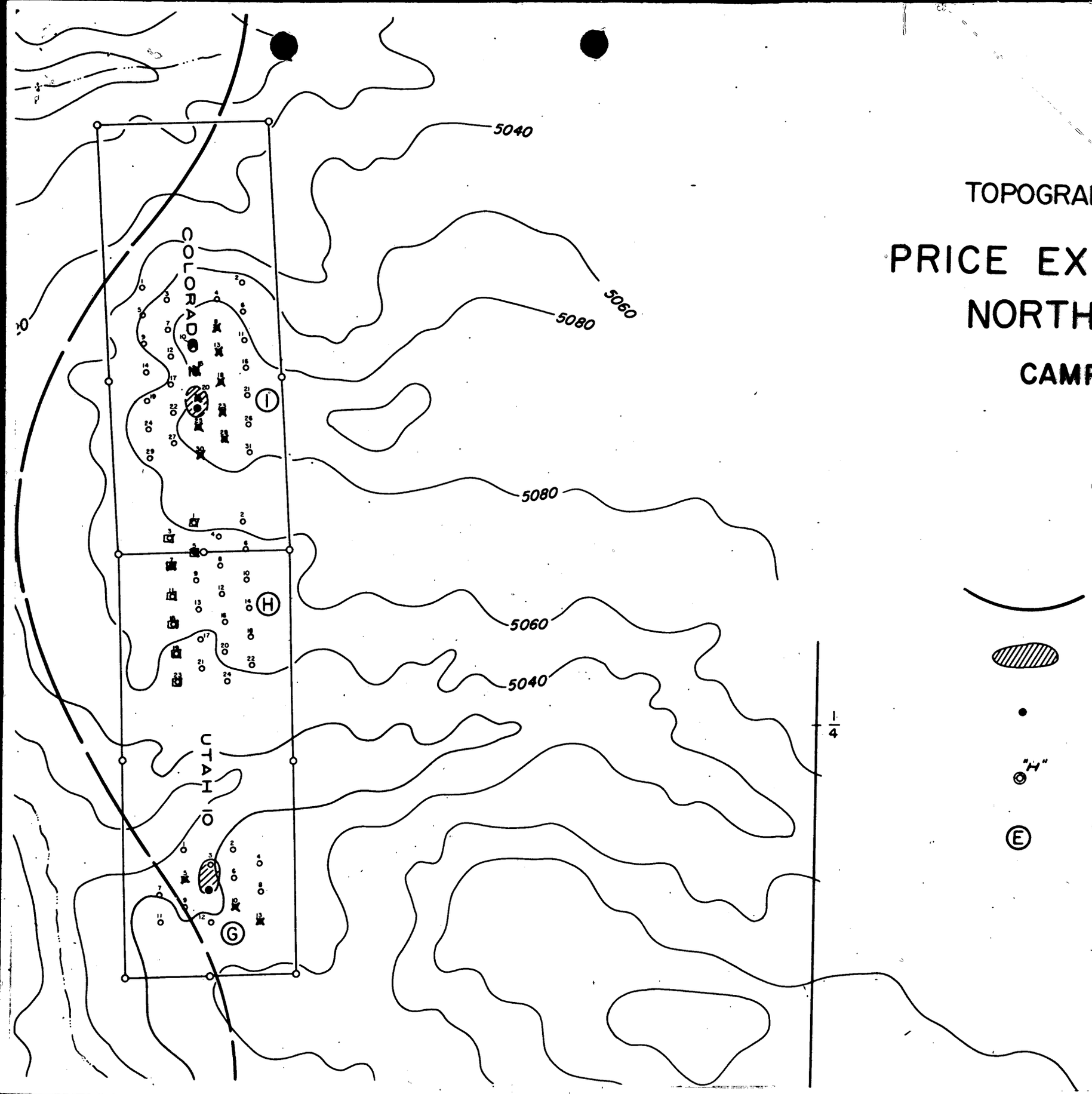


Figure 4

TOPOGRAPHICAL AND CL

PRICE EXPLORATI

NORTH PUMPKIN

CAMPBELL COUNT

T. 45 N., R. 7

0 200 400 600

CONTOUR INTERVAL 20

BOUNDARY OF AREAS OUTSIDE AREA OF MAPPING MOST FAVORABLE FOR OCC OF URANIUM MINERALIZA

MINERALIZED AREA

DISCOVERY MONUMENT

"H" FOR ASSESSMENT WORK HOLES "A" THROUGH "W"

E DRILL HOLE GROUP DESIGNATION

Holes completed
Holes to be completed
Holes to be drilled

Figure 4

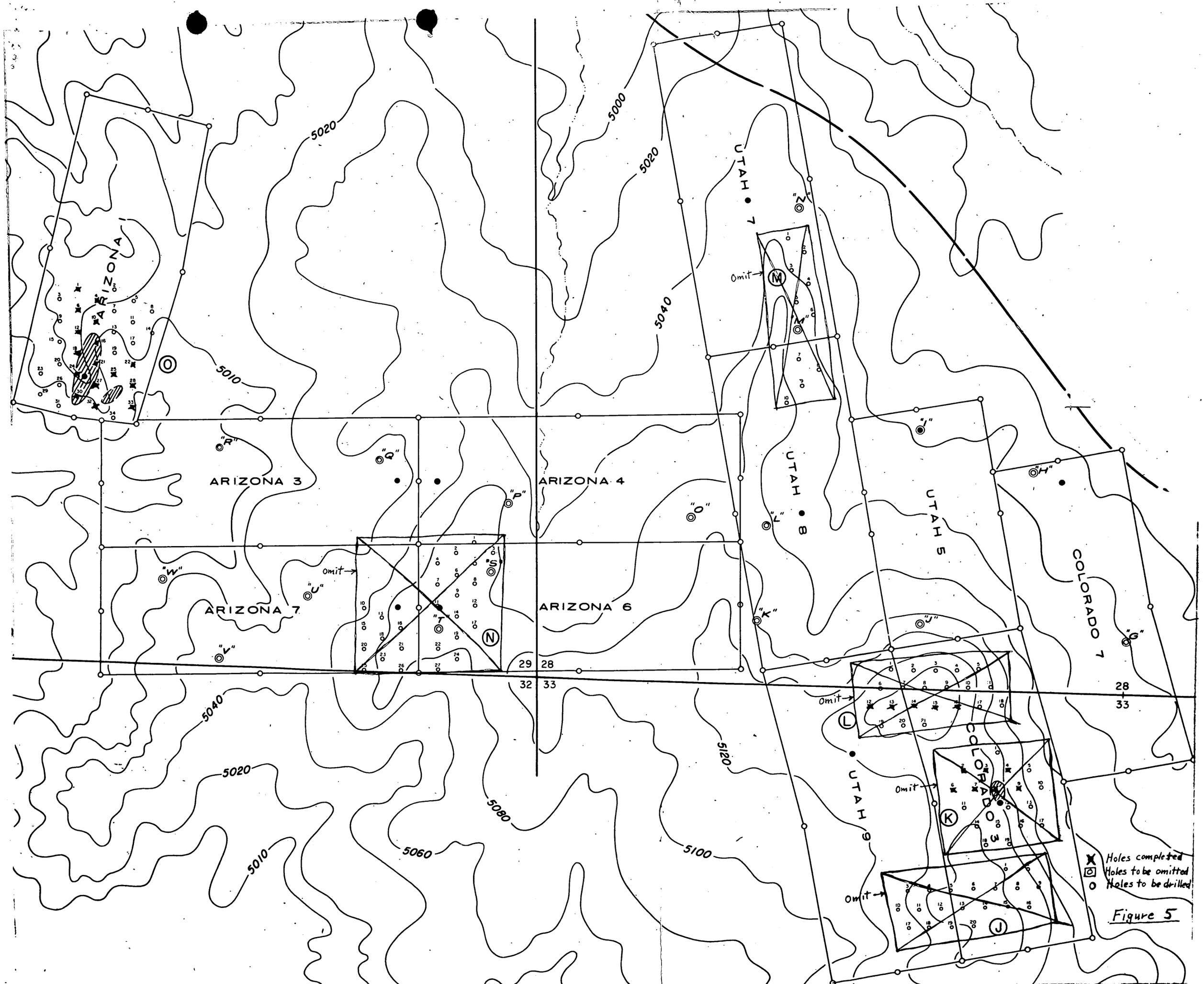

ARIZONA 2
ARIZONA 3
ARIZONA 4
ARIZONA 6
ARIZONA 7
UTAH 7
UTAH 8
UTAH 9
UTAH 5
COLORADO 7
COLORADO 3
5000
5010
5020
5040
5060
5080
5100
5120
29
28
32
33
Omit
Holes completed
Holes to be omitted
Holes to be drilled

Figure 5

Figure 6

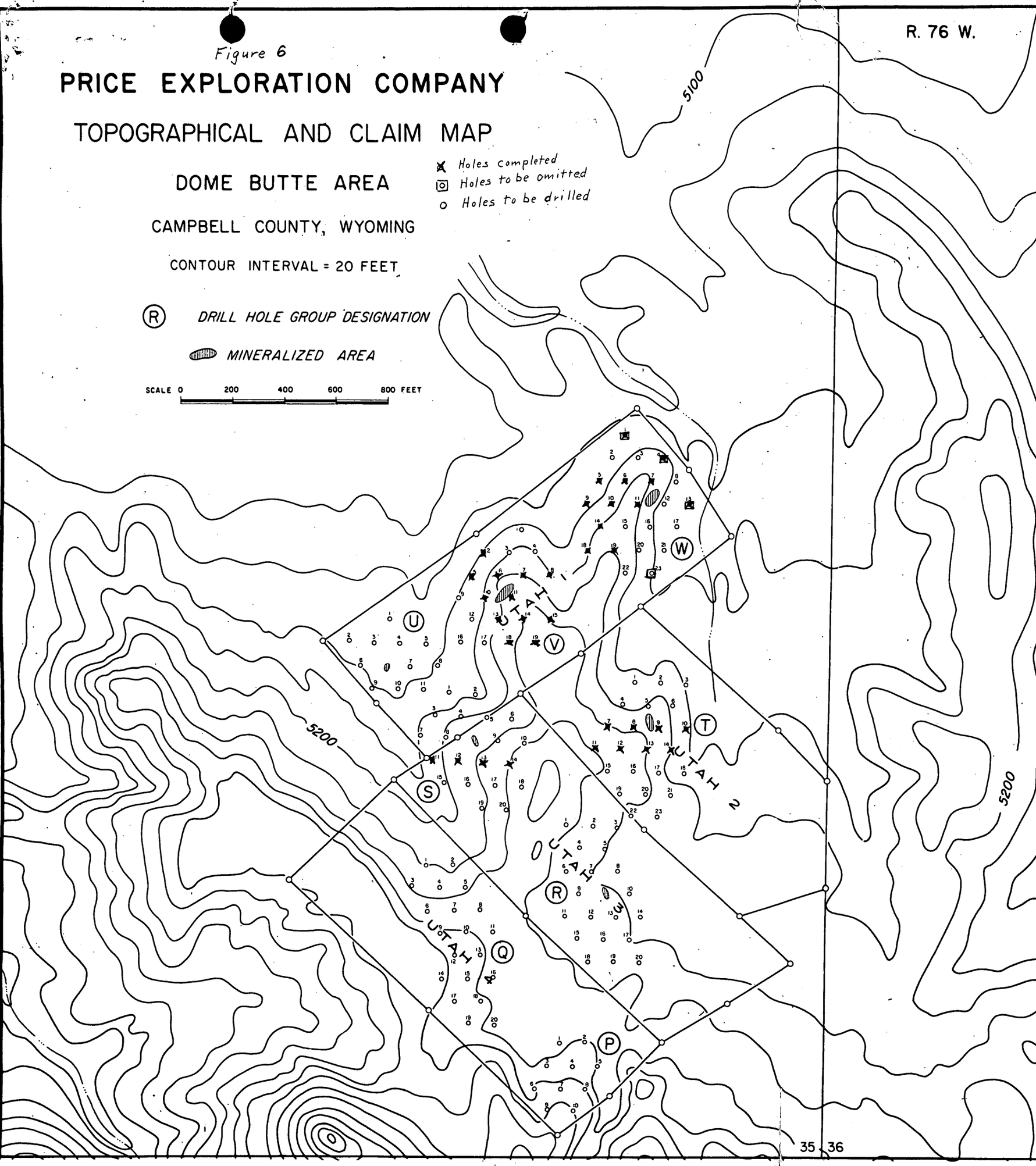
PRICE EXPLORATION COMPANY

TOPOGRAPHICAL AND CLAIM MAP

DOME BUTTE AREA

CAMPBELL COUNTY, WYOMING

CONTOUR INTERVAL = 20 FEET



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POWER OF ATTORNEY

We, the undersigned, members of a partnership doing business [illegible]ice Exploration Company, 615 North First Street, Grand Junction, Colorado, do hereby appoint GEORGE G. TRAVIS to act as the agent of said partnership in all matters connected with the United States Department of the Interior, Defense Minerals Exploration Administration, DMEA Docket 3835, Contract Idm-R908, and in behalf of said partnership to submit to the Government all necessary reports and information required under said contract, and said agent is authorized to receive individually, and to receipt for, any monies that are now or may hereafter become due to said partnership by reason of said Contract Idm-R908.

DATE FEB 2[illegible]

Harold C. Price
Harold C. Price

M. L. Price
M. L. Price

Harold C. Price
Harold C. Price, Jr.

Joe D. Price
Joe D. Price

E. L. Gallery
E. L. Gallery

R. K. Shivel
R. K. Shivel

Alton H. Rowland
Alton H. Rowland

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Minerals Administration
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APPLICATION FOR DMEA PROJECT ON

NORTH PUMPKIN BUTTES

May 16, 1955

PRICE EXPLORATION COMPANY
615 N. First Street
Grand Junction, Colorado

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	B) Name of Property	1
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	D) Lease Documents	2
	E) Liens and Encumbrances	2
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   - D. OWNERS' CONSENT TO LIEN

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APPLICATION FOR DMEA PROJECT ON THE NORTH PUMPKIN BUTTES
FOR

PRICE EXPLORATION COMPANY
615 N. First Street
Grand Junction, Colorado

1. NAME OF APPLICANT

A) Price Exploration Company (See Form MF-103, Exhibit 1)
B) Omitted, not a corporation.
C) For names and addresses of partners, See Exhibit 2.

2. GENERAL

This report, together with Form MF-103, attached as Exhibit 1, is an application for a Defense Minerals Exploration Administration project contract of the short form or unit cost type. The project cost of $24,708.50 is to determine the extent of the potential uranium deposits and will consist of 19,720 feet of drilling and coring, at an estimated unit cost of $1.25 per foot. Twenty-five per cent of the project cost or $6,177.13 will be paid by Price Exploration Company, the applicant herein; the Defense Minerals Exploration Administration is asked to loan the balance of $18,531.37.

Locations for 493 project holes are indicated on Figure 2. These locations are on 100 foot centers in a hexagonal pattern and were selected and limited to that part of the property upon which surface mineralization is present or where topographic location is favorable.

3. PROPERTY RIGHTS

A) Legal Description -
The land on which the exploration work is to be performed consists of 25 unpatented mining claims, located in the Pumpkin Buttes area of Campbell County, Wyoming. The location, with respect to the G.L.O. grid, is shown in Figures 1 and 2.

B) Name of Property -
This property will be referred to in this report and further correspondence as North Pumpkin Buttes.

C) Interest in the Land -
Price Exploration Company obtained an eighty per cent lease interest as per lease agreement from W. Don Quigley, George H. Gaul and Robert H. Miller, dated November 30, 1954. See Exhibit 4-B

D) LEASE DOCUMENTS. See Exhibits 4-B,C, and D.

E) Liens and Encumbrances -
There is a royatty obligation reserved to the lessors in the amount of nine per cent as per lease agreement dated November 30, 1954. There is also a royalty obligation to the surface owners in the amount of three to six per cent as per "Royalty and Surface Damage Agreement" dated February 7, 1955. See Exhibit 4-C

F) Record of Title -
All transactions affecting titles to the claims are recorded in the office of the County Recorder of Campbell County, Wyoming. The location dates, recording dates, book and page numbers are tabulated in Exhibit 4-A.

4. PHYSICAL DESCRIPTION

A) Mining or Exploration Operations -
There are no mining workings on the claims. There has been no previous drilling on the claims by the U.S.G.S., AEC, or other agencies. The applicant has no knowledge of any drilling program being contemplated in the North Pumpkin Buttes area by the afore-mentioned agencies.

Twenty-three 30-foot holes have been drilled on eleven claims for validation work. Although most of these holes were not located on the most favorable claims, the results indicated the presence of favorable sandstone host rocks. Another hole was drilled in 1953 in the "B" area and penetrated three feet of 1% ore, which indicates the presence of a commercial ore body.

B) Production and Ore Reserves -
There has been no past production and at present there are no proven ore reserves on the North Pumpkin Buttes property.

C) Geologic Features -
A geologic report is attached as Exhibit 3.

D) Accessibility -
North Pumpkin Buttes is accessible by an unimproved road from Savageton, Wyoming, seven miles to the east. Supplies for exploration and mining and all necessary equipment can be obtained at Casper or Gillette, Wyoming.

E) Availability of Manpower, Equipment, Supplies, etc. -
Manpower skilled in the performance of the type of drilling planned is readily available in the vicinity. Most of the equipment and manpower to be employed on the project, will be personnel and equipment of Price Exploration Company, and of the drilling contractor.

5. THE EXPLORATION PROJECT

A) Minerals for which Exploration is planned -
It is planned to explore for all uranium and vanadium bearing minerals. (See MF-103, Exhibit 1)

B) Proposed Work
The drilling equipment for the project will be provided by Dawn Drilling and Mining Company. It is anticipated that the project will require approximately three months to complete.

The location of the proposed holes are indicated on Figure 2 and the depth of the holes will be 40 feet. There are locations for 493 holes on twenty-three separate favorable areas marked "A" to "W" as indicated on Figure 2. The hexagonal hole pattern of 100-foot radius on the favorable areas should adequately determine the mineral trend and evaluate the ore potential.

Logging and Sampling - A sampler will be employed to supervise the logging and sampling of cores. An accurate log will be kept by the field geologist. Cores from each run will be carefully removed from the core barrel by the driller and placed in compartmented core boxes and properly marked as to hole number and depth. These cores will be stored at the drill site so that they will be preserved intact and will be available for inspection by supervisory personnel and DMEA Field Team members. The geologist will sample mineralized core, as determined at the site by a field gamma ray detecting device, and carefully describe it in a bound field book as the sample is placed in the sample bag. Core losses will be recorded where they appear in the section and prorated otherwise with regard to lithology. No more than one foot of core will be included in one sample. All samples will be sent to a commercial laboratory for analysis of U_3O_8, V_2O_5 and $CaCO_3$ content.

Geologic control of Drilling -Price Exploration Company asks the privilege of not drilling any of the proposed holes shown in Figure 2, if, in the opinion of the technical personnel of Price Exploration Company, they fall in an area which, based on previous drilling, is considered unfavorable for mineralization. The footage thus saved would be used in closer spacing in more favorable areas. This would be done with the approval of the DMEA Field Team. The criteria used to determine unfavorable indications will be, in general, the same as that used by the USGS and AEC in their drilling programs, as

discussed in USGS Bulletin 988B.

The Drilling Plan - The drilling plan would proceed in accordance with the hexagonal pattern on one designated area until the pattern was completed before proceeding to another designated area. 470 holes would be drilled with a 3 7/8" bit which would permit probing and adequate cutting samples. On each of the 23 favorable areas one hole located near the center of each area will be core drilled so that 1 7/8"cores can be recovered. All holes will either be drilled or cored to a depth of 40 feet.

C) Beginning and Completion Dates -
(See MF-103, Exhibit 1)

D) Ability of Applicant -
Price Exploration Company, the applicant, is a partnership, consisting of seven members. The net worth of the principal partners, Mr. H. C. Price and Mrs. M. L. Price is in excess of $5,000,000. The partnership was formed July 1, 1954, for the purpose of exploring and producing uranium and other minerals.

Harold C. Price, managing partner, has had the following experience:

1913, Graduate engineer, Colorado School of Mines.
1913, Engineer for New Pennsylvania Mines Co., at Montezuma, Colo.
1914-15, Chemist with American Metals Co. at Salida, Colo.
1915-17, Superintendent of Bartlesville Zinc Co.
1918, In armed service, World War 1.
1919, Assistant Manager, American Metals Co. at Langeloth, Pa.
1919-21, Manager, Bartlesville Zinc Co.
1921, Established own electric welding shop in Bartlesville, Okla.
1922-28, Pioneered and contracted in electric welding.
1929-41, Electric welded over 17,000 miles of pipelines.
1941 to present, General constructor of oil and gas pipelines in the United States, Alaska, Canada, South America and the Middle East.
Manufacturer and licensee of "Somastic" pipe line coating.

Present executive and operating positions:
President, H. C. Price Company
Executive Partner, The Price Company

Major Construction Projects:
Major portion of the "Big Inch" and "Little Inch" pipelines for the War Emergency Pipe Lines, Inc.
The Canol Project in Canada and Alaska, constructed with associates.

The first "30 inch" pipeline, known as the "Biggest Inch". transmitting gas from Texas to So. California in 1947.

The "Toughest Inch" built in 1949, for Columbia Gas, 26 inch line between Charleston, W. Va., and Rockville, Maryland.

Professional Attainments and Awards:

American Institute of Mining and Metallurgical Engineers.

Engineers Club of San Francisco.

Engineers Club of Bartlesville.

American Petroleum Institute.

American Gas Association.

American Welding Society.

Mid-Continent Pipe Line Chapter of the Associated Contractors of America.

Additional Information:

Participated with associates in the extensive shipbuilding operations and airplane modification during World War II.

M. Darwin Quigley, Ph.D. in Geophysics and Geology, Cal. Tech.

Four years experience with the Government in Geophysical work.

Seven years experience as District and Research Geologist with the Sinclair Oil and Gas Company.

One year experience in Uranium exploration.

Charles W. Shannon

Five years experience in Geology and Mining with U.S.G.S.

Six years Mining and Exploration experience with the St. Joseph Lead Co., a major base metals producer.

Two years experience in Research Geophysics with Sinclair Research Laboratories, Inc.

One year experience in Uranium exploration.

W. Donald Quigley, Consulting Geologist.

Seven years experience with the Government in electrical, physical, and geophysical work.

Four years experience with the Government in Uranium Mining and Atomic Energy work.

Three and one-half years experience as a Geological Consultant in connection with Oil, Uranium and Mining work.

W. G. Haldane, Consulting Mining Engineer

1913-15, Acting President, Colorado School of Mines.

1917-19, Plant Superintendent, Western Potash Co. of Nebraska.

1919-36, Consulting Engineer, Denver, Colorado

1936-48, affiliated with United States Vanadium Co. as Vice-President of Union Mines Development Co., delegated by Government (Manhattan District) to survey Uranium resources of this and other countries.

1948-54, one of the founders of Minerals Engineering Co. Author of a number of technical papers on Mining & Mettallurgy, and co-inventor of several early patents covering processing of Uranium-Vanadium ores.

George G. Travis, Operating Manager
Thirty years experience, drilling, producing and managing oil company business.

6. ESTIMATE OF COSTS

Price Exploration Company desires that this exploration project be placed on a unit cost basis. Schedule I gives the exact amount bid per unit by Price Exploration Company for performing the exploration work. Schedule 2 indicates the drilling and coring depths per hole. Custom assaying is not included in the cost per foot for drilling, because of the difficulty in making an accurate estimate. The $6.00 per sample figure bid for custom assaying is the exact amount which will be charged by Price Exploration Co.

A) Independent Contracts -

The drilling, coring, road and location work will be performed by the Dawn Drilling and Mining Colk Inc., of Grand Junction, Colorado, and by the Price Exploration Company.

1. Plug drilling, 18,800 ft. @ $.75 $14,100.
2. Core drilling, 920 ft. @ 2.75 2,530.
3. Road and location building -
   D-7 Cat. 10 days @ $100. per day 1,000.

Total Independent Contract.....$17,630.00

B) Labor, Supervision, Consultants -

1. Geological supervision and expenses 1,950.
2. Sampler and field assistant 1,800.

Total 6 B).....3,750.00

C) Operating Materials and Supplies -

1. Drill log reproduction and Off. Sup. 450.
2. Fuel and oil
   a. Auto, field assistant $100. per mo.
   b. Auto, supervisory $50. per mo.
   c. Butane, house trailer $10. per mo.
   480.

Total 6 C).....930.00

D) Equipment depreciation -

1.	Auto, field assistant @ $50. per mo.	150.
2.	Auto, supervisory @ $30. per mo.	90.
3.	House trailer @ $50. per mo.	150.
4.	Radiometric counter probe @ $50.	150.

Total 6 D).....$.540.00

E) Rehabilitation and repairs -

1.	Rehabilitating surface land damage	500.
2.	Field autos	100.

Total 6 E).....600.00

F) New Buildings, Improvements - none

G) Miscellaneous

1.	Workmen's Compensation, etc.	240.
2.	Accounting and monthly reports	300.
3.	Insurance on equipment	75.

Total 6 G)..... 615.00

H) Contingencies on 6 B),C),D),E),& G) may be increased by 10% on account of prolonging completion of project and for unforseen costs. Total 6 H)..... 643.50

7. APPLICANT'S SHARE OF COST -

In accordance with DMEA regulations, Price Exploration Company is prepared to pay 25% of the cost of the project in the following manner:

Price Exploration Company will perform all of the necessary work and pay for all independent contracts, labor, materials, and supplies used. Reimbursement by DMEA will be in accordance with Schedule 1, less 25%, i. e., the amount to be loaned by the Government for each unit of work performed will be 25% less than the amounts shown on Schedule 1.

Respectfully submitted,

PRICE EXPLORATION COMPANY

By: _____
Operating Manager

SCHEDULE I.

Summary of Costs

Project Cost Per Unit, Basis 19,720 Feet of Hole

			Project Cost	Unit Cost
6.	A)	Independent Contract -		
		1. Drilling	$14,100.00	.70
		2. Coring	2,530.00	.12
		3. Road and Location Building	1,000.00	.05
	B)	Labor, Supervision, etc.	3,750.00	.19
	C)	Operating Materials & Supplies	930.00	.04
	D)	Equipment Depreciation	540.00	.03
	E)	Rehabilitation & Repairs	600.00	.03
	F)	New Buildings, etc.	none	---
	G)	Miscellaneous	615.00	.03
	H)	Contingencies	643.50	.03
		TOTALS.....	$24,708.50	$1.25
		DMEA, 75% Share Costs	$18,531.37	$0.93 3/4
		Price Exploration Company 25% Share Costs	6,177.13	0.31 1/4

SCHEDULE 2

Drilling and Coring Depths

	Drilling Footage	Coring Footage
Drilling 470 holes, average depth 40 ft	16,800 ft.	

Coring - Hole No.	Footage
A-13	40
B-16	40
C-13	40
D-12	40
E-9	40
F-13	40
G-3	40
H-12	40
I-20	40
J-13	40
K-12	40
L-14	40
M-5	40
N-11	40
O-21	40
P-4	40
Q-10	40
R-12	40
S-13	40
T-13	40
U-7	40
V-11	40
W-11	40

23 core holes — 920 ft.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA 3835
Metal or Mineral Uranium
Date Received 5-25-55
Estimated Cost $24,708.50
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: PRICE EXPLORATION COMPANY
615 North First Street
Grand Junction
Colorado

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

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners. See Exhibit 2.

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 application.

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

(*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 Exhibits 4-B & 4-C; also Exhibit 4-D/

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See Exhibit 4-A

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

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

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See Exhibit 3.

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Applicant plans to explore for all uranium and vanadium bearing minerals.

(*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. See attached application.

(*c*) The work will start within 60 days and be completed within 3 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See attached application.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper. See attached application for heading numbers 6 & 7.

CERTIFICATION

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

Dated May 16, 1955

PRICE EXPLORATION COMPANY
(Applicant)

By George P. Brown
Operating Manager

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

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

EXHIBIT NO. 2

Minerals Administration
RECEIVED

Price Exploration Company is a partnership. The names, addresses and interest of partners, are as follows:

Harold C. Price,	P. O. Box	1111,	Bartlesville,	Oklahoma		---33-3/4%
M. L. Price,	"	"	"	"	"	---33-3/4 %
E. L. Gallery	"	"	"	"	"	--- 5%
Alton H. Rowland	"	"	"	"	"	--- 2-1/2%
Harold C. Price, Jr.		"	"	"	"	---10%
Joe D. Price	"	"	"	"	"	---10%
R. K. Shivel	"	"	"	"	"	--- 5%

EXHIBIT 3

BRIEF GEOLOGIC REPORT ON NORTH PUMPKIN BUTTES

Location and Introduction

The uranium property described in this brief report consists of 25 claims located just northeast of the Pumpkin Buttes in Campbell County, Wyoming. The claims are in T 45N., R. 75 & 76 W. The claims are identified as Utah #1 through 5, Utah #7 through 13, Colorado #1 through 5 and 7 through 10, and Arizona #1, 3, 4, 6 & 7. They are readily accessible and within 40 miles of a railroad terminal at Gillette.

Uranium deposits were found in the Pumpkin Buttes area by J. D. Love of the United States Geological Survey in October of 1951. Since the original discovery, more than 25 additional deposits have been found in the region. These deposits contain ore from low grade to more than 15.14 percent uranium oxide. The 25 claims are surrounded by a number of radioactive anomalies found by the government from the air.

STRUCTURE AND STRATIGRAPHY

The Pumpkin Buttes region is located on the west side of the Powder River Basin. No prominent geological structures are apparent and the exposed formations around the buttes are nearly flat, dipping about one degree to the southwest. The structure consists mainly of a long gentle monocline rising toward the eastern edge of the basin approximately 60 miles away. Most of the basin is covered by rocks of Paleocene and Eocene age. These early Tertiary rocks are known to reach a combined thickness of 6000 feet. The

youngest formation exposed on top of the buttes is the White River. Only 100 to 200 feet of the lower part of the formation is left. This section is composed of light yellow to tan, highly cross-bedded sandstone. The Wasatch formation is below the White River and separated from it by an erosional contact. It may be 2000 feet thick in the Pumpkin Buttes area and is exposed all around the buttes. A section of 865 feet is exposed on the south face of North Pumpkin Butte. The formation consists primarily of inter-bedded claystones, sandstones, coal beds and shales. All of the uranium deposits found to date in the area occur in the upper half of the Wasatch formation. The deposits are usually contained in a light tan, medium-grained, soft, porous, lenticular, cross-bedded, fluviatile sandstone bed about 30 to 40 feet in thickness. The deposits are not always found in the SAME sandstone bed but have a stratigraphic range of more than 700 feet. In spite of the stratigraphic range it is felt that the deposits are confined to the near surface exposures of those sandstone beds.

MINERALIZED DEPOSITS

The uranium deposits in the vicinity of the Pumpkin Buttes are of the sedimentary type, and occur as elongate bodies or rolls, or as small rich pods or concretions in sandstone lenses. The ore bodies are usually surrounded by a halo of limonite and manganese mineralization. Many exposures of uranium mineralization can be found distributed over the area, indicating that a quantity might be present below the surface. Some of the exposed mineralized

bodies are several feet in length. At one point, a silicified tree trunk, 30 feet long and 15 inches in diameter, completely replaced by uranium mineralization was observed. Uranium was found on some of the claims at several different places. Rough grab samples or specimens were taken from various spots over the claims. Analysis of these in three different lots gave the following results:

U_3O_8 (Uranium)	V_2O_5 (Vanadium)	CaO (Calcium)
17.1 %	0.40%	15.3 %
4.13%	0.89%	19.49%
25.26%	0.47%	16.42%

The uranium-vanadium minerals have not been definitely identified but probably include tyuyamunite, rauvite, renardite, and some uranophane minerals. The mineralization occurs in several stratigraphic zones over the claims, and it is possible that each claim may have more than one mineralized zone within 50 feet of the surface.

ORIGIN OF MINERALIZATION

The origin of the mineralization in the deposits around the Pumpkin Buttes is a controversial point. Some geologists contend that the eroded White River formation was the source of the uranium mineralization, and ground waters leached the uranium and carried it downward into the Wasatch formation where precipitation occurred at various horizons under the correct environmental conditions. Such a theory of origin would account for the

near-surface occurrence of the mineralization even though the host sands have a stratigraphic range of nearly 700 feet.

DRILLING PROGRAM

A drilling program is outlined below which will best explore the areas around the known surface indications of mineralization. Twenty-three areas on the 25 claims have been selected on the basis of the surface mineralization or on their favorable topographic location. It is known that the knolls are underlain by near-surface sandstones which are possible host rocks for ore deposition. Therefore, some of the knolls on which there are no outcrops are included in the drilling program.

A hexagonal drill hole pattern on a 100 foot radius covers the 23 favorable areas with each pattern containing from 10 to 34 holes, depending on its size. It is believed that depth of 40 feet per hole will be sufficient even though the stratigraphic range of mineralization, as well as the topographic relief, is much greater. The estimated hole depth is consistent with the theory that the uranium originated in the White River formation and was later leached from the eroding beds and redeposited in the underlying Wasatch in the near surface sandstones of that formation.

The drilling program, as outlined on the accompanying map, contains 493 holes at a depth of 40 feet each. Such a program amounts to 19,720 feet of drilling. In addition, to the holes

outlined it is suggested that a similar amount of footage may be required in reducing the hole spacing to 50 feet in those areas where the initial drilling penetrated mineralization of commercial thicknesses.

Twenty-three 30 foot holes have been drilled on eleven claims for validation work. These holes were not located on the most favorable claims, but the results indicated the presence of favorable sandstone host rocks and warrant the expenditure suggested by the above drilling program. One hole was drilled in 1953 in the (B) area, which penetrated 3 feet of 1% ore strongly indicating the presence of a commercial ore body.

CONCLUSIONS

The Pumpkin Buttes region is a new uranium potential area. Uranium mining developments are lacking; therefore, providing no comparison. Numerous small occurrences of uranium mineralization have been found over the region. The 25 claims described are in this general area. Uranium mineralization was found on the surface in varying amounts over many of the claims.

The abundance of uranium mineralization on the surface points to possible commercial deposits of uranium ore in the subsurface. Whether or not such deposits exist must be determined by drilling. Most of this drilling will be shallow and, therefore, relatively inexpensive.

The abundance of surface evidence for mineralization, the several different mineralized zones noted in the Wasatch

sand lenses, their occurrence near the surface, the relatively shallow drilling, and the accessibility of the claims, all give this property considerable merit, thus warranting the proposed extensive drilling and exploration program.

It is understood that $30,000. worth of ore has been removed from property to the north of the 25 claims herein described, where surface evidence for uranium mineralization was much less favorable. Still it must be said that the potential value of the 25 claims can only be established by detailed exploration work. Certainly, the chances of finding these commercial deposits are reasonably good, and the 25 claims are surely recommended for exploration by drilling, as set forth in this report.

(Signed)
W. Don Quigley
Consulting Geologist

Exhibit 4-A

TITLE DATA

CLAIM NAME	LOCATION DATE	RECORDING DATE	BOOK	PAGE
	*under P.L.#250			
Arizona No. 1	*Dec. 8, 1953	Dec. 9, 1953	4	215
Arizona No. 3	Apr. 3, 1955	Apr. 6, 1955	7	468
Arizona No. 4	"	"	7	469
Arizona No. 6	"	"	7	470
Arizona No. 7	"	"	7	471
Colorado #1	*Dec. 8, 1953	Dec. 9, 1953	4	224
Colorado No.2	* "	"	4	225
Colorado No.3	* "	"	4	226
Colorado No.4	* "	"	4	227
Colorado No.5	Apr. 3, 1955	Apr. 6, 1955	7	464
Colorado No.7	"	"	7	465
Colorado No.8	"	"	7	466
Colorado No.9	"	"	7	467
Utah No. 1	*Dec. 8, 1953	Dec. 9, 1953	4	215
Utah No. 2	* "	"	4	216
Utah No. 3	* "	"	4	217
Utah No. 4	* "	"	4	218
Utah No. 5	Apr. 3, 1955	Apr. 6, 1955	7	461
Utah No. 7	"	"	7	462
Utah No. 8	"	"	7	463
Utah No. 9	*Dec. 8, 1953	Dec. 9, 1953	4	219
Utah No.10	* "	"	4	220
Utah No.11	* "	"	4	221
Utah No. 12	* "	"	4	222
Utah No.13	* "	"	4	223

The Price Exploration Company received lease agreement from W. Don Quigley, George H. Gaul and Robert H. Miller dated Nov. 30, 1954 which was recorded in the Office of County Recorder, Campbell County, Wyoming in Book M.R.8, Page 429, May 9, 1955. See Exhibit No. 5.

The Price Exploration Company entered into a "Royalty and Surface Damage Agreement" with Charles and John Christensen, dated Feb. 7, 1955 and recorded in the Office of County Recorder, Campbell County, Wyoming, in Book_____, Page_____, _____, 1955. See Exhibit No. 6.

EXHIBIT 4-B

LEASE AGREEMENT

THIS LEASE AGREEMENT made and entered into this 30th day of November, 1954, by and between W. DON QUIGLEY, of Salt Lake City, Utah, GEORGE H. GAUL, of Palo Alto, California, and ROBERT H. MILLER, of Los Angeles, California, as Parties of the First Part (hereinafter sometimes referred to as "Lessors"), and PRICE EXPLORATION COMPANY, of Bartlesville, Oklahoma, a co-partnership, composed of H. C. Price, M. L. Price, E. L. Gallery and Alton H. Rowland, co-partners, Party of the Second Part (hereinafter sometimes referred to as "Lessees"),

W I T N E S S E T H:

WHEREAS, between May, 1952, and December 8, 1953, certain lode mining claims were staked and claimed by the Lessors under and pursuant to the United States Code, Title 30, Chapter 2, Section 23, and the Statutes of Wyoming, and in accordance with Section 17 of the act of February 25, 1920, as amended by Public Law 250, 83rd Congress, Chapter 405, and Lessors thereafter timely complied with all provisions; which claims are located in Campbell County, Wyoming, and designated specifically as follows:

Utah #1, #2, #3, and #4, located in Section 35, SE¼, Township 45 North, Range 76 West.

Arizona #1, located in Section 29, SE¼, Township 45 North, Range 75 West.

Colorado #1 and #2, and Utah #10, located in Section 28, E½, Township 45 North, Range 75 West.

Utah #9 and Colorado #3, located in Section 33, NW¼, Township 45 North, Range 75 West.

Colorado #4, Utah #11, #12 and #13, located in Section 27, SW¼, and in Section 34, NW¼, Township 45 North, Range 75 West; and

WHEREAS, the Lessors staked and filed on certain tracts of land on April 16th and 17th, 1954, under and pursuant to Domestic Circular 7 of the Atomic Energy Commission, and thereafter all provisions and requirements thereof have been complied with and fulfilled; which

tracts are located in Campbell County, Wyoming, and are specifically designated as follows:

Colorado #5, located in Section 27, SW¼ of the SW¼; and in Section 28, the SE¼ of the SE¼, Township 45 North, Range 75 West.

Colorado #7, #8, and Utah #5, #7 and #8, located in Section 28, S½, Township 45 North, Range 75 West.

Colorado #9, located in Section 33, NE¼, Township 45 North, Range 75 West.

Arizona #4, located in Section 28, SW¼ of the SW¼, and in Section 29, SE¼ of the SE¼, Township 45 North, Range 75 West.

Arizona #3 and #~~6~~ #7 DG, located in Section 29, SE¼, Township 45 North, Range 75 West.

WHEREAS, the Lessors affirm and represent that the aforementioned tracts and claims were prior stakings upon said lands and are without conflict by other locators,

NOW THEREFORE, the Lessors, for and in consideration of the rents, covenants, agreements, payments and royalties hereinafter reserved, and by the Lessees agreed to be paid, kept and/or performed, have granted, let and demised, and by these presents do grant, let and demise, unto the Lessees the aforementioned claims and tracts, making a total of twenty-four (24) claims or parts of claims.

TO HAVE AND TO HOLD said premises for the purpose of searching for, mining, extracting, milling, reducing, treating and preparing uranium, ores, metals and minerals of every kind and description, and with the exclusive right to process and work the same for said purposes for a term of ten (10) years from the date hereof, and to continue thereafter so long as actual mining operations shall, in good faith and in accordance with the covenants and agreements of this lease, be carried on on such properties, unless sooner terminated, as hereinafter provided.

In consideration of said lease, the said Lessees covenant and agree with the Lessors, as follows:

1) It is understood between the parties hereto that the Lessors by location or by assignment (See Deed and Assignment attached hereto)

are entitled to preference rights under the provisions of Public Law 585, 83rd Congress, 2nd Session, to locate mining claims upon the area covered by the Lease Applications under Circular 7, upon the said tracts of land as secondly described above. The Lessees covenant and agree at Lessees' sole cost and expense, but in the name of the Lessors or Edward W. Graham (Assignor under the Deed and Assignment attached hereto) to perform all acts necessary for the location of mining claims upon the tracts of land secondly described above, and to procure the preparation of appropriate documents, including notice of withdrawal of Lease Applications, location Certificates and other documents required in connection with the perfection of such mining claims under said preference rights; and the Lessees further covenant and agree to file and record such documents, including notice of withdrawal of Lease Applications, location Certificates and any other documents required in connection with the perfection of such mining claims under said preference rights, together with such documents and bonds as may be required by law.

Lessees agree to commence the location of such mining claims immediately upon the execution of this Lease Agreement and to fulfill all requirements of the law for such mining claims at the earliest possible date and in no event later than one hundred and twenty (120) days after the date of enactment of Public Law 585, 83rd Congress, 2nd Session, the date of the expiration of Lessors' preference rights to locate said mining claims.

The Lessors shall execute, or cause to be executed, all documents necessary or convenient for the filing and recording of said miningclaims, and the Lessors shall, if requested by the Lessees, execute such amendments to this Lease Agreement as may be necessary to subject such mining claims in all respects to the provisions of this Lease Agreement.

2) Lessees covenant and agree to perform annually such annual assessment work as is, or shall be, required under applicable State

and Federal governmental laws and regulations to keep and maintain said mining claims, and each of them, in full force and effect, and not subject to forfeiture. This will include annual assessment work for years 1953 and 1954 which was suspended temporarily, but which must be completed prior to June 1, 1955.

3) Lessees covenant and agree to defend the Lessors and the demised properties against all civil suits and injunctions which may develop as a result of Lessees' activities.

4) Lessees covenant and agree to perform the following drilling, exploration and mining operations in a good and miner-like fashion and in a manner necessary and proper to good and economical mining, and so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the same as a workable mine or mines, to wit:

a) To drill to a depth of fifty (50) feet or more at least twenty five holes per claim on at least five (5) of the claims having the best surface evidence of uranium mineralization. The holes are to be drilled and probed, using suitable radiation detection instrument, and if uranium mineralization is indicated, further holes in the immediate vicinity are to be cored in such manner as to outline the ore body.

b) To drill to a depth of approximately four hundred (400) feet one hole or more per claim on the five (5) or more claims selected to be most likely to show uranium mineralization.

c) To mine and outline the most prominent showings of surface mineralization.

d) To begin mining operations in a good and workman-like manner and according to the best engineering advice, as soon as commercial ore has been determined or outlined by the exploration and drilling operations.

e) To begin drilling and exploration operations on the above described property not later than May 1, 1955, and to complete the above described drilling and exploration program within six (6) months thereafter.

f) To conduct exploration, drilling or mining operations in good faith for a period equal to six (6) months of each year for as long as this Lease Agreement is in effect. Mining operations in good faith are defined as consisting of at least sixty (60) man shifts of work per month, plus the utilization of proper machinery normal to uranium mining operations in the Rocky Mountain area.

5) The Lessees agree to permit the Lessors or their duly authorized agent or representative at any and all times to enter upon and visit all parts of said leased premises, and to examine all drilling, exploration and mining operations, and to take samples of any ores, and Lessees further agree to make available to the Lessors all information and data obtained through exploration, drilling and mining operations.

6) The Lessors hereby expressly reserve, and the Lessees covenant and agree to pay:

a) A royalty of nine percent (9%) of the gross proceeds from the sale of any ores produced and sold from the aforementioned tracts, which gross proceeds shall include bonus moneys paid by the Atomic Engergy Commission, but shall exclude trucking and development allowances allowed under the regulations of the Atomic Energy Commission and Atomic Energy Act and Laws of the United States; and

b) An additional amount equal to twenty percent (20%) of the net proceeds (as that term is hereinafter defined) received from the sale of any ores produced and sold from the aforementioned tracts, after recoupment by Lessees of the cost actually expended by them prior to the placing of the property on production.

7) In determining the cost, as the term is used in this Lease Agreement, there shall be deducted from the amounts received by the Lessees from the sale of the minerals produced from the leased properties, including bonus moneys paid by the Atomic Energy Commission and trucking and development allowances allowed under the regulations of the Atomic Energy Commission and Atomic Energy Act and Laws of the United States, the following items only -

a) the nine percent (9%) royalty paid to Lessors,

b) the moneys actually expended by Lessees prior to placing properties on production,

c) the actual freight and/or hauling charges for transporting the ore to place of delivery to the Atomic Energy Commission or other purchaser thereof,

d) the actual cost of maintaining and operating said premises and keeping the same on production and producing the products thereof, including the cost of liability, Workmen's Compensation Insurance, and other insurance which is or may be required by law or for the protection of either or both of the parties hereto,

e) al taxes, levies, rates, assessments, fees or other governmental charges upon said leased premises or the mineral content or product thereof, or the personal property thereon used in the operation or development of the same, or which may be or become a lien thereon or be levied upon or in connection with the operation thereof,

f) amounts paid as damages resulting in the course of operations on said premises not covered by insurance,

g) the cost of geological, engineering and/or other technical advice which may be required for the proper operation of the demised premises,

h) the cost of repairing and restoring any equipment, improvements or other property destroyed or damaged by accident, the elements, or the act of God where not covered by insurance,

i) any other amounts which are properly chargeable according to good accounting practice as costs of the operation of the properties and production from the same. It is understood that charges can be made only for personnel and equipment actually employed at the property. It is not to include salaries of the partners or overhead of the Bartlesville office.

8) Lessees shall keep proper books of accounting, showing all disbursements of every kind and character made in connection with its drilling, exploration, development and operation of said premises or any part thereof, and said books of account shall, during all proper business hours, be open to the examination of the Lessors, or their duly authorized agent, and Lessors are hereby given full and free right to make a copy of said books of account or any portion thereof.

9) Lessees agree to keep said premises and every part thereof at all times free and clear of all mechanics, miners' and/or other labor or material liens or encumbrances of every nature and description, and agree to pay all indebtedness and liabilities incurred by the Lessees which may or might become a lien on said premises. A Defense Minerals Exploration Administration loan is not considered as a lien and is authorized by the Lessors if the Lessees desire to obtain such a loan.

10) All sums hereinbefore required to be paid by Lessees to Lessors from the sale of the gross products of said property shall be paid by the Lessees to the Lessors on or before the 10th day of the month following the receipt thereof, and the Lessees at such time shall furnish Lessors with a copy of the invoices covering the payments received for ore produced and shipped for which such receipts are received.

11) All such sums hereinbefore required to be paid by the Lessees to the Lessors from the "net proceeds" of the sale of the product of said property shall be paid by the Lessees to the Lessors on or before the 20th day of the calendar month succeeding

the calendar month in which receipts are received from ore produced and shipped from the demised premises.

12) Lessees agree to save the Lessors harmless from any and all accidents to Lessees or to any of their employees, sublessees, licensees, agents, associates or visitors upon the premises hereby leased.

13) Lessees agree that all operations under this lease shall be conducted so as to fully comply in every respect with the laws of the United States and of the State of Wyoming.

14) It is the contemplation and agreement of the parties hereto that such interest, title and rights as retained, or may hereafter be acquired by the Lessors, shall and will be subordinate to the leasehold rights herein granted to the Lessees upon the performance of all requirements stated herein.

15) The Lessees shall have the right to surrender this lease and agreement to the Lessors at any time after completion of the location work, provided for in paragraph 1 hereof, when not in default and encumbered by any lien or encumbrance not set forth herein, and thereby be relieved from all further liability hereunder, provided that any contemplated surrender shall be made at least ninety (90) days prior to the end of any fiscal year for which annual assessment work may be required.

16) This agreement shall be binding upon and run in favor of the successors and assigns of each of the parties hereto.

17) Unless otherwise changed by notice, in writing, the address of the Lessors for all notices and payments to be mailed to them shall be Fred W. Layman, 526 So. Center Street, Casper, Wyoming ~~609 Newhouse Building, Salt Lake City, Utah~~, and the address of the Lessees for all notices to be mailed to them shall be P. O. Box 1283, Grand Junction, Colorado.

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

L. Don Quigley

George L. Paul

Robert H. Miller.
LESSEE, Party of the First Part

HIGH [illegible]
a co-partnership

Harold C. Price
H. C. Price, Co-partner

M. L. Price
M. L. Price, Co-partner

[illegible], Co-partner

Alton T. Rowland, Co-partner

LESSEE, Party of the Second Part

STATE OF CALIFORNIA,)
) ss.
County of Los Angeles)

On this 24th day of November, 1954, before me, a Notary Public in and for Los Angeles County, State of California, personally appeared ROBERT H. MILLER, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

Notary Public in and for said County and State

My commission expires:

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

On this 6 [illegible] day of ~~December~~ February 1955 1954 , before me, a Notary Public in and for said county and state, personally appeared ~~and~~ George Gaul and W. Don Quigley, known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above writtten.

My commission expires
[illegible]

[illegible]
Notary Public
Residing at [illegible]

)
STATE OF CALIFORNIA)
) ss.
County of _____)

On this _____ day of December, 1954, before me, a Notary Public in and for said county and state, personally appeared H. C. Price, H. L. Price, E. L. Gallery, and Alton E. Rowland, whose names are subscribed to the within instrument, and acknowledged to me that they are co-partners doing business as PRICE EXPLORATION COMPANY and that they axecuted the foregoing instrument as such co-partners.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

My commission expires

_____
Notary Public

_____

Residing at _____

EXHIBIT 4-B(2)

DEED AND ASSIGNMENT

This Deed and Assignment made and entered between EDWARD W. GRAHAM, Grantor-Assignor, of Salt Lake City, Utah, and W. DON QUIGLEY of Salt Lake City, Utah, GEORGE H. GAUL of Palo Alto, California, and ROBERT H. MILLER of Beverly Hills, California, Grantees-Assignees,

W I T N E S S E T H :

WHEREAS, the Grantor-Assignor has heretofore and on April 16th and 17th, 1954, staked certain tracts of land under and pursuant to Domestic Circular No. 7, of the Atomic Energy Commission and thereafter timely complied with all provisions thereof, which tracts were located in Campbell County, Wyoming, designated as follows:

Colorado #5, located in Sec.27, SW¼ SW¼, and in Sec. 28, SE¼SE¼, T. 45 N., R. 75 W.

Colorado #6, #7, #8 and #10, located in Sec. 28., S½, T. 45 N., R. 75 W.

Colorado #9, located in Sec. 33, NE¼, T. 45 N., R.75 W.

Arizona #4, located in Sec. 28, SW¼ SW¼, and in Sec. 29, SE¼ SE¼, T. 45 N., R. 75 W.

Arizona #3 and #5, located in Sec. 29, SE¼, T. 45 N. R. 75 W.,

Utah #14 and #15, located in Sec. 25, N½ SW¼, and in Sec. 26., E.½ SE¼, T. 45 N., R. 75 W.

WHEREAS, the Grantor-Assignor affirms and represents that the aforementioned tracts were a prior staking upon said lands and are without encumbrances,

NOW, THEREFORE, in consideration of the sum of ten dollars ($10.00) and other good and valuable consideration, received from the Grantees-Assignees, receipt whereof is confessed and acknowledged, the undersigned, Grantor-Assignor, does hereby grant, bargain, sell, assign, transfer, convey and set over all of his right, title, interest, and estate of whatsoever nature, in and to the aforementioned tracts of land unto the Grantees-Assignees, together with all after-

acquired right, title, estate or possessary interest which he may acquire or to which he is entitled, giving and granting unto said Grantees-Assignees, each, all and every right, title, estate, interest or preference which the undersigned now has or may acquire under the laws of the United States, including, but not limited to Public Law 585, 83rd Congress, 2nd Session, and regulations of the Atomic Energy Commission.

The Grantor-Assignor agrees, when requested by the Grantees-Assignees, to execute all necessary documents and perform such acts as shall be appropriate, necessary or required to exercise, complete, and effect preference rights available under Public Law 585 as aforesaid, to locate the above named Tracts as mining claims, provided that the work and expense of such location shall be done and paid by the Grantees-Assignees; that when and if necessary or required by the Grantees-Assignees, the Grantor-Assignor will execute such further instruments in writing which may be necessary to completely vest in the Grantees-Assignees, all of the right thus acquired.

The right is hereby granted by the Grantor-Assignor to the Grantees-Assignees to assign all or part of their rights, title, estate, and interest acquired by this instrument but all conditions hereof shall be binding upon the heirs, successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the Grantor-Assignor has executed this Deed and Assignment this 27th day of September, 1954.

WITNESS:

George L. Cowan

Edward W. Graham
Edward W. Graham
5657 Holladay Blvd.

STATE OF UTAH :
County of Salt Lake : ss.

On this 27th day of September, 1954, there personally appeared before me, the undersigned Notary Public, Mr. Edward W. Graham, the signer of the foregoing instrument, who duly acknowledged that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

My commission expires:

Notary Public
Residing in Salt Lake, Utah

EXHIBIT 4-C

ROYALTY AND SURFACE DAMAGE AGREEMENT

THIS AGREEMENT made and entered into this 24th day of February, 1955, by and between CHARLES CHRISTENSEN and JOHN CHRISTENSEN of Gillette, Wyoming, hereinafter referred to as "Christensens," and PRICE EXPLORATION COMPANY, of Bartlesville, Oklahoma,

W I T N E S S E T H :

WHEREAS, certain mining claims were located in Campbell County, Wyoming, in the Pumpkin Buttes area in May of 1952, and in April, 1954, and these claims are located on land of which the surface rights only are owned by the Christensens and the mineral rights were retained by the Federal Government. In accordance with the United States Code, Title 30, Chap. 2, Sec. 23, and the Statutes of Wyoming, and in accordance with Sec. 7 of the Act of February 25, 1920, as amended by Public Law 250, 83rd Congress, Chap. 405, and to Domestic Circular 7 of the Atomic Energy Commission, later replaced by Public Law 585, 83rd Congress, 2nd Session, these mining claims were staked and claimed pursuant to the rights contained therein.

Certain of these mining claims were staked between May, 1952, and December, 1953, according to the above laws, being validated under Public Law 250. These claims are more specifically designated and described as follows:

Utah #1, #2, #3, and #4, located in Section 35, SE¼, Township 45 North, Range 76 West,

Arizona #1, located in Section 29, SE¼, Township 45 North, Range 75 West,

Colorado #1 and #2, and Utah #10, located in Section 28, E½, Township 45 North, Range 75 West,

Utah #9 and Colorado #3, located in Section 33, NW¼, Township 45 North, Range 75 West.

Other of the claims were staked in April, 1954, under and pursuant to Domestic Circular 7 of the Atomic Energy Commission and have been converted to regular mining claims according to Public Law 585.

These claims are described more specifically as follows:

1/4 of Colorado #5, located in Section 27, SW¼ of the SW¼, and in Section 28, SE¼ of the SE¼, Township 45 North, Range 75 West,

Colorado #7, and 3/4 of Colorado #8, and Utah #5, #7 and #3, located in Sec. 28, S½, Township 45 North, Range 75 West,

Arizona #4 and #6, located in Section 28, SW¼ of the SW¼, and in Section 29, SE¼ of the SE¼, Township 45 North, Range 75 West,

Arizona #3 and #7, located in Section 29, SE¼, Township 45 North, Range 75 west.

As before stated the Christensens own the surface rights on the above leased claims or parts of claims as noted. Together they constitute approximately 19 full claims. It is recognized that the Christensens, owners of surface rights only, have certain rights in regard to possible damages to the surface, which may be incurred during exploration and mining operations. It is the intention of this agreement to properly recompense the Christensens for these damages which may develop pursuant to future operations.

WHEREAS, the Price Exploration Company has entered into a lease agreement dated November 30,1954 with the claim owners and represent that under this agreement they have the right and responsibility to enter into an agreement with the Christensens and other surface property owners to recompense them for the damages which may develop during and pursuant to their exploration and mining operations,

NOW, THEREFORE, the Price Exploration Company agrees as follows:

1. To pay the Christensens a surface damage of $250.00 per claim, amounting to $4,750.00 for the above 19 claims. This amount is to represent all damages which may arise out of, pursuant to and as a result of exploration, discovery and preliminary development of the claims. This damage will include possible damage to the surface property over the claims, adjacent to the claims, and roads to the claims and also will include such intangible losses that might result to livestock in the area of the claims. An additional reasonable amount will be paid by Price Exploration

Company to the Christensens for damages caused by any surface excavation and earth moving which are not connected with road building, mining operations or discovery pits required by law. Tangible losses of livestock owned by the Christensens, caused by the operations of Price will be promptly paid by Price according to current market prices.

2. Price agrees to pay to the Christensens a royalty of 3% on each ore body mined or blocked out containing less than 750 tons of ore averaging less than 0.50% equivalent U_3O_8. In the event an ore body is blocked out or mined containing more than above quantity, this royalty will be increased to 6%. If any ore shipped averages more than 0.50% equivalent U_3O_8, then the royalty on that ore is 6%. The payment of this royalty to the Christensens is to represent and be payment for all damages to surface, livestock, etc. which may occur as a result of mining operations. This royalty will be paid according to the usual mining practices and will include all bonuses and premiums but excludes trucking and development allowances.

3. Price Exploration Company agrees to furnish to the Christensens a photostat copy of an abstract of all the above claims.

4. Price Exploration Company agrees to conduct its exploration and development operations in a systematic and efficient manner, keeping the damage to all surface, livestock, fences, etc. to a minimum. They agree to make sure all gates are kept closed and to disturb grazing livestock as little as possible. All core holes will be sealed with cement or bentonite up to the bottom of the first sand to prevent the escape of surface water. The Price Exploration Company agrees to consult the Christensens as to the proper location of roads, etc. to the end that there will be as little interference as possible with the use of the land by the Christensens for grazing purposes and will take steps to correct any practices not provided for herein which the Christensens consider detrimental to the use of the lands for grazing purposes.

5. The Price Exploration Company agrees that at completion of all exploration and mining activities, all excavated material will be leveled off and returned to its original form as nearly as possible.

6. At the end of operations Price Exploration Company will terminate its lease agreement with the claim owners who in turn have

represented that they will quitclaim and withdraw the described claims from the County records. This agreement is to remain effective as long as exploration and mining activities are continued.

It is agreed by the Christensens that the above payment and royalty will represent full damages to property and livestock, etc. resulting out of exploration and mining operations and that no other suits, claims or injunctions will be filed against the operators of the above described property. The Christensens further agree that they will in no way molest or impair the operations as long as they are conducted in a good and workmanlike manner.

IN WITNESS WHEREOF THE PARTIES HERETO have set their hands the day and year first hereinabove written.

Charles Christensen
Charles Christensen

John F. Christensen
John Christensen

PRICE EXPLORATION COMPANY

By Harold C. Price
Managing Partner

STATE OF WYOMING,)
) SS.
County of)

On this 7th day of ~~November, 1954~~ February 55 appeared before me a Notary Public Charles Christensen and John Christensen who acknowledged to me that they executed the same.

Notary Public

Residing at

STATE OF OKLAHOMA)
) SS:
County of Washington)

On this 14th day of ~~November, 1954~~ February, 1955, personally appeared before me a Notary Public Harold C. Price who stated he is the Managing Partner of Price Exploration Company and executed this instrument on behalf of said company by authority of the Board of Directors.

Harold C. Price
Notary Public

My commission expires 6-16-57.

Residing at Bartlesville, Oklahoma

MF-203

EXHIBIT 4-D

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Wyoming, County of Campbell, described in a Mining Lease Agreement, dated November 30, 1954 (Included in this DMEA Application) and which is being recorded in the Campbell County records, which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and Price Exploration Company, Grand Junction, Colorado, hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, (*) the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of $18,750.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 4th day of May, 1955.

"LESSORS"

Robert H. Miller
ROBERT H. MILLER

George H. Gaul
GEORGE H. GAUL

W. Don Quigley
W. DON QUIGLEY

(*) Instructions on reverse side of original form are known to us and agreed upon.

Recd with F.T.
On-Site Exam.
w/ mems F.T. Oct. 18, 1955

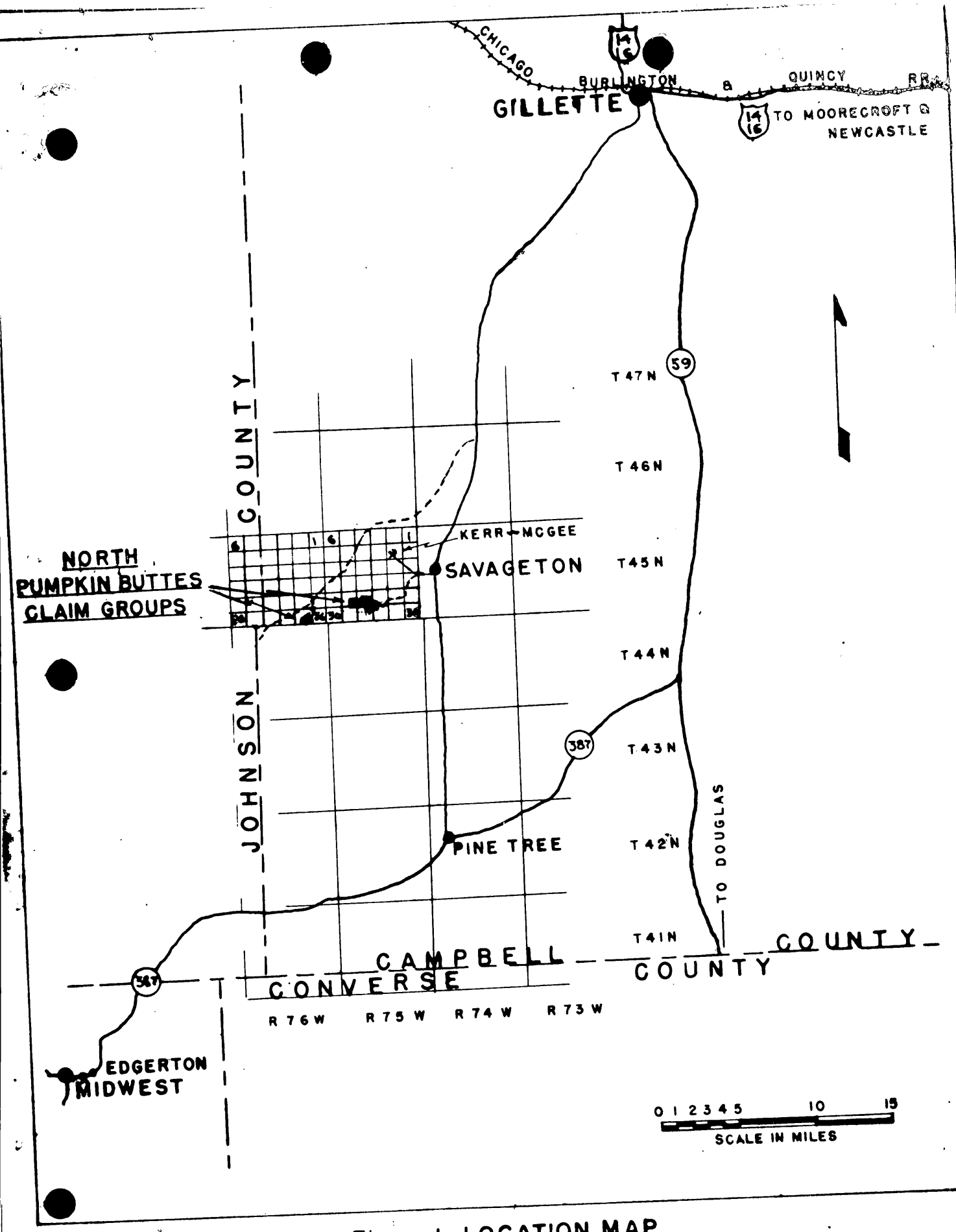
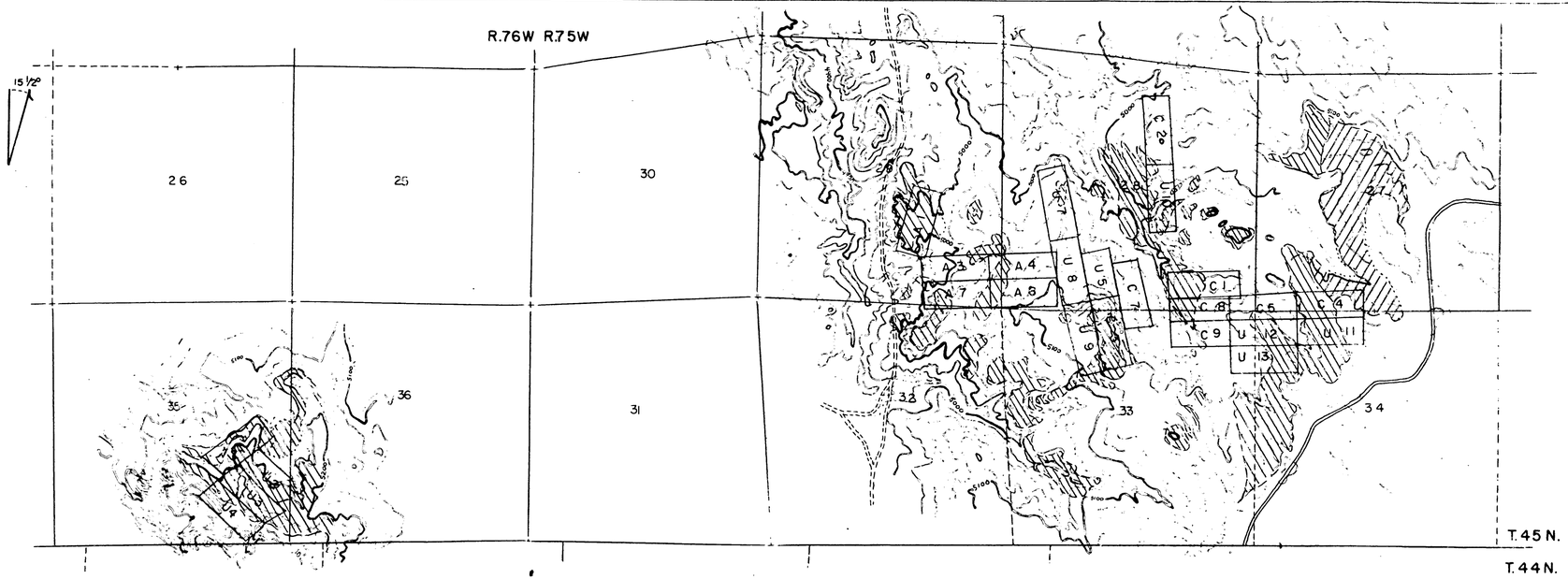


Figure I, LOCATION MAP
NORTH PUMPKIN BUTTES PROPERTY
PRICE EXPLORATION CO., CAMPBELL COUNTY, WYO. DMEA 3835



PRICE EXPLORATION COMPANY
CLAIMS AND GEOLOGY
CAMPBELL COUNTY, WYO.
AUGUST, 1955
SCALE 1:24000
CONTOUR INTERVAL 20 FEET

WASATCH FORMATION, RED SS.
WASATCH FORMATION, GRAY TO BUFF SS.

A ARIZONA CLAIM
C COLORADO CLAIM
U UTAH CLAIM

SOURCE: UNPUBLISHED U.S. GEOLOGICAL SURVEY REPORT

DOCKET NO. 3835

Figure 2

Docket
Known

Project Summary Report

By: Michael Ching Date May 16, 1958

1. Docket No. DMEA-3835 (Uranium)
   Contract No. Idm-E908

   Operator - Harold C. Price, M. L. Price, E. L. Gallery, Alton H. Rowland, Harold C. Price, Jr., Joe D. Price, and R. K. Shivel, partners, d/b/a Price Exploration Co.
   615 North First Street
   Grand Junction, Colorado

   Property - 25 unpatented lode mining claims; Arizona 1, 3-4, 6-7, Colorado 1-5, 7-9, Utah 1-5, 7-13, situated in sec. 35, T. 45 N., R. 76 W., and secs. 27, 28, 29, 33 and 34, T. 45 N., R. 75 W., 6th P.M. & B., Campbell County, Wyoming.

   Operator's Property Rights - Operator is the Lessee. Consent to Lien, dated November 16, 1955, signed by owners W. Don Quigley, George H. Gaul, and Robert H. Miller. Subordination Agreement, dated November 4, 1955, signed by John F. Christensen and Charles Christensen.

2. Contract (Long Form) dated December 22, 1955
   Final starting date - June 1, 1956
   Actual starting date - May 31, 1956
   Contract completion date - October 3, 1956
   Termination Agreement - dated June 28, 1957, effective August 1, 1956

   Work Authorized: Explore a favorable stratigraphic interval of the Wasatch formation by rotary non-core drilling.

   Stage I - 145 holes on 100-ft. centers, aggregating not more than 5,800 ft., in areas A, B, C, E, P, Q, R, V, and W.
   Stage II - 145 offset holes, minimum 50-ft. centers, aggregating not more than 5,800 ft., plus any excess from Stage I.
   Stage III - 107 holes on 100-ft. centers, aggregating not more than 4,280 ft., in areas G, H, I, O, S, T, and U.
   Stage IV - 107 offset holes, minimum 50-ft. centers, aggregating not more than 4,280 ft., plus any excess from Stage III.

   Estimated Costs:

   Actual Costs

20,160 ft. non-core drilling @ $.75/ft.	$15,120.00	
40 hrs. bulldozing @ $12.50/hr.	500.00	$15,620.00

   Fixed Unit Costs

1,000 chemical sample analyses @ $5/sample	$5,000.00	
Incidental allowance for each foot of drilling, 20,160 ft. @ $0.21/ft.	4,233.60	$ 9,233.60
Estimated Total Cost of Project (rounded)		$24,852.00
Government Participation @ 75%		$18,639.00

Amendments:

No. 1 - dated June 25, 1956. Changes Description of the Work so that drill holes will bottom in first carbonaceous blue gray shale underlying the sandstone target instead of at a maximum depth of 40 feet.

Work Completed:

Stage I - 129 holes in areas A,B,C,E,Q,P,R,V, and W.

5,489 ft. non-core drilling @ $0.75/ft.	$4,116.75
Incidental allowance, 5,489 ft. @ $0.21/ft.	1,152,69
23 chemical sample analyses @ $5/sample	115.00

Total Cost of Work Completed $5,384.44
Government Participation @ 75% $4,038.33

Final Reports Received:

Operator - dated Aug. 15, 1957, received Reg. 3 August 26, 1957
Field Team - dated March 10, 1958, received March 20, 1958

3. Auditor's Report of Review - dated September 9, 1957

Total Cost as Billed by Operator	$5,391.16
Exceptions	6.72
Total Accepted Cost	$5,384.44
Government Participation @ 75%	$4,038.33

4. Certification of Discovery - None

5. Results and Comments:

The target for the drilling was a favorable shallow-lying stratigraphic interval of the Wasatch formation of Eocene age. Work was done under the contract in Stage I only. 13 offset holes were approved for Stage II, but the Operator preferred to drill a greater number of holes for its own account and at locations of its own choosing, so none of this work was charged to the contract.

The work done under the contract resulted in two ore holes in 129. Ore reserves, based upon these two holes, amounted to 180 tons of 0.22% U_3O_8 material.

Drilling on company account prior to and during the contract period was rather extensive and, according to the company, resulted in the discovery of possibly 10,000 tons of 0.20% U_3O_8 ore. Probe results were usually found to be considerably greater than the results from chemical analyses. The company is known to have produced some 3,200 tons of about 0.25% U_3O_8 ore from land subordinated under the subject contract.

Contract assigned to [illegible] by letter assignment approved

Results from the DMEA work were largely negative and a certification of discovery is not considered justified.

Michael Ching

Michael Ching, Mining Engineer
Division of Rare and
Miscellaneous Metals

DMEA Form 17
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WORK COMPLETED ANALYSIS

After final audit or review report is received, prepare original only and file in official docket

Operator: Price Exploration Co.		Actual Cost	X
State: Wyoming		Agreed Unit Cost	
Final Report of Audit	x	Commodity: Uranium	Docket No. DMEA-3835
Final Report of Review	x		Contract No. Idm-E908

Operation	Authorized by Contract and Amendments		Completed		Net cost after sale of Government Property
	Units	Cost	Units	Cost	
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify) Rotary Non-core	20,160	19353.60	5489	5269.44	5269.44
Surface Excavation					
Underground Excavation					
Roads and Trails		500.00		—	—
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify) Chem. Analyses		5000.00		115.00	115.00
Totals (rounded)		$ 24,852.00		5384.44	* 5384.44

* Net cost total must agree with final report of audit or review.

Prepared by Michael Ching Date 5-15-58

31390

Form 7
-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/25/58	Ching	700
11/25	Kuoner	700
11-25	Chamber	800
11/26	Selfridge	120
		110
		~~105~~
11/26	C	220
		700

NOV 26 1958

Mr. George G. Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Travis:

Reference is made to your terminated exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. As all obligations of your company under the contract have been satisfied, the Government retains no claim or lien against the land that was the subject of the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

We appreciate your interest and participation in the DMEA exploration program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

FRANK E. JOHNSON

Acting Director

MChing/FEJohnson/gla
(11-20-58) 11-25-58

cc to: Director's Reading File
Mr. Ching
Division of Contract Adm. & Audit
OME Field Team, Region III (2)

Copies to:
John F. Christensen, Gillette, Wyo.
Charles Christensen, " "
W. Don Quigley, 615 Newhouse Bldg.
Salt Lake City, Utah
George H. Gaul, Gaul, Hendel & Quigley, 615 Newhouse Bldg.
Salt Lake City, Utah
Robert H. Miller, c/o Fred W. Layman
526 South Center Street,
Casper, Wyoming

8623

~~However,~~ as all obligations [illegible] consider under the con[illegible] have been satisfied, ~~and~~ the Joint retains no claim or lien against the land that was the subject of the contract or any future deduction therefrom.

DMEA Form 7
(11-56)

RECEIVED
NOV 21 1958
ASSOC. SOLICITOR
MINERAL RESOURCES

OFFICIAL FILE COPY

Date	Surname	Code
11/20/58	Ching	700
11/20	Knowlt	700
11-20	Chamber	800
		120
		110
		100
		220
		700

Mr. George G. Travis, Agent
Frise Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-8908
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Travis:

Reference is made to your terminated exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government 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 project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

We appreciate your interest and participation in the DMEA exploration program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

Acting Director

MChing/gla
11-20-58
cc to: Director's Reading File
Mr. Ching
Division of Contract Adm. & Audit
OME Field Team, Region III (2)

Copies to:
John F. Christensen, Gillette, Wyo.
Charles Christensen, " "
W. Don Quigley, 615 Newhouse Bldg., Salt Lake City, Utah
George H. Gaul, Gaul, Hendel & Quigley, 615 Newhouse Bldg., Salt Lake City, Utah
Robert H. Miller, c/o Fred W. L
526 South Center Street, Casper, Wyoming

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/20/58	Ching	700
11/20	Knoud	700
11-20	Chamberlin	800
11/26	Selfridge	120
		110
		~~100~~
		220
		700

NOV 26 1958

Mr. W. Don Quigley
615 Newhouse Building
Salt Lake City, Utah

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Quigley:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Consent to Lien signed by you on November 16, 1955, under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

FRANK E. JOHNSON
Acting Director

Enclosure

Identical letters to:
George H. Gaul, Gaul, Hendel and Quigley,
615 Newhouse Building, Salt Lake City, Utah
Robert H. Miller, c/o Fred W. Layman
526 South Center Street, Casper, Wyoming

MChing/gla
11-20-58
cc to: Director's Reading File
Mr. Ching
OME Field Team, Region III (2)

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/20/58	Ching	700
11/20	Lucas	700
11-20	Chamberlin	800
11/26	Selfridge	120
		110
		~~100~~
		220
		700

NOV 26 1958

Mr. John F. Christensen

Gillette, Wyoming

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Christensen:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Subordination Agreement signed by you on November 4, 1955, under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

FRANK E. JOHNSON

Acting Director

Enclosure

MChing/gla
11-20-58
cc to: Director's Reading File
Mr. Ching
OME Field Team, Region III (2)

Identical letter to Charles Christensen, Gillette, Wyoming

8623

OFFICE OF MINERALS EXPLORATION

224 New Customhouse
Denver 2, Colorado
October 22, 1958

Memorandum

To: T. A. Christensen

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

Subject: Docket DMEA 3835 (Uranium) Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes) Campbell County, Wyoming

Attached is a copy of a memorandum on the subject contract, dated October 14, 1958, from the OME Auditor, which shows that an overpayment in royalty of $642.06 was made by Gaul, Hendel and Quigley.

Will you please prepare a check in the amount of $642.06, made payable to George H. Gaul, W. Don Quigley and C. W. Hendel. The check should be mailed to Mr. W. Don Quigley, 615 Newhouse Building, Salt Lake City, Utah.

Original signed by
E. N. HARSHMAN

E. N. Harshman

Attachment

HMC:jy

cc: Chm. Op. Comm. (2)
Harshman
Royalty File E908
Chron.

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 24 1958

DATE	INITIALS	CODE
10/24	C	220
"	Ching	700
	J	

Paid
see October supporting schedule in Audit Division file

OME
DEPARTMENT OF THE INTERIOR
OCT 21 1958
REGION III
DENVER, COLORADO

204 New Customhouse
Denver 2, Colorado
October 14, 1958

Memorandum

To: E. N. Hartshorn, Acting Executive Officer, OME Field Team, Region III

From: Donald T. Finch, OME Auditor

Subject: Docket No. IMEA 3835 (Uranium), Contract Ldm-2968
Price Exploration Company (North Pumpkin Buttes)
Campbell County, Wyoming

Pursuant to your verbal request, I have reviewed the files of the royalty payments received from the subject company, and present the following review:

The exploration contract was dated December 22, 1955, and the contract partners consisted of H. G. Price, M. L. Price, E. L. Gallery, Alton E. Rowland, Harold G. Price, Jr., Joe D. Price and R. K. Shivel, Partners, d/b/a Price Exploration Company.

As of July 30, 1956, the interest of Price Exploration Company was acquired by George H. Saul and V. Ben Quigley.

On June 28, 1957, effective August 1, 1956, a termination agreement between the Government and Price Exploration Company was executed.

It appears that the successor organization never performed any approved or authorized work under the exploration contract.

No Certificate of Discovery or Development was ever issued. An acceptable final engineering and geologic report was received from Price Exploration Company on August 26, 1957. Under the terms of the exploration contract royalty was due the Government from production from subordinated ground for a maximum period of from December 22, 1955 to February 26, 1958.

A Report of Review in lieu of a final audit, dated September 9, 1957, indicated accepted costs of exploration of $5,384.44, with the Government's contribution on a 75 percent basis being $4,038.33.

Reference to the records of the Finance Office, GSE, Region III, reflect the following data:

Royalty payments by Price Exploration Company covering the period Dec. 28, 1955 to Aug. 1, 1956	$1,737.59
Payments by Geal, Kendal and Quigley covering the period August 2, 1956 to February 26, 1958	2,942.80
Total Royalty Payments Received	$4,680.39
Government contribution	4,038.33
Indicated overpayment by Geal, Kendal and Quigley	$ 642.06

Donald T. Finch

Donald T. Finch, GSE Auditor

DMEA REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EX RATION ADMINISTRATION

TO:	INITIALS	DATE
1. Mr. Frank Johnson	10/17	
2. ~~Mr. George Selfridge~~		
3. Mr. ~~F. L. Knouse~~		
4.		
5.		
FROM: Jay L. Chambers		10/17

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions xxx Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C. M8278

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 16 1958

DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado
October 14, 1958

Memorandum

To: E. N. Marshman, Acting Executive Officer, ~~OME Field~~ Team, Region III

From: Donald T. Finch, OME Auditor

Subject: Docket No. RMMA 3835 (Uranium), Contract 16m-R908
Price Exploration Company (North Pumpkin Buttes)
Campbell County, Wyoming

Pursuant to your verbal request, I have reviewed the files of the royalty payments received from the subject company, and present the following resume':

The exploration contract was dated December 22, 1955, and the contract partners consisted of E. C. Price, M. L. Price, E. L. Gallery, Alton H. Rowland, Harold C. Price, Jr., Joe D. Price and R. K. Shivel, Partners, d/b/a Price Exploration Company.

As of July 30, 1956, the interest of Price Exploration Company was acquired by George H. Geul and W. Ben Quigley.

On June 28, 1957, effective August 1, 1956, a termination agreement between the Government and Price Exploration Company was executed.

It appears that the successor organization never performed any approved or authorized work under the exploration contract.

No Certificate of Discovery or Development was ever issued. An acceptable final engineering and geologic report was received from Price Exploration Company on August 26, 1957. Under the terms of the exploration contract royalty was due the Government from production from subordinated ground for a maximum period of from December 22, 1955 to February 26, 1958.

A Report of Review in lieu of a final audit, dated September 9, 1957, indicated accepted costs of exploration of $5,384.44, with the Government's contribution on a 75 percent basis being $4,038.33.

Reference to the records of the Finance Office, GSE, Region III, reflect the following data:

Royalty payments by Fuler Exploration Company covering the period Dec. 22, 1955 to Aug. 1, 1956	$1,737.59
Payments by Gaul, Randal and Quigley covering the period August 2, 1956 to February 26, 1958	2,942.80
Total Royalty Payments Received	$4,680.39
Government contribution	4,038.33
Indicated overpayment by Gaul, Randal and Quigley	$ 642.06

Donald T. Finch, GSE Auditor

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/17	Fisher	800
10/17	C	220
10/20	Ching	700

Mr. Donald T. Finch
OME Auditor
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3855 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Finch:

Your special memorandum dated October 14, 1958 is approved for release to the Acting Executive Officer.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers
Contract Administration
and Audit Division

CEFisher/GMcC
October 17, 1958

cc: Docket
Director's Reading File
Mr. Chambers

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/13	Fisher	800
10/13	(✓)	220
10/14	Chiz	700

OCT 13 1958

Mr. E. N. Harshman
Acting Executive Officer
OME Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Harshman:

The copies of settlement statements forwarded with your memorandum dated October 10, 1958 were reproduced from some very poor copies of the statements furnished by W. Don Quigley. They originated with Mines Development, Inc., Farmers Union Building, Denver 3, Colorado. If you are unable to post your royalty cards from these sheets you should be able to secure the needed information locally from Mines Development or through correspondence with Mr. Quigley. The settlement statements in question are returned herewith.

With a letter dated October 8, 1958 this office forwarded to you some additional settlement statements, together with a check for $1,549.35. As this remittance results in the royalty paid now being excess of the amount of Government contribution under this contract, a refund is in order and this office no longer needs the royalty audit report or report of royalty review requested in our letters dated September 11 and 29, 1958.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers
Contract Administration
and Audit Division

Enclosures

CEFisher/GMcC
October 13, 1958

cc: Docket
Director's Reading File
Mr. Chambers

8623

224 New Customhouse
Denver 2, Colorado

10/13 Chiang 700

October 10, 1958

Orig + attachment
800

Memorandum

To: E. D. Talbert, Contract Administration and Audit Division

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

Subject: Docket DMEA 3835 (Uranium) Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes Property) Campbell County, Wyoming

Reference is made to your letter of September 29, 1958 on the subject contract and the copies of settlement sheets which were attached.

The reproduced copies of settlement sheets forwarded this office, which are attached, are illegible and we, therefore, cannot post our royalty cards. Will you please forward us a legible set of these settlement sheets for our records.

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enclosures

HMC:jy

cc: Royalty File E908
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/7	Fisher	800
		220
10/7	Selfridge	
"	Johnson	
"	Chambers	100

OCT 8 1958

Mr. E. N. Harshman
Acting Executive Officer
OME Field Team, Region III
224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

Re: Docket No. DMFA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-F908

Dear Mr. Harshman:

Enclosed herewith for deposit is Check No. 148, in the amount of $1,549.35, drawn by Price Exploration Company on First National Bank, Bartlesville, Oklahoma, together with a copy of a letter dated October 1, 1958, from Gaul, Hendel & Quigley. Also enclosed are two copies of a royalty computation statement and 21 settlement sheets furnished by Price Exploration Company.

Will you please arrange for the requested refund of amount overpaid on this contract, as determined by you.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers
Contract Administration
and Audit Division

Enclosures

CEFisher/ama
October 7, 1958

Copy to: Docket
Director's Reading File
Mr. Chambers

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/7	Fisher	800
10/7	Chambers	800
10/7	Ching Knowlse	700
10/7	Selbridge	120
"	Johnson	110
"	Mittendorf	100
10/8	C O	220
		700

OCT 7 1958

Mr. W. Don Quigley
615 Newhouse Building
Salt Lake City, Utah

Re: Docket No. DMFA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Quigley:

Thanks for your letter dated October 1, 1958, with which you enclosed Price Exploration Company's check No. 148 in the amount of $1,549.35, together with copies of settlement sheets pertaining to sales of ore on which royalty is due to the Government.

This matter is being referred to our Denver, Colorado, office with the request that the amount of overpayment be ascertained and promptly refunded.

Sincerely yours,

C. O. Mittendorf (for)

ACTING Director

CEFisher/ama
October 7, 1958

Copy to: Docket
Director's Reading File
Field Team, Region III (2)
Mr. Chambers

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/1	Fisher	800
10/1	C	220
10/2	Chang	700

OCT 1 1958

Mr. E. N. Harshman
Acting Executive Officer
OME Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-F908

Dear Mr. Harshman:

Enclosed herewith in duplicate are copies of 41 settlement statements covering proceeds from sale of uranium ore by Gaul, Hendel & Quigley aggregating $58,855.98 supporting the royalty check of $2,942.80 sent to you for deposit with letter dated September 29, 1958, from this office.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers
Contract Administration
and Audit Division

Enclosures

CEFisher/ama
October 1, 1958

Copy to: Docket w/enclosures
Director's Reading File
Mr. Chambers

Settlement Sheets in Folder #2

8623

PHONE ELGIN 9-3575

W. DON QUIGLEY

CONSULTING GEOLOGIST
URANIUM - OIL - MINING WORK
615 Newhouse Bldg. - Salt Lake City, Utah

RECEIVED OCT 6 1958		
DATE	INITIALS	CODE
10/6	C	220
		800

October 1, 1958

Mr. C. O. Mittendorf
Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D.C.

Dear Mr. Mittendorf:

Re: Docket No. DMEA-3835
(Uranium) Price Exploration Co.
Contract No. Idm-E908

We have finally received the information and data regarding Price Exploration Company's portion of the above referenced contract. This material together with their check for $1,549.35 is forwarded herewith.

According to our records, the total amount of the DMEA loan was $4,043.37. Deducting the enclosed check leaves a balance of $2,494.02. In my letter of September 24, 1958, we (Gaul, Hendel & Quigley) forwarded a check in the amount of $2,942.80. If our records are correct, we have thus overpaid the total amount of the loan by $448.78.

If your records agree with ours, we would like a return check from DMEA for the overpayment of $448.78 as soon as possible.

Sincerely,

GAUL, HENDEL & QUIGLEY

By W. Don Quigley
W. Don Quigley

Encl.
cc: Price Exploration Co.

Gov't Advance = $4,038.33

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/29	Fisher	800
9/29	Tallent	800
	Ching	700
9/30	H.L.C.	700
"	Shaver	110
"	Mittendorf	100
10/1	C	220
		700

SEP 30 1958

Mr. W. Don Quigley
615 Newhouse Building
Salt Lake City, Utah

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Quigley:

Thanks for your check in the amount of $2,942.80 and the copies of the settlement sheets accompanying your letter dated September 24, 1958, which are being referred to our Denver, Colorado, office for appropriate handling.

If any overpayment is disclosed by a future audit, you may be assured that a refund will be made promptly upon your claim.

Sincerely yours,

C. O. Mittendorf

ACTING Director

CEFisher/GMcC
Sept. 29, 1958

cc: Docket
Act. Director's Reading File
Mr. C. O. Mittendorf
Mr. Chambers
OME Field Team, Region III (2)
Mr. Donald T. Finch

8623

OFFICIAL FILE COPY

Date	Surname	Code
9/29	Fisher	800
9/29	Talbert	800
9/29	C	220
9/30	Ching	700

(FS-29) DRY FORM 1

SEP 29 1958

arshman
ive Officer
OME Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Harshman:

Enclosed herewith for deposit is Check No. 383, amount $2,942.80, drawn by W. Don Quigley on First Security Bank of Utah, together with a copy of his letter dated September 24, 1958. Copies of the settlement sheets referred to are being reproduced and will be sent to you shortly.

It would appear that a royalty audit or review should be made as requested in my letter dated September 11, 1958, to Mr. Brading so that any adjustment found to be necessary may be promptly accomplished.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert
Contract Administration
and Audit Division

Enclosures

CEFisher/GMcC
Sept. 29, 1958

cc: Docket
Act. Director's Reading File
Mr. Chambers
Mr. Donald T. Finch

Settlement Sheets in Folder #2

8623

W. DON QUIGLEY
CONSULTING GEOLOGIST
URANIUM - OIL - MINING WORK
615 Newhouse Bldg. - Salt Lake City, Utah

September 24, 1958

EXTRA COPY DMEA RECEIVED SEP 29 1958		
DATE	INITIALS	CODE
		700

Mr. C. O. Mittendorf
Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D.C.

Dear Mr. Mittendorf:

Re: Docket No. DMEA-3835
(Uranium) Price Exploration Co.
Contract No. Idm-E908

Urgent to 800

Your letter of September 12, 1958 reminded us of the Government's claim to royalty on ore mined from the property described in the referenced contract. We still feel that the property from which the ore was mined should not have been included in the contract. This certainly was not made clear to us at the time we, Gaul, Hendel and Quigley, took over the mining operations. However, there seems to have been negligence and mis-understanding by both the Government and Price Exploration Company. The contract should never have been signed as it was written.

However, it appears that we are committed and must comply with the contract. We have not taken care of this matter earlier as we were waiting to hear from Price Exploration Company in regard to the amount paid by them to DMEA, and the total amount of the loan. We did not want to pay over the total amount due.

We still have not heard from Price Exploration Company; but have decided to take care of the matter now, trusting that you will refund to us any overpayment of the loan.

Copies of all our settlement sheets are enclosed herewith. The total gross proceeds received amount to $58,855.98. The royalty of five percent claimed by DMEA against these proceeds amounts to $2,942.80. Accordingly we are enclosing a check for this amount.

Sincerely yours,

W. Don Quigley

WDQ:mo
Encl.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/11	Fisher	800
9-11	Chamber	800
9/11	Ching	700
9/11	Kupiec	700
9/11	Selbedge	120
"	Olson	100
"	Hendricks	700
9/12	C	220
		700

SEP 12 1958

Via Certified Mail
Return Receipt Requested

Mr. C. W. Hendel
Gaul, Hendel & Quigley
615 Newhouse Building
Salt Lake City 11, Utah

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Hendel:

Reference is made to my letter to you dated July 18, 1958, copy attached, pertaining to royalty due to the Government on the value of production during the period December 22, 1955, through February 26, 1958, from the property described in the referenced contract.

This Administration is charged with the responsibility of enforcing the provisions of Exploration Project Contracts, including the collection of any royalty due to the Government.

Your early submission of copies of settlement sheets, together with a substantial payment on the past-due royalty account, together with a proposal for the orderly liquidation of the balance, will be appreciated.

Sincerely yours,

C. O. Bitterman (for)

Administrator

Enclosure

CEFisher/GMcC
September 11, 1958

cc: Docket
Admr. Reading File
Field Team, Region III (2)
Mr. Chambers

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/11	Fisher	800
9/11	C	220
9/12	Ching	700

SEP 11 1958

Mr. Thomas H. Brading
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
Contract No. Idm-E908

Dear Mr. Brading:

In a memorandum to the Operating Committee dated September 5, 1958, Mr. Townsend recommends that a strongly phrased letter be sent to the Operator requesting that the matter of delinquent royalty due under the subject contract be resolved within a period of 30 days.

We do not feel that the Washington Office is in position to make a vigorous demand for settlement of the royalty account, including possible referral of the matter to the Claims Division, General Accounting Office, until such time as we are able to state the amount claimed to be due or have determined that we are unable to determine such amount. If is, therefore, desirable that a royalty audit or review be made at this time. Your letter of June 27, 1958, stated reasons for not making such audit at that time.

It is realized that you will not have time to complete such a report. However, it will be appreciated if you will call this matter to the attention of Mr. Finch and will leave with him any working papers you may have accumulated which will be of assistance in preparing the necessary report.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

CEFisher/GMcC
September 11, 1958

cc: Docket
Admr. Read. File
Field Team, Region III (2)
Mr. Chambers

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
September 5, 1958

9-8 G 220
700

Memorandum

cy to 800

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium) Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes Property) Campbell County, Wyoming

In reference to the Administrator's letter dated July 18, 1958, to the Operator, we wish to advise that to date this office has received neither the requested royalties, settlement sheets, or correspondence in any form from the Operator.

We recommend that a strongly phrased letter be prepared by your office and sent to the Operator with the statement that unless the matter of delinquent royalties is completely resolved within a period of 30 days, stringent action will be initiated to protect the interests of the Government in the matter.

The suspicions expressed in your letter of April 2, 1958, have been confirmed and it is our belief that we have been most lenient with the Operator to defer action which will protect the interests of the Government.

J. W. Townsend

J. W. Townsend

No action required by this division.
Mr. Chambers office will request an audit before proceeding further. Copy of audit request, referring to above letter, will go to Townsend.

MLC.

DMEA Form 7
(12-56)

Revision HCRubin
7/16/58

JUL 18 1958

OFFICIAL FILE COPY		
Date	Surname	Code
7/10	Ching	700
7/11	Absent-MC	700
7/18	Chambers	800
7/17	Johnson	110
17	Kirkeby	100
7/18	C	220
		700

Mr. C. W. Hendel
Gaul, Hendel & Quigley
615 Newhouse Building
Salt Lake City 11, Utah

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Hendel:

This will reply to your letter of July 7, 1958, regarding royalties due under the subject contract.

Our interpretation of the meaning of certain maps and of the events leading up to the subject contract differs from yours, although of course we do not know what the intent of the Quigleys was. We do not believe, however, that such intent has any bearing on the present situation. We can only say that, having received all the necessary data (including the results of certain drilling done subsequent to the original application), we drew a contract in the form acceptable to the Government and presented it to the Applicant, Price Exploration Company, for execution or rejection. Price Exploration Company executed the contract without question and in doing so assumed the obligations contained therein.

As stated in our letter of April 23, 1958, to Mr. Don Quigley, the land subordinated under the contract is referred to in Article 2, described in Annex I, and consists of 25 claims. The fact that certain areas were omitted from the drilling program did not exclude those areas from subordination. Any area included in a DMEA contract, or specifically excluded, would be legally described in Annex I or reference made by book and page to a description in the location notice.

It is possible that the maps referred to in the first paragraph of your letter are the same maps attached

8623

to the contract. An explanation of the background and meaning of these maps may clarify the situation for you.

The original application included maps showing 25 claims and 23 drilling areas. Each area showed the location and number of the holes to be drilled in that area. As with other applicants, the Government had to adapt these maps for use with the contract. By the time a contract was recommended by our Field Team, Price Exploration Company had drilled for its own account many of the holes shown on the maps. In drawing up the contract, consideration was given to this latest work, but the area subordinated remained the same. In adapting the maps for use with the contract, a legend was added to each map. Holes to be drilled were designated by a small circle. Holes already completed were designated by an X over the original circle. Isolated holes which were not considered necessary to the program and were to be omitted were designated by a square encompassing the original circle. Where further drilling in an area as a whole was considered unnecessary, the whole area was roughly outlined by a square or rectangle and the word "omit" printed next to it. Perhaps it is this designation which confuses you. You will note, however, that some of these areas had either no completed holes on them or only a few and, therefore, could not have been excluded because of the work already done on them, as implied in the first paragraph of your letter. As a matter of fact, some of the areas that were "omitted" from drilling were excluded by the Government because they were considered unpromising. Needless to say, the Government would never have agreed to a contract if the areas omitted from drilling were also excluded from subordination. In most cases there were no legitimate reasons for such exclusions, and contract administration would have been made difficult if discovery and certification had taken place.

In view of the foregoing, your request for an adjustment in royalty requirements must be denied. Royalty is due the Government on all production from the land described in Annex I through February 26, 1958.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MChing/izm 7/10/58
Revised HCRubin/hm 7/16/58
cc: Mr. Ching 2
Admr's reading file
Code 800
DMEA FT Reg. 3 (2)
Mr. Dwyer

DMEA Form 7
(12-56)

R

SOLICITOR

JUL 12 1958

INTERIOR DEPT.

RECEIVED

JUL 11 1958

ASSOC. SOLICITOR
MINERAL RESOURCES

OFFICIAL FILE COPY

Date	Surname	Code
7-10	Ching	760
7-11	Absent-MC	700
7-11	Chamlee	800
		110
		100
		220
		700

Mr. C. W. Hendel
Gaul, Hendel & Quigley
615 Newhouse Building
Salt Lake City 11, Utah

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Hendel:

This will reply to your letter of July 7, 1958, regarding royalties due under the subject contract.

Your interpretation of the meaning of certain maps and of the events leading up to the subject contract are not entirely accurate. We, of course, do not know what the intent of the Quigleys was, and we do not believe that such intent has any bearing on the present situation. We can only say that, having received all the necessary data (including the results of certain drilling done subsequent to the original application), we drew up a contract in the form acceptable to the Government and presented it to the Applicant, Price Exploration Company, for execution or rejection. Price Exploration Company executed the contract without question and in doing so assumed the obligations contained therein.

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8623

It is possible that the maps referred to in the first paragraph of your letter are the same maps attached to the contract. An explanation of the background and meaning of these maps may clarify the situation for you.

The original application included maps showing 25 claims and 23 drilling areas. Each area showed the location and number of the holes to be drilled in that area. As with other applicants, the Government had to adapt these maps for use with the contract. By the time a contract was recommended by our Field Team, Price Exploration Company had drilled for its own account many of the holes shown on the maps. In drawing up the contract, consideration was given to this latest work, but the area subordinated remained the same. In adapting the maps for use with the contract, a legend was added to each map. Holes to be drilled were designated by a small circle. Holes already completed were designated by an X over the original circle. Isolated holes which were not considered necessary to the program and were to be omitted were designated by a square encompassing the original circle. Where further drilling in an area as a whole was considered unnecessary, the whole area was roughly outlined by a square or rectangle and the word "omit" printed next to it. Perhaps it is this designation which confuses you. You will note, however, that some of these areas had either no completed holes on them or only a few and, therefore, could not have been excluded because of the work already done on them, as implied in the first paragraph of your letter. As a matter of fact, some of the areas that were "omitted" from drilling were excluded by the Government because they were considered unpromising. Needless to say, the Government would never have agreed to a contract if the areas omitted from drilling were also excluded from subordination. In most cases there were no legitimate reasons for such exclusions, and contract administration would have been made difficult if discovery and certification had taken place.

In view of the foregoing, your request for an adjustment in royalty requirements must be denied. We believe that the difficulties that have arisen are due to the negligence of the Operator and its failure to study the terms of the contract.

Sincerely yours,

MChing/izm 7-10-58
cc: Mr. Ching
Admr.'s Reading File
Code 800
DMEA FT Reg. 3 (2)

Administrator

GAUL, HENDEL & QUIGLEY

C. W. HENDEL
GEOLOGIST

615 NEWHOUSE BUILDING SALT LAKE CITY 11, UTAH

TELEPHONE
HU 4-4694

Thermofax made for 800

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 9 1958

DATE	INITIALS	CODE
7/9	C	220
"	Ching	700

July 7, 1958

Mr. C. O. Mittendorf
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3835 (Uranium)
Contract No. ~~dm-E908~~
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Mittendorf:

Since receipt of your letter of April 23, 1958, we have tried to locate certain maps which we felt would clear up the misunderstanding on the royalty settlement. Although we have not obtained the complete file from Price because some of their records were destroyed in floods, we do have in our files photostats sent to Price Exploration from the DMEA office, which show certain areas on the claims marked off, with the notation "omit" by these areas. Drilling was done here prior to the the signing of the contract, and it was the intent of W. Don Quigley and Darwin Quigley (W. Don Quigley was consultant, and Darwin Quigley was an employee of Price Exploration, at that time) that these areas were to be excluded from drilling and subordination to the loan. In the case of "Area F", on Colorado 1 (this particular photostat shows Colorado 1. as "Colorado 10"), a proven orebody was drilled, and no exploratory drilling was necessary; in the case of other areas marked off on the map, sufficient drilling was done so that no further exploration was warranted. One of the reasons for using "Area" terminology was for the purpose of distinguishing between parts of claims drilled on the DMEA loan. Your field men, including Mr. Cupples, could substantiate this.

Admittedly, we are in error in that apparently the signed contract did not contain exclusions. Somehow, thru an oversight on the part of Price Exploration, the contract, which was based on the original application, and did not contain amendments as a result of drilling done subsequent to the original application, was signed by Price without the Quigleys being aware of this ommision. The map referred to above was received here after the original application had been made and prior to the signing of the contract, so that the Quigleys were under the impression that this map with the excluded areas, had been made a part of the contract. This accounts for W. Don Quigley's consistent impression, as shown in letters to Mr. Traver concerning the bonus, and Mr. King, concerning the royalty settlement, that these exclusions had been made.

In our lease agreement with Price Exploration, no mention was made of any obligation to pay a royalty to DMEA on the proven "F" orebody. We did, however, assume their obligations. Our only recourse is to hold Price responsible for the royalty settlement, as the holder of the DMEA loan, and because we were not advised of the 5% royalty obligation. However we are not willing to do this because of W. Don Quigley's past association with Price, and because although Mr. Gaul and myself do not believe that Price Exploration's error can be laid to Quigley, he was involved in this misunderstanding.

We would like to ask therefore, in view of the intent which I feel is clearly shown in correspondence, as well as by conversations with field men of the DMEA, that an adjustment be made in the royalty settlement. We agree that Price erred in signing the contract as it was written, and that the application, as far as the amendments that should have been included, was not properly submitted. At the same time, we feel that the matters brought up not only in the field, but in correspondence subsequent to the original application, should have been incorporated in the contract by the DMEA, when sent to Price for their signatures.

Very truly yours,

C W Kendall

cc Mr. W. H. King
Executive Officer, DMEA
Field Team Region III
Denver, Colorado

224 New Customhouse
Denver 2, Colorado

June 25, 1958

6/30 C 220
~~Chron~~ 700
Res corker 800
File 700

Memorandum

To: Files, Region III

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

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908
Price Exploration Co., (North Pumpkin Buttes property)
Campbell County, Wyoming

Mr. George Travis visited our office today to discuss payment of delinquent royalties.

Mr. Travis expressed confusion as to the effective date for beginning royalty payments to the Government on production from the North Pumpkin Buttes property. He was referred to Article 8 of the contract, given a copy of the contract form for his reference, and reminded of the numerous letters which stated that the Government was due royalty from the date of the contract, December 22, 1955.

Mr. Travis stated he mistakenly had informed the Price Exploration Company office at Bartlesville, Oklahoma, that royalties due the Government started the date that work under the contract began. He further stated that he would advise the Bartlesville office of his mistake and that this office could expect to receive in the near future copies of settlement sheets and royalties on the unreported production.

We advised Mr. Travis to send the Washington Office, DMEA, copies of all correspondence sent to us.

Original signed by
J. W. TOWNSEND

J. W. Townsend

MHM:bh
cc: Chmn. Op. Comm.(2)
DMEA/DFC (2)
Marshman
Royalty File
Cooper
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/24	Fisher	800
6/24	Talbert	800
6-24	S. g.	220
6/25	McCluey	700
		File

JUN 24 1958

Mr. Thomas C. Brading
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Re: Idm-E908, DMEA-3835 (Uranium)
Price Exploration Company

Dear Mr. Brading:

Reference is made to Mr. Townsend's memorandum dated June 10, 1958, to the Operating Committee.

I believe that the Washington Office should now make a demand for the payment of the royalty due to the Government and should follow through with any legal action that may be deemed necessary. It is desirable that the exact amount of royalty payable to the Government be determined so that such amount may be included in the formal demand. Will you, therefore, please arrange for a royalty audit or review based on records of the A.E.C. instead of awaiting copies of the settlement sheets referred to in Mr. Travis' letter dated March 31, 1958, sent to this office with your letter dated April 7, 1958.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Director
Contract Administration
and Audit Division

CEFisher/GMcC
June 24, 1958

cc: Docket
Admr. Reading File
Mr. Chambers

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
June 10, 1958

ORIGINAL FILE COPY
DMEA
JUN 12 1958
6/12 C 220
Chrisy 700

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium) Contract Idm-E908, Price Exploration Co., (North Pumpkin Buttes property) Campbell County, Wyoming

Enclosed are the original and two copies of a letter dated June 9, 1958, from Mr. Alton H. Rowland, for action as indicated in the last paragraph of your letter of April 2, 1958.

It is of interest to note that the signatures of George H. Gaul and W. Don Quigley appear on the Consent to Lien Form. These two men are the same men who were assigned the lease by the Operator.

J. W. Townsend

J. W. Townsend

Enclosures

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 12 1958
DATE | INITIALS | CODE

LAW OFFICES
ROWLAND & ROWLAND
PRICE TOWER
BARTLESVILLE, OKLAHOMA

ALTON H. ROWLAND
LLOYD ROWLAND

TELEPHONE 4550

June 9, 1958

DMEA
DEPARTMENT OF THE INTERIOR
JUN 10 1958
REGION III
DENVER, COLORADO

J. W. Townsend
Alternate Acting
Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908, Price
Exploration Co. (North Pumpkin
Buttes Property) Campbell County,
Wyoming

Dear Mr. Townsend:

After losing its entire capitalization, Price Exploration Company assigned or released its mining claims and went out of business on July 30, 1956, your office being currently advised of the transfer of the North Pumpkin Buttes property. Our files show the DMEA Termination Agreement effective August 1, 1956.

The company has been defunct for two years. We do not have the information you desire. In these circumstances we are forwarding your inquiry to Mr. George Travis at Grand Junction, Colorado, and asking him to correspond with you. The assignees should have the information for the period subsequent to the terminal date.

Yours truly,

ROWLAND & ROWLAND

By Alton H. Rowland
Alton H. Rowland

AHR:d
cc: Mr. George Travis

Ex... Copy
D...

RECEIVED
DATE | CODE

204 New Customhouse
Denver 2, Colorado
June 10, 1958

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium) Contract Ldm-8908, Prism Exploration Co., (North Pumpkin Buttes property) Campbell County, Wyoming

Enclosed are the original and two copies of a letter dated June 9, 1958, from Mr. Alton H. Rowland, for action as indicated in the last paragraph of your letter of April 2, 1958.

It is of interest to note that the signatures of George H. Gaul and W. Don Quigley appear on the Consent to Lien Form. These two men are the same men who were assigned the leases by the Operator.

Original Signed
J. W. TOWNSEND

J. W. Townsend

Enclosures

MBM:hmh

cc: DMEA/DFC (2)
Harshman
Royalty
Townsend
Caron

w/copy of Mr. Rowland's letter of 6/9/58

LAW OFFICES
ROWLAND & ROWLAND
PRICE TOWER
BARTLESVILLE, OKLAHOMA

ALTON H. ROWLAND
LLOYD ROWLAND

TELEPHONE 4550

June 9, 1958

J. W. Townsend
Alternate Acting
Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
JUN 10 1958
REGION III
DENVER, COLORADO

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908, Price
Exploration Co. (North Pumpkin
Buttes Property) Campbell County,
Wyoming

Dear Mr. Townsend:

After losing its entire capitalization, Price Exploration Company assigned or released its mining claims and went out of business on July 30, 1956, your office being currently advised of the transfer of the North Pumpkin Buttes property. Our files show the DMEA Termination Agreement effective August 1, 1956.

The company has been defunct for two years. We do not have the information you desire. In these circumstances we are forwarding your inquiry to Mr. George Travis at Grand Junction, Colorado, and asking him to correspond with you. The assignees should have the information for the period subsequent to the terminal date.

Yours truly,

ROWLAND & ROWLAND

By Alton H. Rowland
Alton H. Rowland

AHR:d
cc: Mr. George Travis

224 New Customhouse
Denver 2, Colorado
June 10, 1958

DATE RECEIVED		CODE

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium) Contract Ism-E908, Price Exploration Co., (North Pumpkin Buttes property) Campbell County, Wyoming

Enclosed are the original and two copies of a letter dated June 9, 1958, from Mr. Alton H. Rowland, for action as indicated in the last paragraph of your letter of April 2, 1958.

It is of interest to note that the signatures of George H. Gaul and W. Don Quigley appear on the Consent to Lien Form. These two men are the same men who were assigned the lease by the Operator.

Original Signed by
J. W. TOWNSEND
J. W. Townsend

Enclosures

MHM:hmh

cc: DMEA/DFC (2)
Harshman
Royalty
Townsend
Chron

w/copy of Mr. Rowland's letter of 6/9/58

LAW OFFICES
ROWLAND & ROWLAND
PRICE TOWER
BARTLESVILLE, OKLAHOMA

ALTON H. ROWLAND
LLOYD ROWLAND

TELEPHONE 4550

June 9, 1958

J. W. Townsend
Alternate Acting
Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
JUN 10 1958
REGION III
DENVER, COLORADO

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908, Price
Exploration Co. (North Pumpkin
Buttes Property) Campbell County,
Wyoming

Dear Mr. Townsend:

After losing its entire capitalization, Price Exploration Company assigned or released its mining claims and went out of business on July 30, 1956, your office being currently advised of the transfer of the North Pumpkin Buttes property. Our files show the DMEA Termination Agreement effective August 1, 1956.

The company has been defunct for two years. We do not have the information you desire. In these circumstances we are forwarding your inquiry to Mr. George Travis at Grand Junction, Colorado, and asking him to correspond with you. The assignees should have the information for the period subsequent to the terminal date.

Yours truly,

ROWLAND & ROWLAND

By Alton H. Rowland
Alton H. Rowland

AHR:d
cc: Mr. George Travis

DMEA
5 1958

6/5 6/6 C 220 ~~[illegible]~~ 700
(Chrisy)

224 New Customhouse
Denver 2, Colorado
June 3, 1958

CERTIFIED MAIL

Mr. Alton H. Rowland
Price Exploration Company
P. O. Box 1111
Bartlesville, Oklahoma

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-8908, Price
Exploration Co. (North Pumpkin
Buttes Property) Campbell County,
Wyoming

Dear Mr. Rowland:

Thank you for your company's check in the amount of $188.24 enclosed with your letter dated May 29, 1958. The amount has been credited to your account, but not to specific production because no settlement sheets were submitted to confirm the liquidation numbers listed in your letter. We will appreciate your submitting copies of these settlement sheets with settlement sheets and royalties on all other production upon which the Government is due royalties.

The Government is due royalties on all production from land described in Annex I of Contract Idm-8908 from December 22, 1955, to February 26, 1958. Accordingly, this office will look to Price Exploration Company for their report of all production and the payment of all royalties due thereon during this stated period.

Your immediate attention to this matter is requested as we are in the process of scheduling a royalty review of the subject account.

For your information, the Atomic Energy Commission reports the following production from land included under the contract:

Colorado 1 Claim

Period	Av. V_3O_8%	Tons
4th Quarter, 1955	0.16	515
1st Quarter, 1956	0.16	485.95
2nd Quarter, 1956	0.23	385.15

Colorado 1 Claim (Cont.)

Period	Av. V_3O_8 %	Tons
3rd Quarter, 1956	0.25	415.6
4th Quarter, 1956	0.25	315
1st Quarter, 1957	0.26	215
2nd Quarter, 1957	0.24	594.48
3rd Quarter, 1957	0.26	708

Colorado 4 Claim

	0.11	46

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Alternate Acting
Executive Officer
DMEA Field Team, Region III

MHM:dp

cc: Chmn. Gp. Comm. 2) w/cy
DMEA/DFC 2) of
Harshman) mentioned
Royalty File E908) letter
Townsend)
Chron.

PRICE EXPLORATION COMPANY
HAROLD C PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

May 29, 1958

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

Dear Mr. King:

Re: Docket DMEA-3835 (Uranium) - Contract Id m - E908-
Price Exploration Co. (North Pumpkin Buttes Property)
Campbell County, Wyoming

Prior to termination of its DMEA Contract, Price Exploration Company received the following amounts for ore:

Liq. No.	Total Settlement	DMEA 5%
27	$ 998.47	$ 49.92
43	1,230.89	61.54
44	1,535.67	76.78
Totals	$ 3,765.03	$ 188.24

Price Exploration Company Check No. 189 in the amount of $188.24 is enclosed in payment of the amount above shown.

It is our understanding that Hendel, Gaul and Quigley will account for settlements received for ore from the property subsequent to their purchase of the property from Price Exploration Company and termination of the DMEA Contract.

Yours truly,

PRICE EXPLORATION COMPANY

BY: _____
Alton H. Rowland

AHR:q

VIO

FIRST NATIONAL BANK

IN BARTLESVILLE

86-82
1031

BARTLESVILLE, OKLA. MAY 29 1958 No. 189

PAY TO THE ORDER OF DEFENSE MINERALS EXPLORATION AGENCY $ 188.24

The sum of $188 and 24 cts DOLLARS

THIS CHECK IS IN FULL SETTLEMENT OF ACCOUNT AS SHOWN HEREON. ACCEPTANCE BY ENDORSEMENT CONSTITUTES RECEIPT IN FULL.

Pumpkin Butte Contract

PRICE FOUNDATION, INC.

acting id Foundation

J P Overton

LABOR - SAINT LOUIS

DMEA Form 7
(12-56)

[redacted]

OFFICIAL FILE COPY

Date	Surname	Code
4/18	Ching	700
4/28	Ellis	700
	Long	140
	Bunyan	
4/23	App'd. Sol. Off.	110
"	Hutchinson	00
4/23	C	220
		700

APR 23 1958

Mr. W. Don Quigley
Consulting Geologist
615 Newhouse Building
Salt Lake City, Utah

INTERIOR DEPT.
APR 21 1958
SOLICITOR

Re: Docket No. DMEA-3835 ~~(Uranium)~~
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Quigley:

Your letter of April 8, 1958, to our Executive Officer, Mr. W. H. King, has been referred to us for consideration and reply.

The land covered by the subject contract is referred to in Article 2 and described in Annex I. It consists of 25 unpatented lode mining claims which are listed with the book and page numbers of recordation. There are no exclusions of any parts of the 25 claims in the Annex I description.

As the consultant to Price Exploration Company and one who has worked closely with that company, you may be aware of the fact that the original application for an exploration project requested no exclusions from the 25 claims listed. Article 3 of the application form specifically instructs the applicant to "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." Furthermore, as one of the original owners you signed a Consent to Lien which listed the same 25 claims without exclusions of any sort.

The alleged exception mentioned in your letter as having been worked out by Mr. Cuppels, Mr. Binyon and Mr. Darwin Quigley was never made a part of the contract, and cannot be considered as official.

8623

You will recall that you raised the same question in a letter, dated November 19, 1956, to Mr. W. M. Traver. In that instance, however, your reference was to the "B" ore body on the Colorado 4 claim. Our letter, dated December 6, 1956, to Mr. George G. Travis explained the position of the Government then, and it is equally applicable in the present circumstance. A copy of that letter was sent to you and we now enclose a duplicate.

To assist you in understanding the Operator's obligations regarding the land and royalties on production therefrom we are enclosing a blank copy of our standard long-form contract and a duplicate of Annex I, which formed a part of the executed contract.

We hope that this letter will clarify the questions raised in your letter and enable you to get together with Price Exploration Company to settle all royalty obligations to the Government.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures

Copy to: George G. Travis, Agent
Price Exploration Company
Box 1283
Grand Junction, Colorado

MChing/izm 4-18-58
cc: Mr. Ching
Admr.'s Reading File
DMEA FT Reg. 3 (2)

SOLICITOR

APR 23 1958

INTERIOR DEPT.

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

April 9, 1958

Cy to 700

OFFICIAL FILE COPY
DMEA
RECEIVED APR 14 1958

DATE	INITIAL	CODE
4/15	D	225
"	[redacted]	700

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket DMEA-3835 (Uranium) Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes Property) Campbell County, Wyoming

It seems that your suspicions mentioned in letter, dated April 2, 1958, are confirmed.

Enclosed is a copy of a letter, dated March 31, 1958, from George G. Travis. The attitude of Mr. Travis in his visit to this office and the content of his letter of March 31, caused us to believe that disposition of delinquent royalty matters might be effected without difficulties which you suspected.

Enclosed is a copy of a letter, dated April 8, 1958, from W. Don Quigley, which causes us to believe now that an attempt is being made to confuse the issue concerning royalty payments.

The two enclosures are forwarded for your attention and reply.

E. N. Harshman

E. N. Harshman

Enclosures

DMEA
DEPARTMENT OF THE INTERIOR

APR 2 - 1958
REGION III
DENVER, COLORADO

Mar.31,1958.

Mr. W.H.King,
Executive Officer, DMEA,
224 New Customhouse,
Denver, Colo.

Re: Docket DMEA-3835 (Ur.)
Contract Idm-E908.
No.Pumpkin Buttes,
Campbell Co., Wyo.

Dear Mr. King:

Regarding your letter of Feb.27,1958, and following a conference with Mr. Connors on Mar.24th, I discussed the matter of royalty payments due DMEA, with one of our assignee's, Charles Hendel at Salt Lake. He advised that it was not their intention to shift their burden of royalty due you to Price Exploration Co., and that they would submit settlement sheets and payment for ore sold subsequent to purchase of the property from us, which was Aug.1,1956.

In regard to the amount that may be owing you from us, we have just received settlement sheets from A.S.& R. and Lucius Pitkin. We have also requested copies of settlement sheets from Mines Development Co., at Edgemont. Upon receipt of same we will furnish you three copies of those dated from May 31,1956, which was the date work commenced under DMEA contract. Accordingly, we will furnish you with data from May 31,1956 to August 1,1956, and the assignees of the property, thru Charles Hendel, will supply the data from August 1,1956 to the date they sold the property.

Very truly yours,

George G. Travis,
Box 1283,
Grand Junction,
Colo.

CY TO:
CHAIRMAN OPR COMM -2
MARSHMAN
DMEA/DFC 2
TOWNSEND
CORRESP FILE.

Royalty E908

PHONE ELGIN 9-3575

W. DON QUIGLEY

CONSULTING GEOLOGIST
URANIUM - OIL - MINING WORK

615 Newhouse Bldg. - Salt Lake City, Utah

April 8, 1958

DMEA
DEPARTMENT OF THE INTERIOR
APR 9 - 1958
REGION III
DENVER, COLORADO

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

Dear Mr. King:

Re: Docket DMEA-3835 (Uranium) - Contract Id m-E908-
Price Exploration Co. (North Pumpkin Buttes Property)
Campbell County, Wyoming

We (Gaul, Hendel and Quigley) are still confused about our liability for reimbursement of the above contract.

I have investigated the matter quite thoroughly and have questioned the Price Exploration Company personnel who were responsible for the DMEA loan and for the work accomplished under the subject contract. They tell me that there was an exception to the contract which excluded that portion of the Colorado #1 claim on which some 97 holes and two deep trenches had already been drilled and on which mining operations had already begun before the contract was approved and work began thereunder. This exception was worked out by Mr. Cuppels and Mr. Binyon, the DMEA representatives in the field, along with Mr. Darwin Quigley of Price Exploration Company. The prior work was outlined on the maps which were part of the contract.

When we took over the mining operations on the North Pumpkin Buttes property from Price Exploration Company, we understood that the present mine on the Colorado #1 claim was not subordinated to the DMEA loan, but that any new ore found on the rest of the property would be subject to the terms of the contract.

The records which we received from Price Exploration Company are not complete and we do not have a complete copy of the signed contract between DMEA and the Price partners. It would help clarification of this matter considerably if you could send us a complete copy of the subject contract.

Sincerely,

W. Don Quigley

W. Don Quigley

cc: Price Exploration Co.
Bartlesville, Okla.

IN REPLY REFER TO:

APR 8 1958

INITIALS

4/2 C 22C

4/8 Chang 70C

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

April 7, 1958

Re: DMEA 3835, Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming
Uranium

Memorandum

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

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

Subject: Review of Field Team Final Report.

The contract, awarded December 22, 1955, authorized the expenditure of $24,852.00 on a 4-stage non-core rotary drilling program in search, for the most part, of buff or drab uranium-bearing sandstone of the Wasatch formation. Company drilling had indicated or suggested ore-bearing zones and the drilling supplemented the company work.

Twenty-two groups of holes (A-W, ex J) were laid out, of which 9 groups, or parts of groups, were tested by a total of 129 holes. One hole is classed as an ore hole and 6 are mineralized. Of the company drilling, 36 generally widely scattered holes are classed as ore holes, but 3 clusters probably indicate ore bodies. The classification results from probing only, and the data are subject to correction.

Only Stage I holes totaling 5,496 feet were drilled at a cost of $5,384.44, of which amount the Government contributed $4,048.33. The contract was terminated June 28, 1957, effective as of August 1, 1956.

Information concerning reserves appears questionable as the data are considered unreliable due to the fact the radiometric probe results given are usually high. However, one of the present operators, M. D. Quigley, estimates the reserves at 10,000 tons of 0.20% U_3O_8. Production records show that 3,600 tons of about 0.25% U_3O_8 material were produced from October 1955 through September 1957. No royalty has been remitted. As only 180 tons of ore are indicated by the DMEA drilling, the examiners and Field Team recommend that certification be not imposed.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

DMEA
DEPARTMENT OF THE INTERIOR

APR 2 - 1958
REGION III
DENVER, COLORADO

Mar. 31, 1958.

Mr. W.H. King,
Executive Officer, DMEA,
224 New Customhouse,
Denver, Colo.

Re: Docket DMEA-3835 (Ur.)
Contract Idm-E908.
No. Pumpkin Buttes,
Campbell Co., Wyo.

Dear Mr. King:

Regarding your letter of Feb. 27, 1958, and following a conference with Mr. Connors on Mar. 24th, I discussed the matter of royalty payments due DMEA, with one of our assignee's, Charles Hendel at Salt Lake. He advised that it was not their intention to shift their burden of royalty due you to Price Exploration Co., and that they would submit settlement sheets and payment for ore sold subsequent to purchase of the property from us, which was Aug. 1, 1956.

In regard to the amount that may be owing you from us, we have just received settlement sheets from A.S.& R. and Lucius Pitkin. We have also requested copies of settlement sheets from Mines Development Co., at Edgemont. Upon receipt of same we will furnish you three copies of those dated from May 31, 1956, which was the date work commenced under DMEA contract. Accordingly, we will furnish you with data from May 31, 1956 to August 1, 1956, and the assignees of the property, thru Charles Hendel, will supply the data from August 1, 1956 to the date they sold the property.

Very truly yours,

George G. Travis,
Box 1283,
Grand Junction,
Colo.

CY TO:
CHAIRMAN OPR COMM -2
MARSHMAN
DMEA/DFC 2
TOWNSEND
CORRESP FILE.

Royalty E

DMEA Form 7
(12-56)

[redacted]

OFFICIAL FILE COPY

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4/1/58	Ching	700
"	Ellis	700
"	Chambers	800
4/2	GCS	130
"	Jones	110
"	Hatfield	100
4/3		220
		700

APR 2 1958

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Harshman:

Reference is made to Mr. King's letter of February 27 to the subject Operator regarding the payment of royalties.

As you know, our experience has shown that this Operator has been neither prompt nor conscientious in carrying out the terms of the contract. We suspect that further trouble will be encountered in collecting the royalties due the Government. This is based upon the fact that the Operator has assigned its lease to George H. Gaul and W. Don Quigley without expressly referring to and providing in the assignment for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof.

It appears that most of the production subject to Government royalties was made by Gaul, Hendel and Quigley. However, the latter company has disclaimed any responsibility for the payment of royalties under the subject contract.

If you have not received a satisfactory response to the February 27 letter, please advise and we will pursue the matter from this office. Royalties are due on all production from the land described in Annex I from December 22, 1955, to February 26, 1958.

MChing/gla 4-1-58
cc to: Admr.'s Reading File
Operating Committee
Mr. Ching
Contract Adm. & Audit Div.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

APPROVED:

P. F. Yopes (JHB)
Member, Bureau of Mines

N. E. Nelson (JHB)
Member, Geological Survey

8623

EA Form 7
2-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/1	Talbert	800
4/2		220
		700

APR 1 1958

Mr. Thomas H. Brading
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Re: Price Exploration Company
Contract No. Idm-E908
Docket No. DMEA-3835

Dear Mr. Brading:

I understand that the Government is due royalty under the provisions of Article 8(b)(1) of the referenced contract. Accordingly, you are requested to schedule this project for a royalty audit or review at the earliest convenient date in order that we may be in a position to make definite demands upon the Operator, and, if necessary, to refer the matter to the Attorney General of the United States.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

EDTalbert/ama
April 1, 1958

Copy to: Docket
Admr. Reading File
Mr. Chambers

8623

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DMEA
RECEIVED MAR 26 1958

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		700

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

Date March 25, 1958

DMEA Docket No. 3835
DMEA Contract No. Idm-E908
Commodity Uranium
Name of applicant Price Exploration Company
Name of property North Pumpkin Buttes Property
Location of property Campbell County, Wyoming
Estimated cost of project $5,384.44

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: James Paone, Bureau of Mines Member
Uranium Commodity Committee

Subject: Review of Final Report
(Application, Field Team Report, etc.)

1. Date of subject document: 3/14/58. 2. Date received by reviewer: 3/24/58

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. _____ ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial ☐
   d. Agree with Field Team ☒
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐
   i. Consult with Mr. _____ at _____ AEC office

10. Remarks: (Use back of page if necessary) Certification not recommended.

DMEA FORM 6 REFERENCE SLIP

F 12-56 DEFENSE MINERALS EXPLORATIC DMINISTRATION

		INITIALS	DATE
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FROM:			

FOR: Check items for action desired

____ Action ____ Reply for signature of _____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C. M8278

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

March 14, 1958

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3/26	Ching	700

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908, Price Exploration Company (North Pumpkin Buttes Property), Campbell County, Wyoming - FINAL SUMMARY REPORT

Enclosed are the original and two copies of a Joint Final Engineering and Geologic Report, dated March 10, 1958, by W. N. Sharp, Geologist, Geological Survey, and E. O. Binyon, Mining Engineer, Bureau of Mines, pertaining to work completed under the subject contract. The original and one copy of the Operator's Final Report were forwarded by memorandum of August 28, 1957.

The contract was terminated before completion of all work provided for, by a TERMINATION AGREEMENT, dated June 28, 1957, which was made effective August 1, 1956.

Final payment to the Operator was processed by this office September 23, 1957, in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, DMEA, dated September 9, 1957.

Acceptable units of work or service completed under the contract consisted of 40 hours of bulldozing time in the preparation of access roads and drill sites, and the drilling of 129 holes aggregating 5,489 feet of non-core drilling; other charges to the project incident to performance of the drilling consisted of incidental allowance on 5,489 feet of drilling and chemical analysis of 23 samples to determine U_3O_8 content; all at a total accepted cost of $5,384.44, toward which the Government contributed 75 percent, or $4,038.33.

The exploration work performed did not result in the discovery or development of a significant quantity of uranium ore.

Reviewed by
DMEA OPERATING COMMITTEE
3-24-58
(date)

FINAL F.T. REPORT

Therefore, Certification of the project is not recommended.

W. H. King

E. N. Harshman

Enclosures

WDK
H MC

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT BY FIELD TEAM
REGION III

DMEA
DEPARTMENT OF THE INTERIOR
MAR 13 1958
REGION III
DENVER, COLORADO

DMEA 3835

Contract Idm-E 908

Price Exploration Company

North Pumpkin Buttes Property

Campbell County, Wyoming

OFFICIAL FILE COPY
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RECEIVED MAR 20 1958

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Uranium

Joint Final Engineering and Geologic Report

by

W. N. Sharp, Geologist
Geological Survey

E. O. Binyon, Mining Engineer
Bureau of Mines

March 10, 1958

Reviewed by
DMEA OPERATING COMMITTEE
3-24-58
(date)

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Geology..... 6

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Modified program..... 14

Description of the work completed..... 16

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ILLUSTRATIONS

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2.	Claim map with drill holes, Price Exploration Company, North Pumpkin Buttes, Campbell County, Wyo., T. 45 N., R. 75 W., DMEA 3835, Contract Idm-E 908	54
3.	Claim map with drill holes, Price Exploration Company, North Pumpkin Buttes, Campbell County, Wyo., T. 45 N., R. 76 W., DMEA 3835, Contract Idm-E 908	54
4.	Geologic map of the Dome Butte area, Campbell County, Wyoming, Price Exploration Company, DMEA 3835, Contract Idm-E 908	54
5.	North Pumpkin Buttes area, Campbell County, Wyoming, Price Exploration Company, DMEA 3835, Contract Idm-E 908	54

ANNEXES

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II	Data on mineralized holes drilled by the operator on company account and sample data on trenches dug by the company	22
III	Data on holes drilled under DMEA Contract Idm-E 908, Docket 3835	28

DMEA 3835

Contract Idm-E 908

PRICE EXPLORATION COMPANY
NORTH PUMPKIN BUTTES PROPERTY
CAMPBELL COUNTY, WYOMING

INTRODUCTION AND SUMMARY

Price Exploration Company, a partnership, 615 North First Street, Grand Junction, Colorado, in May 1955, applied to the Defense Minerals Exploration Administration for assistance in the exploration for uranium on its North Pumpkin Buttes properties in Campbell County, Wyoming. The property was first examined on July 26, 1955, by Norman P. Cuppels, geologist, U. S. Geological Survey, and E. O. Binyon, mining engineer, U. S. Bureau of Mines, in company with M. Don Quigley, consulting geologist for the company. A second examination was made on September 6, 1957, to appraise additional data obtained in the interim by company drilling.

A modified program was recommended to explore a stratigraphic interval of about 250 feet in the central part of the Wasatch formation. A contract, Idm-E 908, dated December 22, 1955, was let. This contract provided for a four-stage program consisting of 20,160 feet of non-core rotary drilling, at an over-all estimated cost of $24,852.00, Government participation 75 percent, or $18,639.00. Work under the contract was started May 31, 1956, and 130 non-core rotary drill holes with a

total aggregate depth of 5,496 feet were drilled under Stage I; 129 holes and 5,489 feet were approved for payment. Following a recess of almost a year, the operator requested approval for Stage II drilling of 105 holes. The request was denied, but 13 holes offsetting 4 mineralized holes drilled under Stage I in area "C" were approved. The operator, however, did no drilling under this modified Stage II approval stating that the company had drilled about 40 holes in the area, and that they wished to cancel Stage II. No further work was done under the contract after June 25, 1956. The contract was terminated as of June 28, 1957.

Cost of the work completed under Stage I amounted to $5,384.44, and the Government's share at 75 percent participation was $4,038.33. Ore reserves discovered by drilling under the contract were small, only 180 tons. The company claims to have discovered and developed, by company drilling prior to and while the contract was in force, approximately 10,000 tons of 0.20 percent (plus) U_3O_8 ore in the "B" and "F" drill areas. It is concluded that the small tonnage of reserves discovered by the DMEA project drilling, is relatively insignificant, and it is questionable whether or not these reserves as well as the ore discovered by company drilling can be mined economically. Therefore, a certification of a discovery or development of the property is not recommended.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Price Exploration Company property is in two widely separated groups of claims. The easternmost group is composed of several non-contiguous blocks in T. 45 N., R. 75 W.; the westernmost group is in T. 45 N., R. 76 W., 6th principal meridian, Campbell County, Wyoming (fig. 1). The claims and their relative locations are shown on Figures 2 and 3. Gillette, Wyoming, the nearest sizeable community and a supply and labor center, is the county seat of Campbell County and a rail point on the Chicago, Burlington and Quincy railroad. The town is 32 miles by road north and slightly east of the easternmost claim group.

The property may be reached from Gillette by taking the secondary road to Savageton, a distance of 29 miles. At Savageton turn west onto a well traveled dirt road, continue 1-1/4 miles to the junction with the Innes Range road. To reach the easternmost group bear left and go 3-1/4 miles and turn right onto a fairly well traveled range road (fig. 1). Proceed through a gate and continue for about 1/4 mile in a northwest direction onto the Colorado No. 4 claim. The westernmost claim group is not accessible from the easternmost group, but is reached by way of the Innes Range road and the Willow Creek road which is about 1 mile north of the claims. As there are gates on the dirt road leading from the Willow Creek road into the claims, inquiries should be made at the Christensen Ranch as to whether the gates are locked or not.

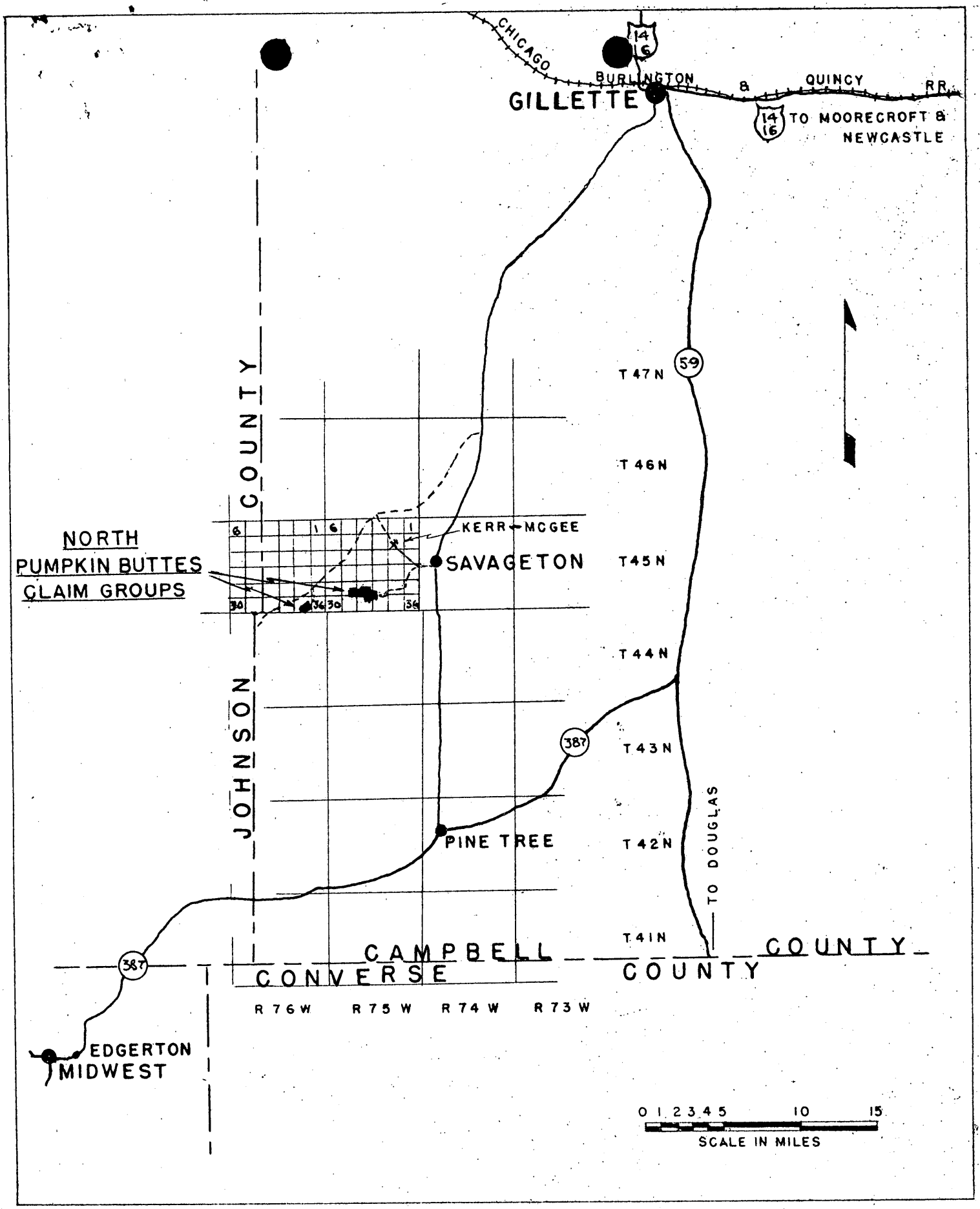

Figure I, LOCATION MAP
NORTH PUMPKIN BUTTES PROPERTY
PRICE EXPLORATION CO., CAMPBELL COUNTY, WYO. DMEA 3835

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 20 1958

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The claim area has no outstanding topographic features. In general, the altitude of the eastern claims is about 5,100 feet and the westernmost group which is on the northern slope of Dome Butte is approximately 5,200 feet above sea level. Relief is low and marked only by gently rolling hills cut by relatively shallow but broad draws.

The main sources of water supply in the area are wells and stock ponds on the nearby ranches. Arrangements must be made with individual ranchers for water and it must be hauled to the property.

No timber is found on the property or in the general area except on the flanks of the Pumpkin Buttes. Vegetation consists mainly of grasses and some cacti.

The climate permits continuous operations for about 10 months of the year. During the two or three months of winter and early spring subzero temperatures, heavy snow, and rainfall make travel and outside work difficult and costly.

At present no living facilities or mining or milling equipment are on the property.

Labor, equipment, and supplies can be obtained at either Gillette, or Casper, 42 and 88 miles, respectively, from the property.

OWNERSHIP AND EXTENT

The Price Exploration Company, a partnership with offices at 615 North First Street, Grand Junction, Colorado, holds the mineral rights on the 25 claims that make up the property, under a 10-year

lease agreement with M. Don Quigley, Salt Lake City, Utah, George H. Gaul, Palo Alto, California, and Robert H. Miller, Los Angeles, California, who obtained the property from Edward W. Graham, Salt Lake City, Utah. A request, dated October 22, 1956, for assignment of the contract from Price Exploration Company to Gaul, Hendel, and Quigley (a joint venture) was disapproved and the contract was terminated as of June 28, 1957. The property now is being worked by Gaul, Hendel and Quigley. A royalty and surface damage agreement was drawn between the operator and Charles and John Christensen, Gillette, Wyoming.

The 25 unpatented lode mining claims are known as Arizona No. 1, 3, 4, 6, and 7, Colorado No. 1 through 5 and 7, 8, and 9, Utah No. 1 through 5, and Utah No. 7 through 13. These claims occupy an area of about 493 acres, or about 23 acres less than if all claims were full size (figs. 2 and 3). The record of the claims as taken from the Courthouse in Gillette, Wyoming, is given in Annex I to this report.

HISTORY AND PRODUCTION

Early in 1952, or about six months after the discovery of uranium in the Pumpkin Buttes area, prospecting in the vicinity of the claims was undertaken. From May 1952 until December 1953, 14 of the 25 claims were located and recorded. Further prospecting continued and during 1954 and early 1955 the remaining 11 claims were located. Past work consists of discovery pits and 97 holes drilled for validation and

exploration. Between the time of the first and second examinations, 117 additional holes were drilled and three trenches were dug. Fifty-seven of these holes were drilled for validation of the claims and 60 holes were drilled in the "F" drill area on the Colorado No. 1 claim (fig. 2). The operator estimated that an ore body 300 by 300 feet in area, and 10 feet thick had been developed by this drilling. In two letters dated July 11 and October 10, 1956, the operator stated that mining operations were in progress on the "F" and "B" and "C" ore bodies (fig. 2), and in the letter of July 11, four shipments of 50 tons each were mentioned. However, in a letter dated November 19, 1956, it was stated that no mining had been done up to that date. A review of the A.E.C. production records for the Price Exploration Company shows that from October 1955 through September 1957 a total of about 3,600 tons of about 0.25 percent U_3O_8 ore were produced from the Colorado No. 1 claim. About 46 tons had been mined from the Colorado No. 4 claim. To date, the operator has not submitted settlement sheets on any shipments that may have been made from the property. Royalty payments have been requested from the operator.

GEOLOGY

Regional features

The Powder River Basin is underlain for the most part by stream-deposited clastic rocks assigned to the Wasatch formation of Eocene age.

Unconformably overlying the Wasatch and capping the Pumpkin Buttes are remnants, less than 100 feet thick, of very coarse-grained silica-cemented sandstone and conglomerate of the White River formation of Oligocene age. Older rocks that underlie the Wasatch are exposed around the periphery of the basin.

Rocks of the Wasatch formation form the major part of the Pumpkin Buttes area. The formation is about 1,200 feet thick, and about one-third of this interval is quartz-feldspar sandstone. The sandstone occurs in lenses that range from 500 feet to several miles in width, from 1 to 8 miles in length, and from 10 to 100 feet in thickness. Such lenses are dispersed at random throughout a sequence of drab siltstone, claystone, and carbonaceous shale and coal beds.

The sandstone generally is poorly sorted, ranging from very fine- to coarse-grained, and friable or only poorly cemented with calcite. Fragments of coalified wood and clay pebbles generally are scattered throughout the sandstone lenses. Sandstone concretions, the so-called cannon-balls or pumpkins, from which the buttes get their name, are a characteristic feature of the sandstone. The concretions comprise sand grains cemented with calcite; they range from spheres a quarter of an inch to 3 feet in diameter to cigar-shaped masses 30 feet long.

Most of the sandstone lenses in the vicinity of the buttes are in whole or in part pink or reddish. This coloring contrasts sharply with the buff to gray sandstone in the Wasatch formation in other parts of

the Powder River Basin. In effect red sandstone in the Wasatch formation of the basin is restricted to a definable zone that is elongate and overlies generally the structural axis of the basin. The "red sandstone zone" extends from about 15 miles north of Douglas in the southern part of the basin to several miles north of the Pumpkin Buttes in the central part of the basin.

Several hundred uranium occurrences including many minable deposits are known in the Wasatch formation of the basin. The deposits are found in drab sandstone along or near irregular contacts with red sandstone. In the Pumpkin Buttes area the "red sandstone zone" and the uranium deposits are in the lower part of the exposed Wasatch interval or the middle part of the complete Wasatch section. Without exception, the major uranium deposits that have been mined in the basin are along a color change in sandstone units that are very near the boundary of the "red sandstone zone".

The deposits consist largely of yellow uranium minerals: tyuyamunite, carnotite, and uranophane. The minerals are unevenly disseminated in the sandstone. At places the deposits contain small concretionary masses of uraninite and pyrite-cemented sandstone; these are commonly rimmed by thick halos of yellow oxidized minerals. The pyrite and uraninite appear to have been localized by coalified wood fragments. Black nodules and irregular masses of manganese-oxides occur near and at the surface of many deposits. Some of these masses contain yellow uranium minerals,

and a few small deposits consist almost entirely of such uraniferous manganese-oxide concretions. Joints and small iron-oxide lined fissures in sandstones of the deposits are commonly coated or speckled with light yellow, yellow-orange, and greenish secondary uranium minerals.

Local features

The Price Exploration Company property is separated roughly into two units. The western component, including the claims Utah 1, 2, 3, and 4, overlie a group of sandstone capped ridges that extend northward from the base of Dome Butte (fig. 4). A lower sandstone unit crops out about 20 feet below the capping sandstone unit. The sandstone that caps the ridges is a continuously reddish sandstone and contains numerous manganese-oxide nodules with associated secondary uranium minerals. Most of the drilling in the area explored the upper sandstone unit. Several holes particularly those in Utah 1 claim cut the lower unit. With the exception of three holes in the Utah No. 2 claim, where one sample of several taken contained 0.20 percent eU_3O_8, no ore-grade material was found by drilling in this area.

The eastern group of claims covers parts of an area of low sandstone capped ridges and knolls (fig. 5). At least three major sandstone units and several minor ones crop out in the interval of Wasatch

formation exposed in the area. Most of the sandstone units are continuously red, as are those in the western group of claims, and a number of uranium occurrences, predominantly manganese-oxide concentrations with associated uranium minerals, are exposed. Occurrences of disseminated uranium minerals are small.

The sandstone changes to buff or drab near the eastern edge of this group of claims and close to this color change ~~is~~ are located the best deposits of uranium (fig. 5). On the Colorado 4 and Utah 11 claims several closely related deposits of ore-grade material were found within 20 feet of the surface (fig. 2). Drilling in the area of claims, Colorado 4 and Utah 11, was largely Stage I DMEA, and was intended to extend the ore-bearing zone located by company drill holes. The drilling on the Utah 11 claim in drill area "C" (fig. 2) was partly successful and a mineralized zone appeared to extend eastward. Offset drilling under Stage II was authorized around four holes in the area but was not acceptable to the operator. The results of about 40 company holes put in subsequently have not been received by DMEA.

On the Colorado 1 claim the company located, by drilling and trenching, a small ore body in a sandstone unit lower in the section than that explored by drilling on the Colorado 4 and Utah 11. This deposit also is at a color change in the sandstone.

Drilling authorized by DMEA in other areas on the eastern part of the Price Exploration Company property was not completed. Company drill

hole data indicated that deposits were made up of small and disconnected pods of ore-grade material, and as a consequence not readily minable.

ORE RESERVES

No actual estimate of ore reserves developed by company drilling on the "F" ore body, Colorado No. 1 claim and the "B" ore body on the Colorado No. 4 claim have been submitted by the operator. However, he has estimated the reserves at approximately 10,000 tons of 0.20 percent U_3O_8 plus ore. (Letters from M. D. Quigley.)

In calculating the reserves developed by the company, the A.E.C. method was used but was modified so that the area of influence was extended only 12.5 feet from the holes instead of the usual 25 feet for indicated ore. For inferred ore the blocks were increased to 37.5 feet from the indicated ore blocks or joined when two or more mineralized holes were opposite each other.

From the available data the ore reserves (developed by the company) in the "B," "F," "V," and "M" areas are as follows:

Area	Indicated ore			Inferred ore		
	Thickness (feet)	Grade % U_3O_8	Short tons	Thickness (feet)	Grade % U_3O_8	Short tons
"B"	9.7	0.522	1,293	9.7	0.387	3,436
"F"	14.8	0.286	3,615	14.8	0.291	17,099
"V"	-	-	-	1.0	0.200	45
"W"	1.5	0.101	134	1.5	0.112	389
Totals and average	8.6	0.342	5,042	6.8	0.303	20,969

The data from which the above reserves are calculated are not reliable; the radiometric probe results are invariably high, in some places as much as 400 to 500 percent. In hole C-9 between 9.0 and 11.0 feet the probe results show an average grade of 0.975 eU_3O_8; the chemical assay of the cuttings from this interval was 0.335 percent U_3O_8. Such discrepancy is not an exception, the same results are repeated in all of the "C" area holes and it is assumed that the probe results from the "B" and "F" drill areas would be in error by about the same amount. Fourteen chemical assays were taken of the cuttings from holes F-21, F-26, and F-30 and 14 samples from the trenches were also assayed chemically with about the same radiometric to chemical ratio. Based on the above it is reasonable to assume that the grade and thickness should be reduced and less tonnage of ore reserves are on the property than indicated.

Of the 129 holes drilled under the DMEA contract, ore-grade material was indicated, by probe results, in 4 holes in area "C". Chemical assays of the cuttings in only 2 of the 4 holes, however, were of a grade of 0.1 percent U_3O_8 or better. Ore reserves discovered by the contract drilling are as follows:

Hole no.	Depth (feet)	Mineralized depth (feet)	Thickness (feet)	Grade % U_3O_8	Indicated ore (short tons)	Inferred ore (short tons)
C-9	35	9-11	2.0	0.335	--	90
C-21	31	9-11	2.0	0.100	--	90
		Totals and averages	2.0	0.218		180

The ore reserves are calculated by the A.E.C. method except that the area of influence was reduced, that is, the distances from holes was taken at 12.5 feet instead of the usual 25 feet because most of the deposits are small disconnected pods or lenses with a limited lateral extent.

THE PROJECT

Original Project Proposal

The proposal of a single-stage program was made by the applicant to explore, by auger or plug bit drilling and a few core holes, 23 drill-areas on 20 of the 25 claims included by the property. A hexagonal grid pattern was proposed with the holes spaced on 100-foot centers. Four

hundred ninety-three holes were to be drilled to a maximum depth of 40 feet which comprised 19,720 feet of drilling. Of the 493 holes, 23 holes (one in each area) or 920 feet were to be core drilled. No offset drilling was proposed, but a closer hole-spacing was suggested by the applicant for those areas where the initial drilling results were favorable. Also the suggestion was made that footage remaining in an unfavorable area would be transferred to any other favorable area. The estimated costs of the proposed program was $24,708.50 of which the Government's share at 75 percent participation amounted to $18,531.37.

Modified Program

A modified two-stage program including two phases under each stage, one for the initial drilling and one for offset drilling around mineralized holes was recommended. Under Stage I, Phase I, 145 holes with a total drilling footage of not more than 5,800 feet were to be drilled in areas A, B, C, E, F, P, Q, R, V, and W. The drilling pattern and hole spacing were to be the same as proposed in the application; a hexagonal pattern and 100-foot spacing. Stage I, Phase II was to consist of 145 holes, 40 feet deep, offset around mineralized holes of Phase I at a spacing of 50 feet from the Phase I holes.

Stage II drilling was made dependent upon the results of Stage I and it was also divided into two phases. Stage II, Phase I was to be the initial drilling in areas G, H, I, O, S, T, and V, and consisted of

107 holes with a total depth of 4,280 feet. The same pattern and spacing as holes of Stage I, Phase I was to be used. Under Stage II, Phase II 107 offset holes having a total depth of 4,280 feet were to be drilled around the mineralized holes of Stage II Phase II. The total drilling footage proposed for both stages of the recommended program was 20,160 feet. No core drilling was recommended. Estimated costs of the program were as follows:

Non-core rotary drilling, 20,160 feet at $0.70/ft.	$14,112.00
Bulldozer work, 4 days at $100.00/day plus $50.00 move in	450.00
Incidental allowance, 20,160 ft. at $0.276/ft.	4,356.50
Chemical assays, 1,000 samples at $6.00/ea.	6,000.00
Total estimated cost	$24,918.50

The contract, as signed, stipulated that the work was to be done in four stages, Stage I, II, III, and IV. Stages I and III were to include the initial drilling in the areas designated under Phases I of Stages I and II as outlined under the recommended program, and Stage II and IV would be offset drilling as designated for the second phases of the Stages I and II under the recommended program.

The estimated costs under the contract are given below:

Independent Contracts

Non-core rotary drilling, 20,160 feet at $0.75/ft.	$15,120.00
Bulldozer work, 40 hours at $12.50/hr.	500.00

Incidental allowances

(Fixed cost) 20,160 ft. at $0.21/ft.	$ 4,233.60

Chemical Assays

(Fixed cost) 1,000 samples at $5.00/ea.	5,000.00
Estimated total cost of the project (rounded)	$24,852.00
Government participation at 75 percent	$18,639.00

Amendment No. 1 dated June 25, 1956, permitted drilling to the first carbonaceous blue [sic] shale below the sandstone member of the Wasatch formation that was to be explored. The estimated depth was 70 feet but the average depth of all holes was expected to remain at about 40 feet. The amendment provided for no change in the cost of the project or the amount to be contributed by the Government.

Description of the Work Completed

Drilling under the contract was started May 31, 1956, and continued until June 25, 1956, at which time Stage I was completed. Total drilling amounted to 5,496 feet drilled in 130 non-core rotary drill holes in drill areas A, B, C, E, Q, P, R, V, and W. One hole, No. R-13 was drilled to a depth of 7 feet and was disallowed as being incompleted. As a consequence, the total allowable footage was 5,489 feet. Total expenditures under the contract amounted to $5,384.44 and the Government's share of these expenditures at 75 percent was $4,038.33.

No other work was done under the contract. The operator, however, did submit a request to drill 105 holes under Stage II to define the eastern limits of the area "C" mineralization, discovered by Stage I drilling. The request was not considered within the terms of the contract and was denied, but 13 holes, as offsets to holes C-9, 15, 19, and 21, were approved. The operator chose not to accept this modification and no further drilling under the contract was done.

A summary of the acceptable costs incurred under the contract is as follows:

Stage I

Non-core rotary drilling, 5,496 ft. at $0.75/ft.		$ 4,122.00
Bulldozer work		none
Incidental allowances, 5,496 ft. at $0.21/ft.		1,154.16
Analyses, 23 samples at $5.00/ea.		115.00
Total expenditures		$ 5,391.16
Less drilling hole R-13, 7 ft. at $0.75/ft.	$5.25	
Incidental allowance 7 ft. at $0.21/ft.	1.47	
		6.72
Total expenditures allowed		$ 5,384.44
Government participation at 75 percent		$ 4,038.33

The mineralized holes drilled by the company as indicated by probe results and chemical analyses are listed in Annex II. Also listed are the results of the samples taken in the three trenches on the "F" ore

body on the Colorado No. 1 claim. In Annex III, hole data and lithology of the holes drilled under the contract are given.

SUMMARY OF FACTUAL DATA

Exploratory drilling completed and accepted under Stage I of the contract consisted of 129 holes with an average depth of 42.6 feet or a total footage of 5,489 feet. The total cost of the drilling was $5,384.44 and the Government's share at 75 percent amounted to $4,048.33.

Of the 129 holes drilled, only four holes in the "C" area were mineralized and of these only 2 holes, C-9 and C-21 (by chemical analyses) showed ore-grade (0.1 percent U_3O_8 or better) material.

The operator's request to drill 105 holes under Stage II was denied but 13 offset holes around mineralized holes C-9 and 15, 17, and 21 were approved. These holes were not drilled and there was no work done under Stage II.

CONCLUSIONS AND RECOMMENDATIONS

The drilling under the contract did not result in the discovery of any significant deposits, although significant reserves, as indicated by probe results, may have been discovered by drilling on company account in drill areas B, F, and C. The total reserves discovered by company, as calculated from probe results, amounted to 5,042 tons of indicated ore with a grade of about 0.34 percent eU_3O_8,

and the reserves discovered by drilling under the contract was 180 tons of inferred ore with a grade of about 0.22 percent U_3O_8. The ore reserves discovered by company drilling should be reduced in both grade and tonnage because of the great difference between the radiometric probe results and chemical analyses. Also it is doubtful that the pods and lenses that compose the ore zone can be mined economically. A certification of a discovery does not appear warranted and is not recommended.

ANNEX I

Record of claims, Price Exploration Company
DMEA Docket 3835, Contract Idm-E 908

Claim	Book	Page
Arizona No. 1	4	215
" " 3	7	468
" " 4	7	469
" " 6	7	470
" " 7	7	471
Colorado No. 1	4	224
" " 2	4	225
" " 3	4	226
" " 4	4	227
" " 5	7	464
" " 7	7	465
" " 8	7	466
" " 9	7	467
Utah No. 1	4	215
" " 2	4	216
" " 3	4	217
" " 4	4	218
" " 5	7	461
" " 7	7	462

ANNEX I (continued)

Claim	Book	Page
Utah No. 8	7	463
" " 9	4	219
" " 10	4	220
" " 11	4	221
" " 12	4	222
" " 13	4	223

ANNEX II

Data on mineralized holes drilled by the operator on company account and sample data on trenches dug by the company

Drill area or claim	Hole No.	Depth feet	Depth of mineralization	Probe results % eU_3O_8	Chemical analyses % U_3O_8
Colorado No. 9	"A"	27	10	0.04	
			17	0.05	
			18	0.04	
B	B-8	18	12	0.04	
			13	0.04	
			14	0.10	
			15	0.04	
	B-10	23	4	0.10	
			5	0.12	
			6	0.18	
			7	0.16	
			8	0.22	
			9	0.26	
			10	0.30	
			11	0.40	
			12	0.65	
			13	0.70	
			14	0.85	
			15	0.85	
			16	0.65	
B	B-16	27	13	0.06	
			14	0.07	
			15	0.09	
			16	0.08	
			17	0.07	
			18	0.10	
			19	0.11	
			20	0.10	
			21	0.10	
			22	0.20	
			23	0.05	
			24	0.03	
			25	0.05	

ANNEX II (contined)

Drill area or claim	Hole No.	Depth feet	Depth of mineralization	Probe results % eU_3O_8	Chemical analyses % U_3O_8
B	B-17	27	10	0.06	
			11	0.10	
			12	0.15	
			13	0.18	
			14	0.19	
			15	0.25	
			16	0.75	
			17	0.30	
			18	0.10	
C	C-13	29	1	0.04	
			2	0.13	
			3	0.04	
			4	0.05	
			5	0.03	
			6	0.05	
			7	0.13	
			8	0.05	
			10	0.03	
F	F-1	28	10	0.03	
			12	0.06	
			13	0.13	
			14	0.03	
F	F-7	26	7	0.04	
			8	0.08	
			9	0.04	
F	F-10	25	10	0.05	
			12	0.05	
			13	0.10	
			14	0.20	
			15	0.22	
			16	0.18	
			17	0.20	
			18	0.10	
			20	0.05	
			25	0.05	

ANNEX II (continued)

Drill area or claim	Hole No.	Depth feet	Depth of mineralization	Probe results % eU_3O_8	Chemical analyses % U_3O_8
F	F-17	31	5	0.09	
			6	0.10	
			7	0.11	
			8	0.12	
			9	0.15	
			10	0.17	
			11	0.17	
			12	0.20	
			13	0.20	
			14	0.18	
			15	0.18	
			16	0.20	
			17	0.22	
			20	0.24	
			21	0.26	
			22	0.30	
			23	0.30	
			24	0.30	
			25	0.40	
			26	0.41	
			27	0.34	
			28	0.38	
			29	0.52	
			30	0.50	
			31	0.48	
F	F-20	26	5	0.08	
			7	0.12	
			8	0.13	
			9	0.15	
			10	0.18	
			11	0.21	
			12	0.20	
			13	0.22	
			14	0.30	
			15	0.40	
			16	0.43	
			17	0.48	
			18	0.56	
			19	0.53	
			20	0.49	
			21	0.48	

ANNEX II (continued)

Drill area or claim	Hole No.	Depth feet	Depth of mineralization	Probe results % eU_3O_8	Chemical analyses % U_3O_8
F	F-20	26	22	0.50	
			23	0.40	
			24	0.30	
			25	0.40	
			26	0.60	
F	F-21		25-26	0.10	0.03
			29-30	0.70	0.12
			31-32	0.60	0.04
F	F-21		35-36	0.30	0.02
F	F-24	21	3	0.05	
			4	0.07	
			5	0.10	
			6	0.11	
			7	0.13	
			8	0.12	
			9	0.15	
			10	0.18	
			11	0.23	
			12	0.22	
			13	0.28	
			14	0.32	
			15	0.43	
			16	0.49	
			17	0.48	
			18	0.60	
			19	0.60	
			20	0.52	
			21	0.58	
F	F-26		1	0.04	
			2	0.05	
			3	0.09	
			4	0.10	
			5	0.20	
			6	0.22	
			7	0.30	
			8	0.28	

ANNEX II (continued)

Drill area or claim	Hole No.	Depth feet	Depth of mineralization	Probe results % eU_3O_8	Chemical analyses % U_3O_8
F	F-26		9	0.20	
			10	0.25	0.05
			11	0.20	0.33
			12	0.20	
			13	0.20	
			14	0.25	
			15	0.30	0.26
			16	0.35	0.15
			17	0.45	
			18	0.35	
			19	0.40	
			20	0.50	
F	F-30		11-12	0.30	0.02
			17-18	1.00	0.005
			18-19	1.20	0.02
			19-20	1.42	0.07
			20-21	1.55	0.18
			22-23	1.07	0.01
K	K-6	24	15	0.05	
			16	0.06	
K	K-7	13	7	0.06	
			9	0.06	
V	V-11		15	0.03	
			16	0.20	
V	V-18		7	0.03	
W	W-6	15	4	0.04	
			5	0.15	
			6	0.08	
			7	0.10	
W	W-10	40	7	0.06	
			8	0.13	
			9	0.07	

ANNEX II (continued)

Trench	Sample No.	Cut in feet From	To	Chemical analyses % U_3O_8
No. 1	CC-1	10	11	0.38
Penco No. 1	CC-7	13	19	0.17
	CC-9	10	11	0.21
	CC-10	11	12	0.81
	CC-11	5	6	0.68
	CC-11	11	12	0.10
	CC-12	5	6	0.20
Penco No. 3	CC-1	10	11	0.002
Price No. 1	CC-4	4	5	0.19
	CC-5	5	6	0.22
Price Trench No. 1	CC-4	6	7	1.93
Price Trench No. 1	CC-3	10	11	1.70
Price Trench No. 1	CC-4	7	8	0.66
	CC-3	15	16	0.16

ANNEX III

Data on holes drilled under DMEA Contract Idm-E 908, Docket 3835

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
A-1	49	47.2	0-5	Brn. Sdy. soil		No count	
			5-28	Tn. to Gy. Tn.			
			28-37	Gy. Tn. Shy Ss.			
			37-46	Yel. Tn. Ark. Ss.			
			46-47	Blk. Carb. Sh.			
			47-49	Bl. Gy. Sh.			
A-2	59	57.8	0-3	Brn. Sdy. soil		No count	
			3-17	Lt. Tn. Ss.			
			17-39	Yel. Tn. to Yel. Brn. Ark. Ss.			
			39-50	Yel. Orange Ark. Ss.			
			50-53	Bl. Gy. Sh.			
			53-59	Bl. Gy. Ss.			
A-3	57	55.3	0-3	Tn. Sdy. soil		No count	
			3-11	Gy. Tn. MF Ss.			
			11-23	Yel. Tn. M. Ark. Ss.			
			23-39	Brn. Yel. Ss.			
			39-55	Yel. M. Ark. Ss.			
			55-57	Bl. Gy. Sh.			
A-4	43	41.4	0-4	Brn. Sdy. soil		No count	
			4-39	Gy. Tn. F. to M. Ark. Ss.			
			39-41	Gy to Tn. Sdy. Sh.			
			41-43	Bl. Gy. Sh. & Ss.			
A-5	39	38.1	0-5	Brn. Sdy. soil		No count	
			5-13	Brn. Tn. F. G. Ss.			
			13-26	Tn. to Yel. Tn. M. G. Ark. Ss.			
			26-37	Gy to Tn. Slst. & Sh.			
			37-39	Bl. Gy. Sh. & Ss.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
A-6	33	31.3	0-3	Brn. Sdy. soil		No count	
			3-13	Gy. Tn. F. to M. G. Ss.			
			13-15	Yel. Ark. Ss.			
			15-25	Gy. to Tn. mud galls & Ss.			
			25-27	Yel. Tn. Ark. Ss.			
			27-29	Lt. Gy. Sdy. ls.			
			29-33	Bl. Gy. Sh.			
A-7	59	52	0-2	Tn. Sdy. soil		No count	
			2-17	Gy. Tn. F. G. Ss.			
			17-39	Yel. Gy. M. F. G. Ark. Ss.			
			39-56	Yel. Tn. M. G. Ss.			
			56-58	Yel. Ss. w/ Mud galls			
			58-59	Coal			
A-8	67	57.8	0-13	Gy. Tn. F. G. Ss.		No count	
			13-14	Gy. to Br. Mud galls			
			14-17	Yel. M. G. Ark. Ss.			
			17-62	Tn. to Lt. Brn. M.F.G. Ss.			
			62-63	Blk. Carb. Sh.			
			63-67	Bl. Gy. Ss.			
A-9	49	47.7	0-1	Sdy. soil		No count	
			1-11	Gy. Tn. F. G. Ss.			
			11-17	Yel. M. G. Ark. Ss.			
			17-43	Tn. M. F. G. Ss.			
			43-44	Yel. clay			
			44-49	Bl. Gy. Sh.			
A-10	39	37.6	0-4	Brn. Sdy. soil		No count	
			4-15	Gy. Tn. to Brn. Tn. F. G. Ss.			
			15-31	Yel. Tn. M. G. Ark. Ss.			
			31-37	Gy. Tn. Slty. Sh.			
			37-39	Bl. Gy. Sdy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
A-11	59	56.6	0-1	Sdy. soil		No count	
			1-11	Gy. Tn. F. G. Ss.			
			11-17	Yel. Tn. M. G. Ss.			
			17-29	Yel. M. G. Ark. Ss.			
			29-56	Yel. Tn. M. G. Ss.			
			56-58	Mud galls			
			58-59	Blk. coal & Gy. Sh.			
A-12	67	62	0-3	Sdy. soil		No count	
			3-7	Gy. Tn. F. G. Ss.			
			7-31	Yel. to Yel. Tn. M. G. Ark. Ss.			
			31-37	Gy. Tn. M. F. G. Ss.			
			37-53	Yel. Tn. M. G. Ark. Ss.			
			53-64	Brn. Yel. M. G. Ark. Ss.			
			64-66	Blk. coal			
			66-67	Bl. Gy. Sh.			
A-13	45	39.1	0-1	Sdy. soil		No count	
			1-13	Gy. Tn. F. G. Ss.			
			13-44	Yel. Tn. M. G. Ark. Ss.			
			44-45	Bl. Gy. Sh.			
A-14	39	37	0-2	Sdy. soil		No count	
			2-12	Tn. F. G. Ss.			
			12-13	Gy. Sdy. ls.			
			13-21	Tn. F. G. Ss.			
			21-37	Yel. Tn. M. G. Ark. Ss.			
			37-39	Yel. to Gy. Sh.			
A-15	39	36.2	0-3	Sdy. soil		No count	
			3-7	Brn. M. F. G. Ss.			
			7-23	Gy. Tn. to Yel. Tn. M. G. Ss.			
			23-39	Vrg. Sh. & Ss.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
A-16	55	52.6	0-3	Sdy. soil		No count	
			3-19	Lt. Tn. M. F. G. Ss.			
			19-25	Yel. Tn. Ark. Ss.			
			25-31	Tn. M. F. G. Ss.			
			31-54	Yel. Tn. Ark. Ss.			
			54-55	Gy. Sh.			
A-17	65	65	0-3	Sdy. soil		No count	
			3-19	Tn. M. F. G. Ark. Ss.			
			19-25	Yel. Orange Ark. Ss.			
			25-30	Lt. Brn. M. F. G. Ss.			
			30-32	Lt. Gy. Sdy. Ls.			
			32-48	Yel. Brn. Ark. Ss.			
			48-49	Lt. Gy. Sdy. Ls.			
			49-53	Lt. Brn. Ss.			
			53-54	Lt. Gy. Sdy. Ls.			
			54-62	Yel. Brn. Ss.			
			62-63	Gy. Carbon Sh.			
			63-65	Bl. Gy. Sh. Some Ss.			
A-18	42	40.3	0-1	Sdy. soil		No count	
			1-17	Gy. Tn. F. G. Ss.			
			17-40	Yel. to Gy. Yel. M. G. Ark. Ss.			
			40-42	Lt. Gy. Sdy. Ls.			
				(Hard - can't penetrate)			
A-19	43	41.7	0-12	Gy. Tn. F. G. Ss.		No count	
			12-29	Yel. Tn. M. G. Ark. Ss.			
			29-30	Lt. Gy. Sdy. Ls.			
			30-35	Brn. Yel. to Yel. Ark. Ss.			
			35-39	Dk. Tn. Ss.			
			39-41	Gy. Sh.			
			41-43	Bl. Gy. Sh. & Ss.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Dample data Radiometric % eU_3O_8	Chemical % U_3O_8
A-20	39	36.0	0-5	Sdy. soil		No count	
			5-13	Lt. Tn. V. F. G. Ss.			
			13-29	Yel. Tn. M. G. Ark. Ss.			
			29-31	Ss. as above with mud galls			
			31-33	Yel. Tn. Ark. Ss.			
			33-37	Gy. to Brn. Sh. with Ss.			
			37-39	Bl. Gy. Sh. & Ss.			
A-21	51	47.1	0-4	Sdy. soil		No count	
			4-12	Tn to Yel. Tn. Ss.			
			12-14	Lt. Gy. Sdy. Ls.			
			14-31	Tn. M. G. Ark. Ss.			
			31-32	Rd. Sh.			
			32-39	Lt. Brn. Ss.			
			39-48	Yel. Ark. Ss.			
			48-51	Bl. Gy. Sh.			
A-22	55	52.1	0-2	Sdy. soil		No count	
			2-13	Lt. Gy. Tn. F. G. Ss.			
			13-35	Yel. to Yel. Brn. Ark. Ss.			
			35-38	Gy. Sdy. Ls.			
			38-52	Yel. Brn. M. G. Ss.			
			52-55	Bl. Gy. Sh.			
A-23	45	45.1	0-2	Sdy. soil		No count	
			2-5	Lt. Gy. Ss. w/intb. Gy. Sh.			
			5-17	Tn. F. G. Ss.			
			17-20	Yel. Ark. Ss.			
			20-22	Gy. Sdy. Ls.			
			22-32	Yel. Ark. Ss.			
			32-34	Gy. Sdy. Ls.			
			34-36	Yel. Ark. Ss.			
			36-38	Gy. Sh.			
			38-41	Tn. M. F. G. Ss.			
			41-45	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
A-24	39	38.4	0-3	Sdy. soil		No count	
			3-15	Lt. Tn. F. G. Ss.			
			15-36	Yel. Tn. Ark. Ss.			
			36-39	Gy. Tn. Sh.			
A-25	33	32.1	0-3	Sdy soil		No count	
			3-25	Lt. Tn. to Brn. Tn. Ss.			
			25-27	Yel. Ark. Ss.			
			27-29	Tn. Ss.			
			29-33	Gy. Sh.			
B-1	25	24	0-2	Lt. Br. Sdy. silty soil		No count	
	6' water		2-5	Lt. Pk to Tn. Ark. Sd.			
			5-13	Gy. Tn. Sh., Ls. @ 10'			
			13-17	Bl. Gy. Sh.			
			17-19	Gy. Tn. Sh.			
			19-25	Bl. Gy. Sh.			
B-6	69	66.7	0-5	Brn. Sdy. Sh.		No count	
			5-14	Yel. Tn. Ark. S. S.			
			14-19	Gy. to Tn. Sh.			
			19-22	Bl. Gy. Ss.			
			22-28	Tn. F. G. Ark. Ss.			
			28-29	Tn. Shale			
			29-39	Tn. F. G. Ark. Ss.			
			39-40	Yel. Tn. Cr. Ark. Sd. S.			
			40-41	Bl. Gy. Shale			
			41-45	Intbd. Gy. Ss. and Sh.			
			45-53	Gy. F. G. Ss.			
			53-54	Gy. Sh.			
			54-56	Blk. Carb. Sh.			
			56-69	Lt. Gy. Cr. G. Ss.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data Interval (feet)	Radiometric % eU_3O_8	Chemical % U_3O_8
B-7	19 7' water	18	0-1	Br. Sdy. soil		No count	
			1-10	Lt. Pk. to Tn. Ark. Sd.			
			10-19	Gy. Bl. Sh.			
B-18	19	17.4	0-3	Brn. Sdy. soil		No count	
			3-11	Gy. Tn. M-F Ark. Ss.			
			11-13	Gy. Tn. Cr. Ark. Ss.			
			13-15	Gy. Tn. M. Ark. Ss.			
			15-16	Orange Ss.			
			16-19	Bl. Gy. Sh.			
B-19	21	19.8	0-3	Brn. Sdy. soil		No count	
			3-8	Gy. tn. M-F Ark. Ss.			
			8-9	Gy. to Br. Sh.			
			9-15	Gy. to Tn. Sh.			
			15-19	Gl. Gy. Sh. with Bl. Ls.			
			19-21	Bl. Gy. Sh.			
B-20	37	34	0-1	Br. Sdy. soil		No count	
			1-7	Gy. Tn. Sh.			
			7-13	Buff Slty. Sh.			
			13-20	Yel. Tn. Silty Shly. Fn. Mic. Sd.			
			20-22	Bl. Gy. Sh.			
			22-25	Yel. Tn. Slty. Shly. Fn. Mic. Sd.			
			25-28	Pk. Gy. Fn. Sd.			
			28-30.5	Gy. Br. Sh. w/carbon			
			30.5-33	Yel. Tn. Slty. Shly. Fn. Mic. Sd.			
			33-37	Bl. Gy. Sh.			
B-21	19	18	0-2	Br. Sdy. soil	15.0 to 15.5	0.01	
			2-15	Lt. Pk. to Rd. Ark. Sd.	13.5 to 15.0	0.02	
				Bl. Sh. to 7'	12.5 to 13.5	0.04	
				Br. Yel. @ bottom	12.0 to 12.5	0.02	
			15-19	Bl. Gy. Sh.	11.5 to 12.0	0.01	

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data Interval	Radiometric % eU_3O_8	Chemical % U_3O_8
B-26	27	26	0-1	Tn. Sdy. soil		No count	
			1-3	Lt. Pk. Ark. Sd.			
			3-11	Gy. Tn. Sh.			
			11-15	Yel. Tn. Sdy. silty Sh.			
			15-23	Fn. Yel. Tn. Mic. Sd.			
			23-27	Bl. Gy. Sh.			
B-27	19	18	0-2	Tn. Sdy. soil	4.5 to 5.0	0.05	
			2-4	Pk. Ark. Sd.	4.0 to 4.5	0.07	
			4-11	Buff to Gy. Tn. Sdy. Sh.	3.0 to 4.0	0.03	
			11-15	Yel. Tn. Shly. Fn. Sd. Yel.Sd. bot. 1'	1.5 to 3.0	0.01	
			15-19	Bl. Gy. Sh.			
B-28	51	48	0-3	Dk. Brn. Sdy. soil		No count	
			3-5	Rd. Brn. Slty. Sd.			
			5-10	Gy. Tn. Sdy. Slty. Sh.			
Stopped before shale- 10' water blew out top hole.			10-15	Lt. Tn. Fn. Slty. Shly. Sd.			
			15-22	Gy. Tn. Sdy. Sh.			
			22-33	Lt. Tn. Fn. Ark. Sd.			
				3' Yel. Tn. @ 27'			
				0.5 Bl-Gy. Sh. @ 29'			
				3' Tn. @ 31'			
				1' Gy. Tn. Sh. @ 34'			
			33-36	Lt. Gy. Sdy. Ls.			
			36-51	Yel. Tn. Fn. Ark. Sd.			
B-29	69	39	0-4	Br. Sdy. soil		No count	
			4-8	Gy. Tn. Fn. Sd.			
			8-27	Gy. Tn. Sdy. Sh.			
			27-35	Lt. Tn. Fn. Ark. Sd.			
Hole bridged off at 39'				2' Ox. Yel. @ bottom	33.0 to 37.0	0.02	
			35-37	Gy. Brn. Sdy. Sh.			
			37-62	Lt. Tn. to Yel. Tn. Ark. Sd.			
			62-66	Tn. Sd. w/some carbon			
			66-69	Pk. Gy. Brn. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data: Interval (feet)	Radiometric % eU_3O_8	Chemical % U_3O_8
C-1	17	16.3	0-1	Sdy. soil		No count	
			1-8	Pk. Ark. Ss.			
			8-17	Gy. Grn. Sh.			
C-2	21	21	0-18	Pk. M. F. G. Ark. Ss.		No count	
			18-21	Gy. Tn. Sh.			
C-3	25	25	0-1	Rd. Brn. Sdy. soil		No count	
			1-21	Pk. M/F. G. Ss.			
C-4	39	39	0-7	Rd. Brn. Sdy. soil		No count	
			7-12	Pk. Ark. Ss.			
			12-19	Gy. Tn. Sdy. Sh.			
			19-21	Tn. Ss.			
			21-34	Gy. to Tn. Sdy. Sh.			
			34-36	Tn. Ss.			
			36-39	Bl. Gy. Sh.			
C-5	11	11	0-3	Gy. Tn. F. G. Ss.		No count	
			3-11	Gy. Grn. to Tn. Sdy. Sh.			
C-6	11	11	0-1	Sdy. soil		No count	
	Mineralization		1-8	Rd. Brn. M. F. G. Ss.			
	Next to surface		8-11	Bl. Gy. Sh.			
C-7	15	14	0-3	Pk. Tn. M. G. Ark. Ss.			
	No count in cuttings		3-5	Rd. Brn. Ark. Ss.			
			5-9	Gy. to Bl. Gy. Sh.	4.5 to 6.0	0.03	
	Located on surface mineralization		9-15	Gy. Tn. Silty Sh.			
C-8	23	21.5	0-18	Pk. F. to V. F. G. Ark. Ss.		No count	
			18-21	Grn. Tn. Sh.			
			21-23	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data Interval (feet)	Radiometric % eU_3O_8	Chemical % U_3O_8
C-9	25	25	0-3	Rd. Brn. Sdy. soil	2.5 to 3.5	0.03	
			3-8	Yel. Tn. F. G. Ss.	3.5 to 4.0	0.08	
			8-10	Pk. F. G. Ss.	4.0 to 4.5	0.07	
	Carnotite ---		10-12	Yel. M. F. G. Ss.	4.5 to 5.0	0.10	
			12-14	Rd. M. F. G. Ss.	5.0 to 5.5	0.16	
			14-22	Tn. M. G. Ss.	5.5 to 6.0	0.35	
			22-25	Bl. Gy. Sh.	5.0 to 6.0		.002
					6.0 to 6.5	0.65	
					6.5 to 7.0	0.65	
					6.0 to 7.0		.003
					7.0 to 8.0	0.35	.002
					8.0 to 9.0	0.30	.02
					9.0 to 9.5	0.60	
					9.5 to 10	1.15	
					9.0 to 10		.31
					10.0 to 10.5	1.50	
					10.5 to 11.0	0.65	
					10 to 11		.36
					11.0 to 11.5	0.55	
					11.5 to 14.0	0.50	
					11 to 12		.01
					12- to 13		.01
					14.0 to 14.5	0.55	
					13 to 14		.03
					14.5 to 15.0	0.30	
					14 to 15		.03
					15.0 to 17.0	0.20	
					15 to 16		.003
					17.0 to 18.0	0.15	
					16 to 17		.01
					18.0 to 20.0	0.10	
					20.0 to 25.0	0.06	
C-10	11	10	0-2	Sdy soil			
			2-11	Grn. Gy. clay			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data: Interval (feet)	Radiometric % eU_3O_8	Chemical % U_3O_8
C-15	31	30.5	0-7	Pk. F. G. Ss.	21.5 to 23.0	0.02	
			7-23	Gy. Tn. M. F. G. Ss.	23.0 to 24.0	0.05	
			23-28	Yel. Tn. F. G. Ss.	24.0 to 24.5	0.10	
			28-31	Bl. Gy. Sh.	24.5 to 25.0	0.12	
					25.0 to 27.0	0.20	
					25.0 to 26.0		.002
					27.0 to 27.5	0.08	
					26.0 to 27.0		.003
					27.5 to 30.5	0.04	
C-16	19	18.2	0-5	Rd. Brn. to Pk. F. G. Ss.		No count	
			5-13	Gy. Tn. Sdy. Sh.			
			13-15	Lt. Gy. Sdy. Ls.			
			15-19	Lt. Gy. Tn. Sdy. Sh.			
C-17	10	18.8	0-3	Brn. Sdy. soil		No count	
			3-5	Pk. F. G. Ss.			
			5-11	Rd. Pk. Crs. Ark. Ss.			
			11-14	Gy. Grn. Sh.			
			14-16	Rd. Brn. M. G. Ss.			
			16-19	Bl. Gy. Sh.			
C-18	25	24.8	0-3	Brn. Sdy. soil			
			3-14	Pk. M. G. Ss.	22.7 to 23.2	0.03	
			14-16	Lt. Gy. Sdy. Ls.			
			16-18	Pk. M. G. Ss.			
			18-23	Tn. to Brn. M. G. Ss.			
			23-25	Bl. Gy. Sh.			
C-19	31	29.8	0-5	Pk. Brn. F. G. Ss.	19.0 to 19.5	0.05	
			5-7	Tn. F. G. Ss.	19.5 to 20.0	0.08	
			7-21	Pk. M. F. G. Ss.	20.0 to 20.5	0.10	
			21-28	Tn. to Yel. Tn. M. F. G. Ss.	20 to 21		.002
					20.5 to 21.0	0.20	

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data: Interval (feet)	Radiometric % eU_3O_8	Chemical % U_3O_8
C-19 (con't)			28-31	Bl. Gy. Sh.	21.0 to 21.5	0.30	
					21.0 to 22.0		.003
					21.5 to 22.5	0.40	
					22.0 to 23.0		.003
					22.5 to 23.0	0.30	
					23.0 to 24.0		.01
					23.0 to 25.0	0.23	
					24.0 to 25.0		.04
					25.0 to 26.0	0.20	.002
					26.0 to 27.0	0.08	
					27.0 to 29.0	0.60	
C-20	11	10.7	0-8	Pk. F. G. Ss.		No count	
			8-11	Gy. Grn. Clay			
C-21	31	26.7	0-5	Pk. F. G. Ss.	7.0 to 7.5	0.12	
			5-13	Intb. Pk. Ss. & Lt. Gy. Ls.	7.5 to 8.0	0.07	
			13-15	Yel. Tn. Crs. Ark. Ss.	8.0 to 8.5	0.10	
			15-28	Rd. Brn. M. G. Ss.	8.0 to 9.0		.04
			28-31	Bl. Gy. Sh.	8.5 to 9.0	0.22	
					9.0 to 9.5	0.40	
					9.0 to 10.0		.10
					9.5 to 10.0	0.35	
					10.0 to 10.5	0.20	
					10.0 to 11.0		.10
					10.5 to 11.0	0.62	
					11.0 to 11.5	0.08	
					11.5 to 12.0	0.02	
					12.0 to 26.7	0.00	
C-22	29	27	0-7	Tn. F. G. Ss.		No count	
			7-13	Pk. M. G. Ss.			
			13-16	Yel. Pk. M. G. Ss.			
			16-25	Pk. M. G. Ss.			
			25-26	Brn. M. G. Ss.			
			26-29	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
E-5	55	53/3	0-5	Tn. M. F. G. Ark. Ss.		No count	
			5-9	Pinkish Rd. M. F. G. Ss.			
			9-17	Reddish Pk. M. G. Ss.			
			17-33	Orange Brn. Crs. G. Ark. Ss.			
			33-52	Rd. Brn. M. G. Ark. Ss.			
			52-53	Coal			
			53-55	Gy. Sh.			
E-6	11	11	0-2	Brn. Sdy. soil		No count	
			2-6	Tn. F. G. Ss.			
			6-9	Tn. to Grn. Sh.			
			9-11	Grn. & Rd. Sh.			
E-7	19	17	0-10	Rd. Brn. M. G. Ss.		No count	
			10-13	Grn. to Yel. clay			
			13-15	Rd. Brn. Sdy. clay			
			15-18	Grn. & Rd. Sh.			
			18-19	Bl. Gy. Sh.			
E-8	19	18.7	0-1	Tn. Ss.		No count	
			1-4	Pk. Limy Ss.			
			4-17	Rd. Brn. M. G. Ss.			
			17-19	Gy. grn. Sh.			
E-9	37	36.4	0-3	Tn. F. G. Ss.		No count	
			3-11	Gy. Tn. M. G. Ss.			
			11-13	Rd. Brn. M. G. Ss.			
			13-18	Yel. Tn. M. G. Ss.			
			18-22	Rd. Brn. M. G. Ss.			
			22-23	Yel. M. G. Ss.			
			23-26	Rd. Brn. M. G. Ss.			
			26-28	Grn. Gy. Sh.			
			28-32	Rd. Brn. M. G. Ss.			
			32-34	Yel. to Rd. Sh.			
			34-37	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
E-10	61	60	0-1	Sdy. soil		No count	
			1-11	Pinkish Tn. M. G. Ark. Ss.			
			11-18	Orange Pk. M. G. Ark. Ss.s			
			18-19	Lt. Gy. Sdy. Ls.			
			19-27	Brn. Pk. M. G. Ark. Ss.			
			27-33	Rd. Brn. M. G. Ark. Ss.			
			33-43	Orange Brn. M. G. Ark. Ss.			
			43-44	Tan Sdy. Ls.			
			44-48	Rd. Brn. M. G. Ss.			
			48-55	Lt. Brn. M. F. G. Ss.			
			55-57	Gy. to Yel. Clay			
			57-59	Gy. Ls.			
			59-61	Gy. Sh.			
E-11	67	63.8	0-1	Sdy. soil		No count	
			1-15	Pinkish Tn. M. F. G. Ss.			
			15-23	Reddish Pk. M. G. Ss.			
			23-25	Lt. Gy. Sdy. Ls.			
			25-31	Reddish Pk. M. G. Ss.			
			31-41	Orange Rd. Cr. G. Ark. Ss.			
			41-61	Reddish Brn. M. F. G. Ss.			
			61-65	Bl Coal			
			65-67	Bl. Gy. Sh.			
E-12	55	50.5	0-5	Sdy. soil		No count	
			5-27	Rd. Pk. M. F. to M. G. Ark. Ss.			
			27-35	Yel. Tn. M. G. Ark. Ss.			
			35-43	Rd. Pk. F. G. Ss.			
			43-45	Same with clay galls			
			45-50	Rd. Brn. M. G. Ss. with clay galls			
			50-52	Coal			
			52-55	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
E-13	17	16.2	0-3	Brn. Sdy. soil		No count	
			3-7	Tn. F. G. Ss.			
			7-9	Gy. Sdy. Sh.			
			9-11	Gy. to Rd. Shy. Ss.			
			11-15	Tn. V. F. G. Ss.			
			15-17	Gy. to Yel. Clay			
E-14	27	26.3	0-3	Brn. Sdy. soil		No count	
			3-13	Tn. F. G. Ss.			
			13-17	Pk. M. G. Ss.			
			17-19	Same with mud galls			
			19-24	Pinkish Tn. F. G. Ss.			
			24-27	Grn. Yel. Sh.			
E-15	11	11	0-3	Gy. limy soil		No count	
			3-7	Gy. Buff F. Shly. Sd.			
			7-T.D.	Gy. Gr. Sh.			
E-16	15	15	0-3	Br. Fine silty, soil		No count	
			3-8	Gy. Sh.			
			8-11	Grn. Buff F. Mic. Sd.			
			11-T.D	Gy Grn. Sh.			
E-17	17	16.5	0-3	Br. & Gy. Limy soil		No count	
			3-9	Br. F. Mic. Sd.			
			9-T.D.	Gy. to Gy. Gr. Sh.			
E-18	19	18.5	0-5	Br. Sdy. soil		No count	
			5-12	Br. F. Mic. Sd.			
			12-T.D.	Gy. Gr. Sh.			
P-1	63	60.5	0-14	Gy. Tn. Sdy. Silt		No count	
			14-31	Lt. Pk. to Tn. Ark. Sd.			
			31-35	Rd. Brn. Ox. Ark. Sd.			
			35-59	Lt. Pk. to Tn. Ark. Sd.			
			59-61	Pk. Ark. Sd. w/Carbon			
			61-63	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
P-2	65	63	0-29	Gy. Tn. silt		No count	
			29-60	Lt. Pk. Tn. Ark. Sd.			
			60-62	Brn. Sh. & Sd. w/Carbon			
			62-65	Bl. Gy. & Brn. Sdy. Sh.			
P-3	75	69	0-7	Gy. Tn. Silt		No count	
			7-10	Gy. Gn. Slty. Sh.			
			10-11	Rd. slty. Sh.			
			11-19	Tn. Sdy. Silt			
			19-74	Lt. Pk. to Tn. Ark. Sd.			
			74-75	Bl. Gy. Sh. w/carbon			
P-4	71	69	0-29	Gy. Tn. Sdy. silt		No count	
			29-44	Lt. Pk. to Tn. Ark. Sd.			
			44-45	Lt. Gy. Ls.			
			45-59	Lt. Pk. to Tn. Ark. Sd.			
			59-61	Yel. Brn. Sd.			
			61-70	Lt. Pk. to Tn. Ark. Sd.			
			70-71	Carbon & Bl. Gy. Sh.			
P-5	63	61	0-1	Soil		No count	
			1-9	By. Tn. Sh. Silt			
			9-61	Lt. Pk. to Tn. Ark. Sd. w/Ls. @ 27' & 37'			
				Carbon @ 60'			
			61-63	Bl. Gy. Sh.			
P-6	81	78	0-11	Gy. - Gy. Tn. & Yel. & Brn. Slty. Sh.		No count	
			11-15	Gy. Tn. silt			
			15-17	Gy. to Br. silt & Rd. Brn. Sd.			
			17-20	Gy. Sh.			
			20-81	Lt. Pk. Ark. Sd. V. F. Gr. top 10'			
				4" Calc. @ 25'			
				2" Ox. Rd. Brn. @ 56'			
				Calc. 6' @ 59'			
				Bent drill rod - could drill no deeper			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
P-7	83	81	0-18	Gy. Tn. Sdy. silt		No count	
			18-23	Rd. Brn. slty. Sd. - Ox.			
			23-29	Tn. Sd. & Ls.			
			29-83	Lt. Pk. to Tn. Ark. Sd.			
				4' Calc. @ 76'			
				2' Calc. @ 79'			
				- Bent drill rod -			
P-8	76	66	0-7	Gy. Tn. silt		No count	
			7-10	Gy. Tn. Sh.			
			10-75.5	Lt. Pk. to Tn. Ark. Sd. W/L.S. @ 49'			
			75.5-76	Gy. Bl. Sh. w/carbon			
P-9	Not drilled: Cannot drill to shale because of bent rod.						
P-10	31	29.5	0-11	Gy. Tn. Sdy. silt		No count	
			11-15	Buff to Brn. Slty. Sh.			
			15-20	Gy. Brn. Sh.			
			20-21	Gy. Ls.			
			21-23	Brn. slty. Sh.			
			23-31	Bl. Gy. Sh.			
R-20	34	33.5	0-34	Gy. clay loam (fill)		No count	
Q-1	32	32	0-16	Gy. Tn. Sdy. loam		No count	
			16-27	Rd. Brn. Ark. Sd.			
			27-28	Bk. Carb. Sh.			
			28-32	Bl. Gy. Sh.			
Q-2	40	37.8	0-16	Pk. to tn. Ark. Sd.		No count	
			16-26	Bl. Gy. Sh.			
			26-38	Rd. Br. to Or. Ark. Sd.			
			38-40	Gy. Ark. Ls. Congl. (Too hard to drill)			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
Q-3	36	32	0-8	Lt. Gy. tn. Sdy. loam		No count	
			8-15	Pk. Ark. Sd.			
			15-26	Bl. By. & Br. Sh.			
			26-35	Rd. Br. Ark. Sd.			
			35-36	Bk. Carb. Sh. Gy. Sh.			
Q-4	46	41.8	0-4	Gy. Tn. Sdy. loam		No count	
			4-24	Pk. to Tn. Ark. Sd.			
			24-30	Bl. Gy. Sh.			
			30-34	Bl. Gy. & Rd. Sh.			
			34-43	Rd. Br. Ark. Sd.			
			43-44	Gy. limy Sd. (hard.)			
			44-45	Bk. Carb. Sh.			
			45-46	Bl. Gy. Sh.			
Q-5	34	32.9	0-1	Soil		No count	
			1-8	Pk. Tn. Ark. Sd.			
			8-31	Pk. to Rd. Br. Ark. Sd.			
			31-34	Bl. Gy. Sh.			
Q-6	52	49.2	0-8	Lt. Gy.-Tn. Sdy. loam		No count	
			8-24	Pk. F. Gr. Ark. Sd.			
			24-30	Bl. Gy. & Rd. Sh.			
			30-47	Rd. Br. Ark. Sd.			
			47-51	Gy. & limy Sd. Hd.			
			51-52	Bk. Carb. Sh. & Bl. Gy. Sh.			
Q-7	58	56.2	0-21	Pk. to Tn. Ark. Sd.		No count	
			21-23	Lt. Gy. limy Sd. -hd.			
			23-31	Rd. Br. to Tn. Ark. Sd.			
			31-35	Bl. Gy. Sh.			
			35-37	Bl. Gy. & Rd. Sd.			
			37-57	Rd. Br. Ark. Sd.			
			57-57.5	Gy. Ls. Ark. Congl. (Hard)			
			57.5-58	Bk. Carb. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
Q-8	48	46.8	0-6	Gy. Tn. clay loam		No count	
			6-46	Pk. to Rd. Br. Ark. Ss.			
			46-48	Bl-Gy. Sh.			
Q-9	64	61.7	0-2	Sdy. loam		No count	
			2-12	Pk. Tn. Sd.			
			12-35	Pk. Ark. Sd.			
			35-39	Bl. Gy. Sh.			
			39-57	Rd. Br. Ark. Sd.			
			57-62	Gy. Limy Ark. Sd. (hard)			
			62-63	Bk. Carb. Sh.			
			63-64	Bl. Gy. Sh.			
Q-10	66	64.8	0-8	Tn. Ark. Sd.		No count	
			8-30	Pk. to Tn. Ark. Sd.			
			30-32	Lt. Gy. limy Sd.			
			32-45	Pk. to Tn. Ark. Sd.			
			45-47	Bl. Gy. Sh.			
			47-65	Rd. Brn. Ark. Sd.			
			65-66	Bk. Carb. Sh.			
Q-11	54	52.3	0-14	Gy. Tn. clay loam		No count	
			14-49	Pk. to Rd. Ark. Sd.			
			49-51	Gy. Ark. Ls. Congl.			
			51-52	Bk. Carb. Sh.			
			52-54	Bl. Gy. Sh.			
Q-12	70	67.7	0-4	Gy. Tn. Sdy. loam		No count	
			4-10	V. lt. Gy. F. Gr. Sd.			
			10-48	Pk. to Tn. Ark. Sd.			
			48-67	Rd. Br. Ark. Sd.			
			67-68	Lt. Gy. limy Sd.			
			68-70	Bl. Gy. Sh. Carb. at top 1"			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
Q-13	58	55.8	0-6	Gy. Tn. Sdy. loam		No count	
			6-55	Pk. to Rd. Br. Ark. Sd.			
			55-57	Gy. limy Ark. Congl.			
			57-58	Bk. Carb. Sh. & Bl. Gy. Sh.			
Q-14	69	68	0-15	By. Tn. Slty. loam		No count	
			15-53	Lt. Pk. to Gy. Pk. Sd.			
			53-55	Gy. Sh.			
			55-69	Rd. Br. Ark. Sd.			
				Rg. Breakdown at 69'.			
Q-15	60	58	0-21	Gy. Tn. Sdy. loam		No count	
			21-59	Rd. Br. to Pk. Ark. Sd.			
			59-60	Lt. Gy. V. limy Sd. (hard)			
				(Cap rock on Sh.)			
Q-16	54	52.1	0-20	Sdy. loam		No count	
			20-53	Tn. to Rd. Br. Ark. Sd.			
			53-54	Bk. Carb. Sh. & Bl. Gy. Sh.			
Q-17	65	63.8	0-21	Gy. Tn. Sdy. loam		No count	
			21-23	Gy. limy Sd.			
			23-64	Pk. to Rd. Br. Ark. Sd.			
			64-65	Gy. limy Sd.			
				(Too hard to drill)			
Q-18	58	55.7	0-36	Gy. Tn. Sdy. loam		No count	
			36-38	Lt. Gy. limy Sd.			
			38-57	Rd. Br. Ark. Sd.			
			57-58	Gy. Sh.			
Q-19	69	65.3	0-35	Gy. Tn. Sdy. loam		No count	
			35-68	Pk. to Rd. Br. Ark. Sd.			
			68-69	Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
Q-20	60	57.8	0-21	Gy. Tn. Sdy. loam		No count	
			21-54	Rd. Br. to Tn. Ark. Sd.			
			54-56	Lt. Gy. V. limy Sd.			
			56-57	Rd. Brn. Ark. Sd.			
			57-58	Dk. Gy. Carb. Sh.			
			58-60	Bl. Gy. Sh.			
R-1	68	66.2	0-4	Gr. Gy. Slty. Soil		No count	
			4-8	Wh. F. G. Slty. Sd.			
			8-26	Br. Cr. Ark. Mic. Sd.			
			26-30	Rd. Cr. Ark. Mic. Sd.			
			30-59	Br. Cr. Ark. Mic. Sd.			
			59-61	Br. Lim. (Fe. Ox.) Sd.			
			61-65	Br. Cr. Ark. Mic. Sd.			
			65-66	Bk. Carb. Coaly Sh.			
			66-T.D.	Bl. Gy. Sh.			
R-2	56	53.1	0-2.5	Soil - Clay & Silt		No count	
			2.5-10	Rd. Mic. Ark. Sd.			
			10-38	Rd. Tn. Ark. Sd., Ls. (@ 20-22'			
			38-40	Drk. Rd. (Fe. Ox.) Ark. Sd.			
			40-44	Rd. Brn. Ark. Sd.			
			44-45	Lt. Brn. Ark. Sd., 6" Carbon @ Base			
			55-T.D.	Bl. Sh.			
R-3	42	41	0-4	Buff Clay Sdy. (Fill)		No count	
			4-6	F. G. Buff Mic. Sd.			
			6-37	Pk. to Br. Mic. Ark. Sd. (Wh. Ls. @ 25-26')			
			37-38	Gy. Sh.			
			38-40	Br. Mic. Ark. Sd.			
			40-T.D.	By. Sh. 2/Bk. Carb. at 40'			
R-4	47	46.9	0-4	Gy. F. G. Slty. soil		No count	
			4-11	Gy. V. F. G. Slty. Sd.			
			11-16	Pk. Wh. F. G. Mic. Sd.			
			16-46	Br. & Rd. Br. Ark. Sd., Hd. Stk. at 41'			
			46-T.D.	Hd. Wh. Gy. Lmy. Mic. Sd.			
				Unable to drill deeper			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
R-5	40	39	0-2	Soil		No count	
			2-4	Gy. Tn. Silt (Fill)			
			4-22	Tn. to Rd. F. G. Ark. Sd.			
			22-26	Tn. to Rd. F. G. Ark. Sd. & Tn. Sh.			
			26-39	Tn. to Yel. Tn. Fn. Gr. Ark. Sd.			
				Bl. & Blk., Carbon @ base			
			39-40	Bl. Gy. Sh.			
R-6	56	54	0-7	Gy. Slty. Soil		No count	
			7-12	Wh. to Gy. F. G. Sdy. Ls.			
			12-26	Br. Cr. Ark. Sd.			
			26-28	Gy. dense Ls.			
			28-43	Br. Cr. Ark. Sd.			
			43-45	By. dense Mic. Hd. Lmy. Sd.			
			45-54	Br. Cr. Ark. Sd.			
			54-T.D.	Bk. Carb. Sh., then Bl. Gy. Sh.			
R-7	40	39.3	0-6	Gy. F. G. Slty. Soil		No count	
			6-12	By. V. F. Slty. Sd.			
			12-18	Pk. Wh. F. Mic. Sd.			
			18-25	Br. & Rd. Br. Ark. Sd.			
			25-30	Hd. F. Ark. Gy. Mic. limy. Sd.			
			30-36	Gy. Br. Ark. Sd.			
			36-38	By. Hd. dense Ls.			
			38-40	Br. Cr. Ark. Sd.			
R-8	38	35.5	0-2	Clay & silt soil		No count	
			2-9	F. Gr. slty. buff to Tn. Sd.			
			9-31.5	Med. F. Gr. Rd. Ark. Sd., 2"-3" Carb. @ bottom			
			31.5-TD	Bl-Gy. to Br. Sh.			
R-9	50	47.3	0-6	Gr. Gy. F. slty. soil		No count	
			6-9	Lt. buff F. Slty. Sd.			
			9-49	Cr. Pk. to br. Ark. Sd.			
			49-T.D.	Bk. Carb. Sh., then Gy. Bl. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
R-10	38	37.5	0-1	Soil		No count	
			1-2	Rd. F. Gr. Ark. slty. Sd.			
			2-26	Buff to Rd. Tn. F. Gr. Ark. Sd.			
			26-29	Buff Sh.			
			29-34	Lt. Tn. to Buff F. Gr. Slty. Sd.			
			34-T.D.	Bl.Gy. Sh.			
R-11	48	46	0-4	Gy. clay loam		No count	
			4-10	Gy. F. Mic. Sd.			
			10-45	Br. to Rd. Br. Ark. Sd.			
			45-46	Bk. coaly Carb. Sh.			
			46-T.D.	Bl. Gy. Sh.			
R-12	50	48.1	0-4	Gy. Br. soil		No count	
			4-6	Gy. Br. Slty. Sd.			
			6-18	Pk. to Br. Cr. Ark. Sd.			
			18-20	Dk. Rd. Fe. Ox. Sd.			
			20-47	Pk. to Br. Cr. Ark. Sd.			
				w/ Gy. Sh. partings at 22' and 28'			
			47-48	Bk. Carb. Sh.			
			48-T.D.	Bl. Gy. Sh.			
R-13	7 (Dis-allowed)	7 (New hole)	0-4	Granitic Cong.		No count	
			0-4	Br. dirty Sdy. Soil			
			4-7	Hd. Wh. Granite Congl. Sd.			
				(70% Qtz. Can't drill it.)			
R-14	36	31.5	0-18	Lt. Tn. Silt & Clay (Fill)		No count	
			18-28	Rd. Brn. Ark. Sd., 6" Carb. @ Bottom			
			28-30	Bl. Gy. & Br. Sh.			
			30-T.D.	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe (depth) (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
R-15	44	42.3	0-4	Br. Cr. Ark. Sd.		No count	
			4-10	Lt. Gy. Tn. Ark. Sd.			
			10-14	Tn. Ark. Sd.			
			14-41	Rd. Br. Cr. Ark. Sd.			
			41-42	Bk. Carb. Sh.			
			42-44	Bl. Gy. Sh.			
R-16	40	37.6	0-33	Br. Cr. Ark. Sd.		No count	
			33-36	Lt. Gy. Hd. Sdy. Ls.			
			36-38	Br. Cr. Ark. Sd.			
			38-40	Bk. Carb. Sh., then Bl. Gy. Sh.			
R-17	32	31.5	0-6	Dk. Gy. clay loam		No count	
			6-24	Rd. Br. to Pk. Cr. Ark. Sd.			
			24-26	Dk. Rd. & Yel. Br. Fe. Ox. Sd.			
			26-28	Rd. Br. Ark. Sd.			
			28-29	Bk. Carb. Sh.			
			29-T.D.	Bl. Gy. Sh.			
R-18	40	40	0-17	Gy. Tn. Clay loam		No count	
			17-33	Pk. to Rd. Brn. Ark. Sd.			
			33-37	Gy. Ark. Ls. Congl.			
			37-38	Rd. Brn. Ark. Sd.			
			38-39	Bk. Carb.			
			39-40	Bl. Gy. Sh.			
R-19	34	32	0-20	Gy. Tn. loam		No count	
			20-32	Lt. Br. to Rd. Ark. SS.			
			32-34	Carb. Bl. Gy. Sh.			
V-1	59	55	0-1	Soil		No count	
			1-8	Lt. Pk. to Tn. Ark. Sd.			
			8-34	Gy. Tn. Sdy. slty. Sh.			
			34-46	Lt. Pk. to Tn. Ark. Sd.			
			46-59	Bl. Gy. Sh. Sdy. to 55'			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
V-3	69	61	0-4	Tn. Sdy. slty. soil		No count	
			4-21	Buff to Lt. Gy. slty. Sh.			
			21-63	Bl. Gy. Sh. w/buff to 37'			
				4' Buff & Violet @ 37'			
				Buff & Bl. Gy. to 49'			
				@ 51', 2' Dk. Gy. @ 53'			
			63-69	Rd. Shly. slty. Sd.			
V-4	69	63	0-3	Brn. silt		No count	
			3-23	Tn. w/lt Pk. slty. Ark. Sd.			
			23-43	Gy. Tn. to Yel. Tn. Sdy. Sh.			
			43-46	Gy. Shly. Ls.			
			46-51	Var. Bl. & Rd. Sh. - Sdy.			
			51-55	Tn. to Gy. Sdy. Sh.			
			55-69	Bl. Gy. Sh.			
V-9	27	25	0-2	Sdy. slty. soil		No count	
			2-7	Lt. Pk. to Tn. Ark. Sd.			
			7-9	Gy. Tn. Shly. Sd.			
			9-15	Gy. Tn. Sh.			
			15-27	Gy. & Bl. Gy. Sh.			
V-12	55	51	0-7	Yel. Tn. Sdy. silt		No count	
			7-13	Gy. Tn. Sh.			
			13-49	Gy. Bl. Sh.			
			49-53	Rd. Sdy. Sh. Ox.			
			53-55	Dk. Gy. Sh. w/carbon			
V-16	29	27	0-7	Lt. Brn. Sdy. slty. soil		No count	
			7-13	Gy. Brn. Sdy. slty. Sh.			
			13-29	Bl. Gy. Sh.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Sample data: Interval (feet)	Radiometric % eU_3O_8	Chemical % U_3O_8
V-17	47	43	0-3	Lt. Pk. to Tn. Ark. Sd.	18.9 to 19.6	0.04	
			3-5	Lt. Gy. Ls. - Sdy.			
			5-22	Lt. Pk. to Tn. Ark. Sd. w/carbon @ base			
			22-37	Bl. Gy. Sh.			
			37-46	Yel. Tn. Sdy. Sh.			
			46-47	Bl. Gy. Sh.			
W-2	34	33	0-8	Rd. br. Ark. Sd.		No count	
			8-24	Yel. buff to Gy. Sh.			
			24-26	Bl. Sh.			
			26-T.D.	Yel. buff. Slty. Sh.			
W-3	40	37	0-2	Rd. Ark. Mic. Sd.		No count	
			2-5	Pk. to Br. Cr. Sd.			
			5-7	Gy. to dk. Gy. Mic. Sd.			
			7-9	Gy. Sh.			
			9-10	F. Buff Sd.			
			10-16	Gy. Sh.			
			16-18	Choc. Br. Ark. Sd.			
			18-22	Gy. Sh.			
			22-24	Choc. Br. Gyp. Sd.			
			24-27	Yel. Ochre Slty. Sd.			
			27-31	Gy. Br. Mic. Sd.			
			31-33	Gy. Sh.			
			33-38	Gy. Br. Slty. Sd.			
			38-T.D.	Gr. Gy. Sh.			
W-15	30	28.5	0-8	Rd. Br. Ark. Sd.		No count	
			8-17	Gy. Sh.			
			17-22	Yel. Buff F. Sd.			
			22-27	Bl. Sh.			
			27-T.D.	Yel. & Gy. Slty. Sd.			

Hole no.	Depth (feet)	Probe depth (feet)	Feet	Lithology	Interval (feet)	Sample data Radiometric % eU_3O_8	Sample data Chemical % U_3O_8
W-20	40	37.3	0-4	Rd. Br. Ark. Sd.		No count	
			4-7	Br. Fine Slty. Sd.			
			7-19	Yel. Slty. & Gy. Sh.			
			19-22	Yel. Br. Sd.			
			22-30	Bl. Gy. Sh.			
			30-32	Yel. Br. Sd.			
			32-34	Wh. Shly. Ls.			
			34-T.D.	Yel. F. Sd.			
W-22	24	23	0-14	Rd. Br. Ark. Sd.		No count	
			14-22	Gy. Sh. w/Yel. Sd. partings			
			22-22.5	Bk. Carb. Max.			
			22.5-TD	Bl Sh.			

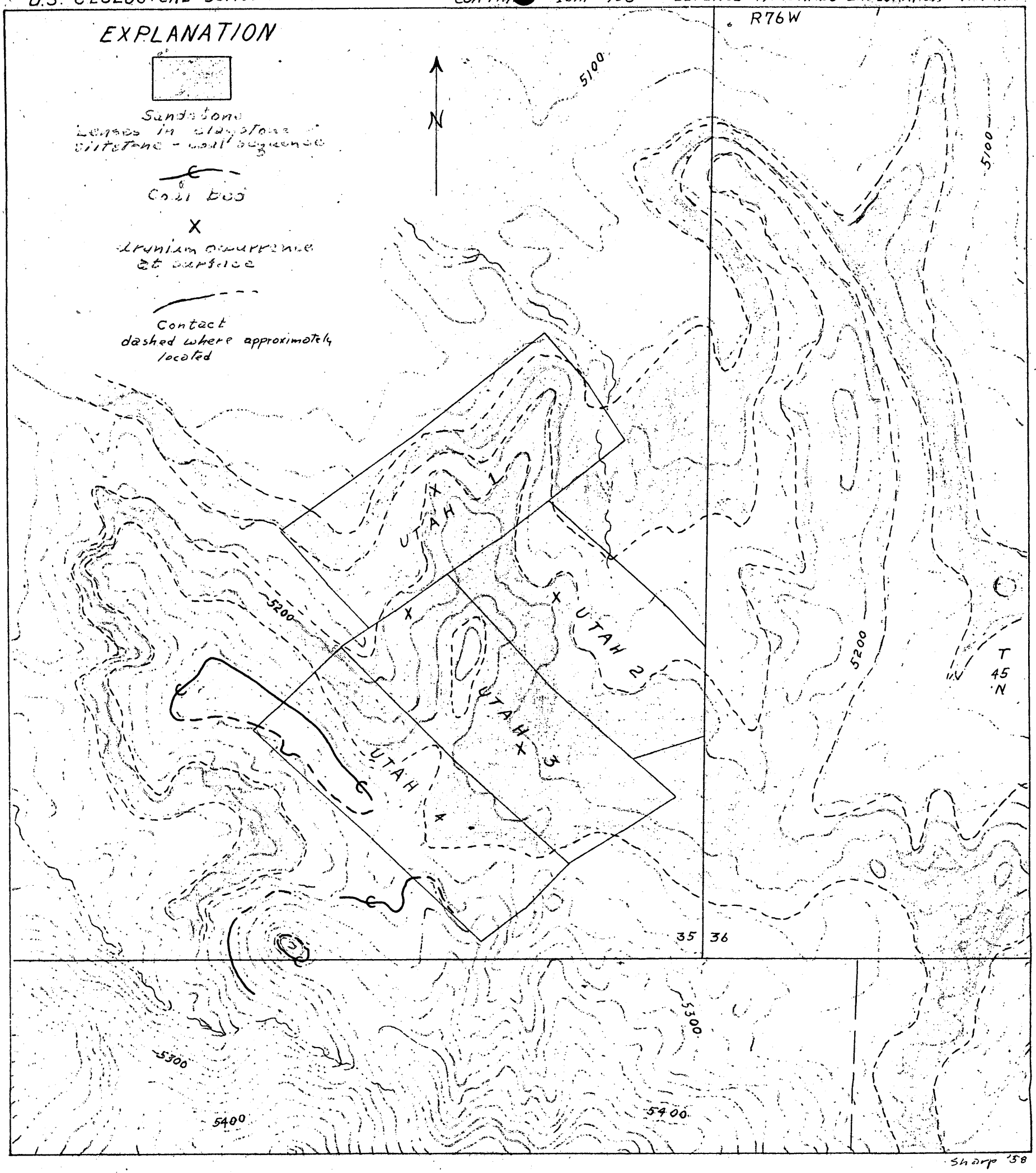


Figure 4- GEOLOGIC MAP OF THE DOME BUTTE AREA
CAMPBELL COUNTY, WYOMING
PRICE EXPLORATION COMPANY - DMEA 3835, CONTRACT Idm-E908

1000 500 0 500 1000 feet

CONTOUR INTERVAL 20 FEET

ORIGINAL FILE COPY
DMEA
RECEIVED MAR 20 1958

DATE	INITIALS	CODE

ORIGINAL FILE COPY
DMEA
RECEIVED MAR 20 1958

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 3 1958

DATE	INITIALS	CODE
3/3	C	220
3/3	[illegible]	800
3/4	[illegible]	700

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

February 27, 1958

Mr. George Travis
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket DMEA-3835 (Uranium)
Contract Idm-E908
Price Exploration Company
(North Pumpkin Buttes Property)
Campbell County, Wyoming

Dear Mr. Travis:

Enclosed is a copy of the reply, dated February 26, 1958, from W. Don Quigley, to our letter of February 20, 1958. A copy of our February 20 letter was sent to you at the above address.

You are requested to submit royalties and three copies of each settlement sheet for some 3,200 tons of uranium ore and all other previously unreported production made from the land described in Annex I of the captioned contract.

Very truly yours,

Original signed by
W. H. KING
W. H. King
Executive Officer, DMEA
Field Team, Region III

Enclosure
MHM:jy
cc: Chm. Op. Comm. (2)
Harshman
DMEA,DFC - 2
Townsend
Corres. File E908
Royalty File
Chron.
) w/copy Quigley's ltr. dtd. 2/26/58 & our reply, dtd. 2/27.

PHONE ELGIN 9-3575

W. DON QUIGLEY

CONSULTING GEOLOGIST

URANIUM - OIL - MINING WORK

615 Newhouse Bldg. - Salt Lake City, Utah

February 26, 1958

DMEA
DEPARTMENT OF THE INTERIOR
FEB 27 1958
REGION III
DENVER, COLORADO

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

Re: Docket DMEA-3835
Contract Idm-E908

Dear Mr. King:

Your recent letter of February 20, 1958, indicates that you are holding our company, Gaul, Hendel & Quigley, responsible for payment of royalty to the government on some 3,195 tons of uranium ore which was produced from lands subordinated by DMEA Loan Docket DMEA 3835, Contract IDM E-908.

As this contract was never authorized for transfer to our company we feel that we are not obligated and your inquiry should be directed to Price Exploration Company, with whom the contract was made.

Sincerely,

W. Don Quigley

W. Don Quigley

WDQ:wa

EXTRA COPY
DMEA

RECEIVED MAR 3 1958

DATE		CODE

224 New Customhouse
Denver 2, Colorado

February 27, 1958

Mr. W. Don Quigley
Price Exploration Company
615 Newhouse Building
Salt Lake City, Utah

Re: Docket DMEA-3835 (Uranium)
Contract Idm-E908
Price Exploration Company
(North Pumpkin Buttes Property)
Campbell County, Wyoming

Dear Mr. Quigley:

Thank you for the information contained in your letter of February 26, 1958 to this office.

Very truly yours,

Original signed by
W. H. KING

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

MHM:jy

cc: Chm. Op. Comm. (2)
Harshman
DMEA,DFC - 2
Townsend
Corres. File E908
Royalty File
Chron.

DMEA RECEIVED FEB 24 1958		
DATE	INITIALS	CODE
2/24	C	220
2/25	[illegible]	800
2/26	[illegible]	700

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

February 20, 1958

Mr. W. Don Quigley
Price Exploration Company
615 Newhouse Building
Salt Lake City, Utah

Re: Docket DMEA-3835 (Uranium)
Contract Idm-E908
Price Exploration Company
(North Pumpkin Buttes Property)
Campbell County, Wyoming

Dear Mr. Quigley:

An inspection of AEC production records discloses the fact that approximately 3,195 tons of uranium ore was produced from land subordinated to the Government under the captioned contract from December 22, 1955 through September 30, 1957.

Article 8 of the contract stipulates that the Operator shall pay royalties and submit evidences of sales of all production during the period of time specified in the contract.

You are requested to submit royalties and three copies of each settlement sheet for this and all other previously unreported production made from land described in Annex I of the contract.

Very truly yours,

Original signed by
W. H. KING

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

Copy to:
Mr. George Travis
P. O. Box 1283
Grand Junction, Colo.

MHM:jy

cc: Chm. Op. Comm. (2)
Harshman
DMEA,DFC - 2
Townsend
Corres File E908
Royalty file
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/24/58	Ching	700
"	Ellis	700
2/24	Selfridge	130
"	Johnson	110
"	Berkenkopf	100
2/24	C	220
		700

FEB 24 1958

Department of the Interior

DMEA

14X4401(01) Revolving Fund, Defense Production Act, Interior, (Transfer to Office of Secretary)

T E L E T Y P E

W. H. KING, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REURTT FEBRUARY 20 PRICE EXPLORATION COMPANY DOCKET 3835. CERTIFICATION NOT WARRANTED BUT ROYALTIES ARE DUE ON ALL PRODUCTION FROM LAND DESCRIBED IN ANNEX I FROM DECEMBER 22, 1955, TO FEBRUARY 26, 1958.

George C. Selfridge

CHAIRMAN, OPERATING COMMITTEE (26B)

MChing/gla
2-24-58
cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
Mr. Ching
Confirmation to Region III

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/21	Ching	700
2/21	Ellis	700
2/21	[illegible]	130
"	Johnson	110
"	[illegible]	100
		JWB
		220
		700

2/21 Lamb (130)
2/21 Rilegaard (130)

Dept. of the Interior

DMEA

14X4401(01) Revolving Fund
Defense Production Act,
Interior (Transfer to Office of
Secretary)

T E L E T Y P E

W. H. KING
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION 3
224 NEW CUSTOM HOUSE BUILDING
DENVER, COLORADO

RE PRICE EXPLORATION COMPANY DOCKET 3835. YOUR MEMORANDUM OF JUNE 14, 1957 ADVISED THAT TENTATIVELY NO CERTIFICATION WILL BE RECOMMENDED. FINAL DATE FOR CERTIFICATION IS FEBRUARY 26. PLEASE TELETYPE DEFINITE DECISION PROMPTLY.

George C. Selfridge
CHAIRMAN, OPERATING COMMITTEE (JWB)

MChing/izm 2-21-58
cc: Mr. Ching
Admr.'s Reading File
Operating Committee
Confirmation cc to Reg. 3

8623

DMEA

DMEA
RECEIVED FEB 21 1958
DATE | CODE
2/21 | C 220
" | Chrisy 700

N 235 BUR MINES 2-20-58 1 9-45

HAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET DMEA 3835, CONTRACT IDM-
E908, PRICE EXPLORATION CO.
OPERATOR S FINAL REPORT RECEIVED AUG. 26,1957. THEREFORE, IF PROJECT IS TO BE CERTIFIED, MUST BE RESOLVED BY 2-26. RECENT INFORMATION INDICATES PRODUCTION OF APPROXIMATELT 4,000 TONS FROM COLORADO CLAIMS NOS. 1 AND 4, WHICH WAS NOT AS A RESULT OF WORK UNDER DMEA CONTRACT. FOR REFERENCE IN THE MATTER SEE OPERATOR S FINAL REPORT, FIELD EXAMINERS REPORT OF JUNE 12,1957, AND OPERATOR S LETTER OF MAY 24,1957. STAGE 1 DRILLING DISCLOSED ORE GRADE MINERALIZATION IN TWO HOLES IN AREA C, RESULTING IN APPROVAL OF THIRTEEN OFFSET HOLES UNDER STAGE II, HOWEVER, OPERATOR PERFORMED DRILLING AT OWN EXPENSE WHICH DISCLOSED ADDITIONAL ORE GRADE MINERALIZATION, THE EXTENT OF WHICH UNKNOWN AS OPERATOR HAS NOT PROVIDED RECORDS THEREOF. BASED ON INSIGNIFICANT DISCOVERY RESULTING FROM STAGE 1 DRILLING, THIS OFFICE RECOMMENDS NO CERTIFICATION, HOWEVER, MATTER APPEARS TO INVOLVE DMEA POLICY, AND CIRCUMSTANCES DISCLOSED BY REFERRED-TO MATERIAL MAY HAVE BEARING ON YOUR DECISION IN THE MATTER. FIELD TEAM FINAL REPORT WILL BE AVAILABLE IN ABOUT THREE WEEKS.

W H KING

STAGE 11 IS STAGE II

Denver, Colorado

rm 7

OFFICIAL FILE COPY

Date	Surname	Code
9/13	Talbert	800
9-16	C	220
9-16	Chang	700

SEP 13 1957

Mr. Thomas H. Brading
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Re: Report of Review
Price Exploration Company
Contract No. Idm-E908
Docket No. DMEA-3835

Dear Mr. Brading:

The recently submitted copies of the Report of Review covering the above-cited project are accepted and normal distribution is authorized.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Director
Contract Administration
and Audit Division

EDTalbert/wb
September 13, 1957

Copy to: Docket
Admr. Reading File
Mr. Chambers

8623

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

August 28, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming.

Enclosed are the original and one copy of a final report, dated August 15, 1957, submitted by the Operator, pertaining to work completed under the subject contract.

The Field Team's Final Report will be submitted as soon as the engineering and geologic sections are available.

E. N. Harshman

E. N. Harshman

Enclosures

OFFICIAL FILE COPY
DMEA
RECEIVED 8 1957
9/3 220
9/3 800
9/4 700

PRICE EXPLORATION COMPANY

HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

DMEA
ARTMENT OF THE INTERIOR
AUG 26 1957
REGION III
DENVER, COLORADO

August 23, 1957

Mr. E. N. Harshman, Acting Executive Officer
DMEA Field Team, Region III
United States Department of the Interior
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
(North Pumpkin Buttes)
Campbell County, Wyoming

In reply to your letter of August 5th, we are enclosing five copies of final report on DMEA Docket 3835 covering North Pumpkin Buttes property. We trust this is adequate information to complete your files.

E. L. Gallery, Secretary-Treasurer

ELG:lg
Encl.:
cc: Mr. Don Quigley
Mr. George Travis

FINAL REPORT
ON
DMEA DOCKET 3835
CONTRACT NO. Idm -6 908
ON
NORTH PUMPKIN BUTTES PROPERTY

DMEA
DEPARTMENT OF THE INTERIOR
AUG 26 1957
REGION III
DENVER, COLORADO

August 15, 1957

W. Don Quigley
Consulting Geologist

FINAL REPORT
ON
DMEA DOCKET 3835
CONTRACT NO. Idm -6 908
ON
NORTH PUMPKIN BUTTES PROPERTY

Introduction

The DMEA Contract No. 908, has been terminated by the Government at the conclusion of Stage I as outlined under the contract. A report of all findings as a result of Stage I drilling, plus all data, including radiometric and chemical assays, were submitted at the conclusion of Stage I drilling. It is not deemed necessary to repeat those findings and data herein.

Certain mineralized areas were located by the Stage I drilling on the property, and Stage II was designed to more fully outline one of these: Area "C". However, the cancellation of the contract prevented the additional drilling necessary to make any definite conclusions as to its possibilities. Nevertheless, Gaul, Hendel and Quigley, who are now operating the property have accomplished approximately 5,000 feet of drilling in the area and have fully outline some of the ore areas, including Area "C".

GEOLOGY

The drilling and mining operations on the property have shown that the radioactive mineralization occurs in a sandstone horizon near the surface. This sandstone is part of the Wasatch formation

and lies immediately on top of a widespread and thick, gray-blue clay shale, also included in the Wasatch. The sandstone is extremely lenticular and variable in lithology. It varies in thickness from nothing to more than 70 feet. All of the mineralized ore concretions, rolls, trees, and streaks found to date are located in this sandstone at various depths. No one particular horizon appears to be more favorable than others.

The gray-blue shale is occasionally in contact with the surface and yet less than 200 feet away the shale may be buried 40 feet under a lens of fluviatile, cross-bedded, coarsed grained, loosely cemented sandstone. It is apparent that an erosional hiatus occurred at the gray-blue shale and sandstone contact. Deep channels, scours and pits were cut out of the shale and then suddenly filled with coarse-grained sand and carbonaceous debris. Fresh water limestones are also found in some of the depressions. The depositional conditions are characteristic of shallow flood plains, and lakes with the influx of sudden and large amounts of sediments and plant debris.

It has been virtually impossible to outline any mineralized channels or trends in the area. Some minor channels and rolls are indicated but these rarely can be traced more than a few feet. There is no regularity of mineralization and continuous ore bodies have not been found.

Structure, which would effect the location of the mineralization, is not apparent in the area. The regional dip is about 2 degrees to the northwest.

Mineralized Deposits

As previously reported, the uranium deposits in the vicinity of the Pumpkin Buttes are of the sedimentary type. They occur generally, as small pods, rolls, trees, and streaks caused by the replacement of the cementation material. The large amount of drilling and extensive mining operations on the property have failed to uncover any sizeable continuous ore body. Irregularly located pods or small rolls is the extent of the mineralization. The frequency of the occurrence of these small bodies determines whether or not mining is profitable. In the best areas found to date the average ratio of waste to ore is about 10 to 1. This makes mining operations expensive.

A drill hole with mineralization and good quality ore means very little. Many holes, closely spaced, are required to determine the possibility of profitable production.

As stated above, the uranium has been found to date in a sandstone zone near the surface. No attempt has been made to drill through the gray-blue shale below. It is possible that more sizable deposits might be found below the shale. However, they would probably be from 200 to 500 feet deep if they exist.

Reserves Outlined

Since only Stage I drilling was allowed under the contract no reserves were outlined. From extensive experience in mining in the area, it has been found impossible to outline reserves by drilling,

for the reasons stated above. Only by actual mining operations do the reserves become known. Probe and assay readings from drill holes must be reduced by a factor of 3 to approach the actual mine grade of the ore.

Two mineralized areas, Area "B" and "C", on the map, may have ore in sufficient grade and quantity to provide profitable mining operations. Many drill holes have been placed in these two areas but the results are inconclusive. Area "B" has been stripped but mining operations have not commenced to date.

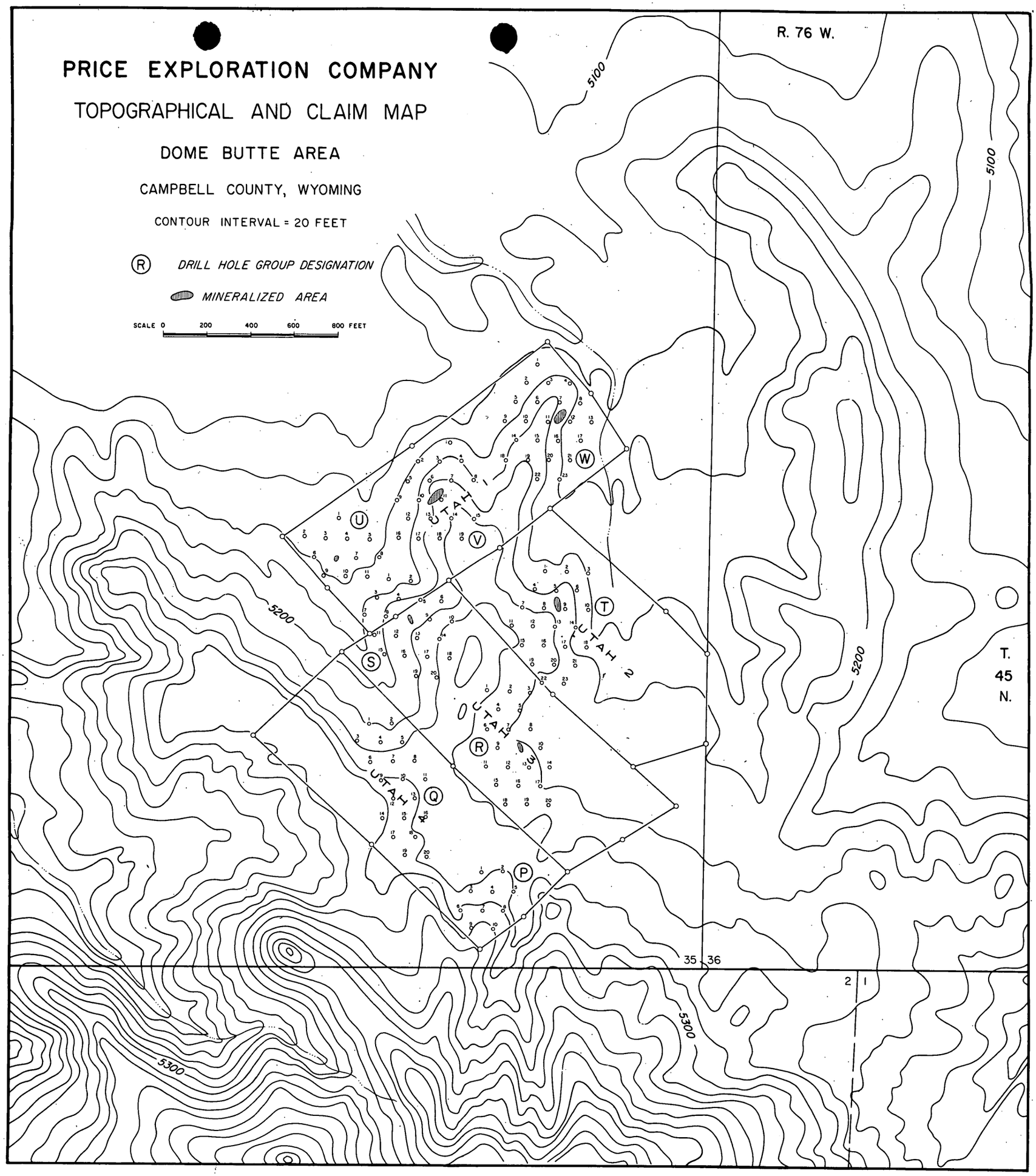
Summary of Work Performed and Costs

Only stage I drilling was performed under the contract. 130 holes totalling 5496 feet of drilling, were drilled under Stage I for a total drilling cost of $4,122.00($.075 per foot). The results and data on this drilling have already been submitted. Twenty-three chemical assays were obtained at $5.00 each, making a total of $115.00. Again the results have been reported. Supervision and incidentals allowed under the contract came to a total of $1,154.16. The total expenditure under the contract was $5,391.16. The amount authorized for Stage I under the contract was $5,683.00.

W. Don Quigley

W. Don Quigley
Consulting Geologist

wa


PRICE EXPLORATION COMPANY
TOPOGRAPHICAL AND CLAIM MAP
DOME BUTTE AREA
CAMPBELL COUNTY, WYOMING
CONTOUR INTERVAL = 20 FEET
DRILL HOLE GROUP DESIGNATION
MINERALIZED AREA
SCALE 0 200 400 600 800 FEET
R. 76 W.
T. 45 N.
5100
5200
5300
UTAH 1
UTAH 2
UTAH 3
UTAH 4
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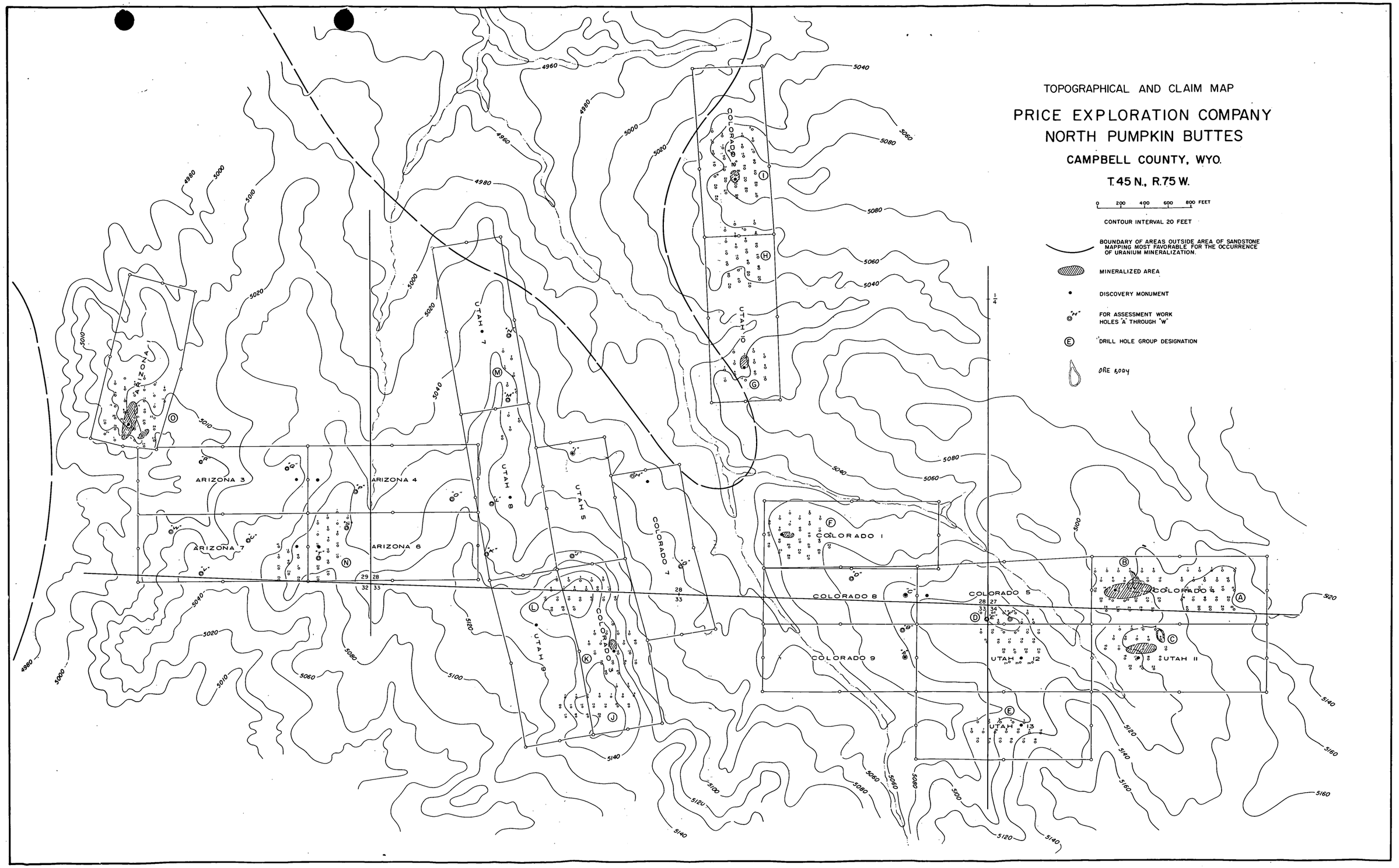
TOPOGRAPHICAL AND CLAIM MAP
PRICE EXPLORATION COMPANY
NORTH PUMPKIN BUTTES
CAMPBELL COUNTY, WYO.
T. 45 N., R. 75 W.
0 200 400 600 800 FEET
CONTOUR INTERVAL 20 FEET
BOUNDARY OF AREAS OUTSIDE AREA OF SANDSTONE MAPPING MOST FAVORABLE FOR THE OCCURRENCE OF URANIUM MINERALIZATION.
MINERALIZED AREA
DISCOVERY MONUMENT
FOR ASSESSMENT WORK HOLES "A" THROUGH "W"
DRILL HOLE GROUP DESIGNATION
ORE BODY
ARIZONA 1
ARIZONA 3
ARIZONA 4
ARIZONA 6
ARIZONA 7
UTAH 7
UTAH 8
UTAH 5
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UTAH 10
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UTAH 13
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DMEA
RECEIVED 1957
DATE INITIAL CODE
9/3 C 220
9/4 800
9/4 700

224 New Customhouse
Denver 2, Colorado

August 28, 1957

Memorandum

To: T. H. Brading, DMEA Auditor

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

Subject: Docket No. DMEA-3835 (Uranium), Contract No. Idm-N908
Price Exploration Company (North Pumpkin Buttes)
Campbell County, Wyoming

The subject contract was terminated by mutual agreement before completion of all work provided for by Termination Agreement made effective August 1, 1956. A copy of the Termination Agreement is enclosed for your records.

The Operator has rendered a final engineering and geologic report and final accounting as required by the contract. Therefore, final payment of the Operator's account is in order contingent on release to this office of a Certificate and Report of Audit, or Report of Review of reported project costs, whichever the case indicates.

Acceptable units of work or service completed on a Fixed Unit Cost basis consist of incidental allowance on 5,489 feet of drilling and the analysis of 23 samples.

The sum of $486.25 was withheld from reimbursement to the Operator in processing the final accounting report, which was for the month of July, 1956.

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enc.

JWT:bh

cc-Chairman, Op. Comm. (2)
Harshman
Townsend
Corres. File
Chron.

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

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 7 1957

DATE	INITIALS	CODE
8/6	R.K.	220
"	[illegible]	700

August 5, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Enclosed are the Government's, Division, and Audit copies of TERMINATION AGREEMENT, which was forwarded by your letter of July 28, 1957 for signature by all partners of Price Exploration Company. JUNE

Also enclosed are the original and six copies of ASSIGNMENT OF CONTRACT, which was forwarded by your letter of December 6, 1956 for signature by all partners of Price Exploration Company.

The Assignment of Contract instrument is returned for your disposition since the Operator was never able to provide executed Consent to Lien forms and the Contract was eventually terminated by the enclosed Termination Agreement.

Copies of the Termination Agreement have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

E. N. Harshman

E. N. Harshman

Docket Copy

ASSIGNMENT OF CONTRACT

WHEREAS, Harold C. Price, M. L. Price, E. L. Gallery, Alton H. Rowland, Harold C. Price, Jr., Joe D. Price, and R. K. Shivel, partners, d/b/a Price Exploration Company (hereinafter called the "Assignors"), entered into Exploration Project Contract Idm-E908 (Docket No. DMEA-3835), dated December 22, 1955, (hereinafter called the "Contract"); and

WHEREAS, George H. Gaul, W. Don Quigley, and Charles W. Hendel III, acting as a joint venture, whose address is C/o Charles W. Hendel III, 615 Newhouse Building, Salt Lake City 11, Utah (hereinafter called the "Assignees"), has acquired the Assignors' interest in the land which is the subject of the Contract and the Assignees desire to complete the work under the Contract;

NOW THEREFORE, the Assignors, in consideration of the sum of One Dollar ($1.00) and other good and valuable consideration received from the Assignees do hereby assign, transfer, and convey to the Assignees all of their right, title, and interest in the Contract (including any and all property purchased for and the right to use any and all property devoted to the work under the Contract): Provided, That the Government shall make payment to the Assignors for all work performed prior to August 1, 1956, and upon payment thereof the Government shall be and is hereby released by the Assignors from all claims under the Contract.

The Assignors consent to all future amendments and assignments of the Contract and waive notice thereof, and agree to remain bound to the terms, provisions, and conditions of the Contract.

This Assignment is subject to the execution by the Assignees of the acceptance form set forth below and to the written consent of the Government.

Dated this _____ day of _____, 1956.

M. L. Price (Partner)	Harold C. Price (Partner)
E. L. Gallery (Partner)	Harold C. Price, Jr. (Partner)
Alton H. Rowland (Partner)	Joe D. Price (Partner)
	R. K. Shivel (Partner)

ASSIGNEES' ACCEPTANCE

The Assignees named above hereby accept the above Assignment and agree to be bound by the terms, provisions, and conditions of the Contract.

Dated this _____ day of _____, 1956.

_____
George H. Geul

_____
W. Don Quigley

_____
Charles W. Hendel III

GOVERNMENT'S CONSENT

The Government, this 5th day of December, 1956, hereby consents to the above Assignment without releasing the Assignors named above from any of the terms, provisions, and conditions of the Contract.

THE UNITED STATES OF AMERICA

By O O McKinney
Administrator, Defense Minerals
Exploration Administration

Indexed
Lawyer
Chiling
Ellis
Talbert
Selfridge
F G Johnson

MF-205
(Combines and supercedes MF-20[illegible] and MF-203)
June 1956

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Price Exploration Company
Docket No. DMEA- 3835
Contract No. Idm-E 908
Contract Date December 22, 1955

RECEIVED JUL 3 1957 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Campbell, State of Wyoming, described as follows: 2/

25 unpatented claims listed in Annex I of DMEA Contract Idm-E908 (DMEA-3835) dated December 22, 1955

, 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;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

NONE

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

2/ 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.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this 31st day of December, 1956.

Harold C. Price	[Seal]	Bartlesville, Okla.	[Address]
M. L. Price	[Seal]	Bartlesville, Okla.	[Address]
Harold C. Price, Jr.	[Seal]	Bartlesville, Okla.	[Address]
Joe D. Price	[Seal]	Bartlesville, Okla.	[Address]
E. L. Gallery	[Seal]	Bartlesville, Okla.	[Address]
R. K. Shivel	[Seal]	Bartlesville, Okla.	[Address]

Alton H. Rowland 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]

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 1957

DATE		CODE
7/5	C	220
7/8		800
		700

224 New Customhouse
Denver 2, Colorado

July 1, 1957

CERTIFIED MAIL

Mr. George Travis
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
(North Pumpkin Buttes)
Campbell County, Wyoming

Dear Mr. Travis:

After due consideration, the Government has decided that it prefers to terminate Contract No. Idm-E908 in its present status rather than to approve assignment of the Contract to Messrs. Gaul, Hendal, and Quigley, as requested.

For that purpose, enclosed are the Government's, Division, Audit, Finance Office, and Field Team copies of a proposed "TERMINATION AGREEMENT," which has been prepared to terminate the Contract, effective August 1, 1956.

If the Termination Agreement is satisfactory, the original and all copies are to be signed by the seven partners of Price Exploration Company as indicated and all promptly returned to this office; upon receipt of which, the "Operator's Copy" will be forwarded to you.

In the event the proposed Termination Agreement is not satisfactory, the original and all copies are to be promptly returned to this office, together with your comments thereon or objections thereto.

Very truly yours,

Original signed by
W. H. KING
W. H. King
Executive Officer, DMEA
Field Team, Region III

JWT:prl
cc: Chan. Op. Comm. (2)
Harshman
DMEA/DFC
Townsend

cc: Mr. W. Don Quigley
615 Newhouse Building
Salt Lake City, Utah

Corres. file
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/27	Ching	700
6/27	[illegible]	700
6-27	Chamberlin	800
6/28	SCS	130
6/24	Johnson	110
"	Letterly	100
7/1	C	220
		700

JUN 28 1957

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

Re: Docket No. DMA-3835 (Uranium)
Contract No. Ida-1908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. King:

In accordance with our teletype of June 18, we are enclosing the original and five copies of a Termination Agreement between the Government and Price Exploration Company, signed by the Administrator. Also enclosed are two extra copies of the agreement for the use of the Field Team.

If the agreement is in order, please secure the signature of all the partners on all copies and make the usual distribution thereafter.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JB)

Enclosures

APPROVED:

P. F. Yopes (JB)
Member, Bureau of Mines

N. E. Nelson (JB)
Member, Geological Survey

MChing/izm 6-27-57
cc to: Mr. Ching
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/19	Ching	700
6/20	Ellis	700
		220
		140

June 19, 1957

Memorandum

To: Associate Solicitor,
Division of Mineral Resources

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

Subject: Termination Agreement
Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

INTERIOR DEPT.
JUN 20 1957
SOLICITOR

Will you kindly prepare a Termination Agreement between the Government and the subject Operator in accordance with the attached draft.

Drilling under the contract was completed on June 25, 1956, but the effective date of the agreement is suggested as July 31, 1956, since certain analyses were made in July and the last voucher covered the month of July.

Ernest Wm. Ellis

Ernest Wm. Ellis

MChing/gla
cc to: Mr. Ching

RECEIVED
JUN 21 1957
ASSOC. SOLICITOR
MINERAL RESOURCES

8623

DRAFT
6/20/57
MChing/gla

DOCKET COPY

TERMINATION AGREEMENT

It is agreed this_____ day of _____, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Harold C. Price, M. L. Price, E. L. Gallery, Alton H. Rowland, Harold C. Price, Jr., Joe D. Price, and R. K. Shivel, partners, doing business as Price Exploration Company, hereinafter called the "Operator," parties to Exploration Project Contract Ida-P908 (Docket No. DMEA-3835), dated December 22, 1955, as amended, hereinafter called the "Contract," that:

1. Effective as of the close of business on July 31, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. All rights of the Government provided for in the Contract with respect to certification of discovery or development, percentage royalty and liens for its payment, records, audit, and recovery of any overpayment, are preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided

in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

_____ Harold C. Price (Partner)

_____ M. L. Price (Partner)

_____ E. L. Gallery (Partner)

_____ Alton H. Rowland (Partner)

_____ Harold C. Price, Jr. (Partner)

_____ Joe D. Price (Partner)

_____ R. K. Shivel (Partner)

d/b/a PRICE EXPLORATION COMPANY

OFFICIAL FILE COPY

Date	Surname	Code
6/18	Chyung	700
"	Ellis	700
6/18	GCS	130
6/18	Johnson	110
"	Mitchell	200
6/18	JWS	220
		700

JUN 18 1957

~~xxxxx~~ Dept. of the Interior

DMEA

14X4401(01) Revolving Fund, Defense Production Act, Interior (Transfer to Office of Secy.)

T E L E T Y P E

WILLIAM H. KING, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REURTT JUNE 12 AND MEMORANDUM JUNE 14 PRICE EXPLORATION COMPANY DOCKET 3835 WE WILL PREPARE TERMINATION AGREEMENT.

George C. Selfridge

CHAIRMAN, OPERATING COMMITTEE

MChing/gla
6-18-57
cc to: Admr.'s Reading File
Operating Committee
T.H.Kiilsgaard, 5224
MChing, Code 700
Confirmation to Region III

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 17 1957

DATE	INITIALS	CODE
6-17	C	220
		130
6-18	Cleny	700

June 14, 1957

(VIA AIR MAIL)

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Confirming advice to you in our teletype of June 12, 1957 enclosed are the original and three copies of a joint memorandum, dated June 12, 1957, from Norman P. Cuppels, Geologist, Geological Survey, and E. O. Binyon, Mining Engineer, Bureau of Mines, relative to termination of the contract in its present status instead of consummating the proposed assignment of the contract.

For reasons stated, the field examiners recommend that the contract be terminated in its present status and advise that tentatively it does not appear that a Certification of Discovery or Development will be recommended.

Any action by this office relative to the proposed assignment of the contract is deferred pending further advice from you.

W H King
W. H. King

Enclosures

1 set to USGS

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
JUN 13 1957
REGION III
DENVER, COLORADO

June 12, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 17 1957

DATE	INITIALS	CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman

From: Norman P. Cuppels
E. O. Binyon

Subject: Docket DMEA 3835 (Uranium), Contract Idm-E 908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming
REQUEST TO CANCEL STAGE II DRILLING AND TO PERFORM STAGE III AND IV DRILLING

The subject request was made in a letter from Gaul, Hendel, and Quigley, dated May 29, 1957.

Under Stage I of the contract the operators, during the period May 31 to June 25, 1956, drilled 130 holes with a total aggregate footage of 5,496 feet. Since that time no other work has been done on the property under the contract, but the operator reports he drilled about 40 holes in area C.

In the nine areas A, B, C, E, P, Q, R, V, and W drilled under Stage I probe results indicated mineralized holes in only three of these areas. Area B had three holes with mineralization ranging from 0.01 to 0.07 percent eU_3O_8. In area C six holes, C-7, C-9, C-15, C-18, C-19, and C-21 were found to be mineralized but only

four holes C-9, C-15, C-19, and C-21 gave probe readings indicating ore grade mineralization. One hole in area V (V-17) was slightly mineralized. The chemical analyses made of the cuttings from holes C-9, C-15, C-19, and C-21 which gave probe readings up to 1.5 percent showed ore-grade material in holes C-9 and C-21. Two samples from 9-11 feet in C-9 assayed 0.33 percent U_3O_8 and in C-21 two samples from 9-11 feet averaged 0.10 percent U_3O_8.

On July 11, 1956, the operator requested approval to drill 105 holes under Stage II of the contract to evaluate the mineralized rocks discovered in drill area C. On July 23, 1956, the Field Team denied this request but recommended that 13 holes be drilled as offsets to holes C-9, C-15, C-19, and C-21 drilled under Stage I. This recommendation was not accepted by the operator who drilled "40 some" holes at his own expense in the C-area to evaluate the mineralized ground. In the request for additional drilling, the operator reported to the Field Team that he had discovered ore in an area 100 feet long and 10 feet wide in drill area C. The ore is believed to be discontinuous and the operator is not sure it can be mined economically.

In the report of examination, the examining team recommended that drill areas A, B, C, E, F, P, Q, R, V, and W be drilled out under Stage I and that the results of this drilling be used as a guide for exploration in areas G, H, I, O, S, T, and U under Stage III. Results of Stage I have been unfavorable. Mineralized rocks discovered

in drill areas B and V are not considered significant and the favorable ground in area C has been delimited as described above. In view of the fact that Stage I drilling has not revealed any trends of mineralized rock or other indication that the drill areas of Stage III might be favorable, no justification can be found for continuing exploration in the subordinated area and we recommend termination of the contract.

At this time it does not appear that Certification of a Discovery will be recommended. The ore to be mined in area B was found and outlined by the applicant before work under the contract began. The amount of ore found by DMEA drilling in area C, and later outlined by the operators' drilling, appears to be insignificant. Confirmation of this fact must await a check of data on the operators' offset drilling around the four holes approved for offsetting by the Field Team in their work approval of July 23, 1956.

E. M. Hawkman
for Norman P. Cuppels
Geologist

E O Binyon
E. O. Binyon
Mining Engineer

OFFICIAL FILE COPY DMEA

DMEA

RECEIVED JUN 13 1957

DATE	INITIALS	CODE
6-13	C	220
"	King	700

DN 235 BU MINES 6-12-57 5 4-26

CHAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET 3835, CONTRACT IDM-E908, PRICE EXPLORATION COMPANY, YOUR LETTER OF JUNE 10,1957.

FIELD EXAMINERS RECOMMEND THAT THE CONTRACT BE TERMINATED IN ITS PRESENT

STATUS, SINCE STAGE 11 DRILLINT XX DRILLING PERFORMED BY ASSIGNEE AT ITS OWN EXPENSE AND INFORMATION AVAILABLE TO DATE INDICATES THAT STAGES 111 AND 1V NOT WARRANTED. REPORT WILL BE AVAILABLE FOR FORWARDING BY JUNE 14 AT LATEST. DEFERRING ACTION ON YOUR INSTRUCTIONS OF JUNE 10 UNTIL FURTHER ADVISED.

W H KING, EXECUTIVE OFFICER, DMEA

Denver, Colorado

JUN 13 8 58 AM '57
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

Form 7
-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/6	Ching	700
6/7	Ellis	700
6/7	GCS	130
		100
6/10	JWS	220
		700

JUN 10 1957

Mr. E. H. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3035 (Uranium)
Contract No. Ym-3908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Harshman:

With reference to your memorandum of May 31, 1957, on the subject project, it is evident that the Operator will not be able to secure a Subordination Agreement from the Schlautmanns.

Under the circumstances, the Administrator is waiving this requirement and you are authorized to forward the assignment documents to the Operator for execution and to prepare the amendment referred to in our letter of December 6, 1956, to Mr. Traver.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JKB)

APPROVED:

Frank D. Lamb (JKB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JKB)
Member, Geological Survey

MChing/gla
6-6-57

cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, Rm. 5224
Code 700, Mr. Ching

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/6	Ching	700
6/7	Ellis	700
		130
		100
		220
		700

June 6, 1957

Memorandum

To: The File

From: Michael Ching, Mining Engineer
Division of Rare and Miscellaneous Metals

Subject: Waiving of Requirement for Subordination Agreement
Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

The property covered by the subject contract is owned by W. Don Quigley, George H. Gaul, and Robert H. Miller, and leased to Price Exploration Company, the Operator, by a Lease Agreement, dated November 30, 1954.

By an Assignment, dated July 30, 1956, Price Exploration Company assigned its lease to George H. Gaul and W. Don Quigley, and by an Assignment, dated October 18, 1956, George H. Gaul and W. Don Quigley assigned an undivided one-third interest in the lease to Charles W. Hendel.

By letter of October 22, 1956, Price Exploration Company requested Government approval of the assignment of the subject exploration contract to Gaul, Hendel and Quigley, a joint venture.

The contract includes a Consent to Lien by the owners, Quigley, Gaul and Miller, and a Subordination Agreement by Charles and John Christensen, surface right owners and royalty claimants.

The request by the Operator for assignment of the contract brought out the fact that Wendell J. Schlautmann and Theresa J. Schlautmann, surface right owners, held a 4 per cent royalty claim on production from the Colorado Nos. 4, 5, 8, and 9 claims and the Utah Nos. 11, 12, and 13 claims, 7 of the 25 claims covered by the contract. Since the Government was unaware of this claim at the time the contract was negotiated, no Subordination Agreement was secured from the Schlautmanns.

An Assignment of Contract, Assignee's Acceptance, and Government's Consent was forwarded to the Executive Officer, Region III, with instructions to forward the documents for execution pro-

vided that a Consent to Lien and Subordination Agreement was received from Price Exploration Company and from the Schlautmanns. Such an agreement has been received from the former, but a letter, dated May 29, 1957, from Gaul, Hendel and Quigley indicates that the Schlautmanns have steadfastly refused to subordinate their royalty claim to that of the Government.

The contract provides for four stages of work, Stages I and II covering areas A, B, C, E, P. Q. R. V, and W, and Stages III and IV covering areas G, H, I, O, S, T, and U.

One hundred thirty holes, aggregating 5,496 feet, were completed under Stage I and 4 holes penetrated significant mineralization that warranted offset drilling under Stage II. However, at this point the assignee Operator elected to do offset drilling under Stage II for its own account and has requested that Stage II work under the contract be cancelled. However, it has advised Mr. Harshman that as soon as the assignment of the contract is completed it wishes to proceed with Stages III and IV. Since work under these stages will be on land which is not subject to royalty claims by the Schlautmanns, there appears to be no point in holding up approval of the contract assignment because of the Schlautmanns' refusal to subordinate their royalty claim on land on which no further contract work will be done.

Under the circumstances, it is recommended that the requirement of a Subordination Agreement from the Schlautmanns be waived, and that Mr. Harshman be instructed to release the assignment papers for execution so that the subject contract may be allowed to proceed.

Michael Ching

Michael Ching

MChing/gla
6-6-57
cc to: Mr. Ching

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 3 1957

DATE	INITIALS	CODE
6/3	C.	220
6/3	Chng	700

May 31, 1957

VIA AIR MAIL

Memorandum:

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Enclosed are the original and three copies of a letter from W. Don Quigley, dated May 29, 1957, and the original and five copies of form MF-205, Consent to Lien and Subordination Agreement, which have been signed by the partners of Price Exploration Company.

The Consent to Lien forms were forwarded by your letter of December 6, 1956, together with six copies of a form prepared to effect assignment of the Contract. We were instructed to hold the assignment document until we had been furnished with the executed Consent to Lien and Subordination Agreements. However, as stated in Mr. Quigley's letter of May 29, they have been unable to obtain signatures on one set of forms which were prepared for signature by Wendell J. Schlautmann and Theresa J. Schlautmann.

Under date of July 23, 1956, the DMEA Field Team, Region III, approved thirteen (13) offset holes for drilling under Stage II of the Contract. However, the proposed assignees elected to drill those and other offset holes at their own expense, and now request that Stage II work be cancelled.

Under the circumstances, we are holding the Assignment of Contract form until further advised by you as to how we should proceed.

E. N. Harshman

E. N. Harshman

W. DON QUIGLEY
GEOLOGIST
615 Newhouse Bldg. - Salt Lake City, Utah
PHONE 9-3575

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 3 1957

DATE	INITIALS	CODE

May 29, 1957

DMEA
DEPARTMENT OF THE INTERIOR
MAY 31 1957
REGION III
DENVER, COLORADO

Mr. E. N. Harshman
DMEA Field Team Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. 3835
Contract No. Idm-E908

Dear Mr. Harshman:

We still have not received the Consent to Lien and Subordination Agreement which was supposed to be signed by Mr. Schlautmann. He is reluctant to sign the agreement since he feels that his royalty would be subordinate to the royalty going to the government. He is only the surface owner and we gave him a royalty to take care of any damages which might be incurred by mining operations. We have attempted to explain the matter in detail to him but have not been successful in obtaining his signature on the Consent to Lien form. Perhaps DMEA can allow us to omit his signature and continue with the project.

We wish to formally cancel Phase II of the subject loan, since we have drilled, on our own, an additional 40 some holes on the "C" ore body. We did not feel that the 13 holes allowed by DMEA on Phase II was sufficient for outlining the prospective area. This area is now completely drilled out and we have located an ore body approximately 100 feet long and 10 feet wide. The body does not have continuous ore of commercial grade, and we are not sure that it can be mined economically. AEC has allowed us only one bonus on the entire property and our mining operations are quite marginal since the bonus payments have ceased.

We have stripped the "B" ore body of surface waste and will probably begin mining it in the next couple of months. DMEA will receive royalty as soon as the mining operations begin.

We will probably want to continue Phase III and IV of the DMEA loan as soon as we receive approval from the DMEA. Returned herewith are the Consent to Lien forms which have been signed by the Price partners, this is in accordance with your letter of May 9, 1957 to Mr. Hendel, in regard to the above subject. In accordance with that letter we would like to extend the date for the completion of work from October 31, 1956 to October 31, 1957. We would also like to extablish a recess of operations from June 25, 1956 to July 15, 1957, at which time work on the DMEA will be resumed, if all matters have been approved by DMEA. We would also like to extend the maximum period for the payment of royalties and lien as provided in the contract from ten years to twelve years from the date of the contract.

In accordance with your letter of May 9, 1957, items 2 and 3 of that letter, will be completed by your office upon receipt of the information and documents contained herein. The only thing we lack is the Consent to Lien forms, which should be executed by Mr. Schlautmann, the owner of the surface rights. We have tried everything in our power to get his signature without success and have no real hope of obtaining it in the future.

Sincerely,

W. Don Quigley

W. Don Quigley

C. W. Hendel

C. W. Hendel

George H. Gaul

WDQ:wa

P. S. Please send us two copies of your reply.

OFFICE FILE COPY DMEA RECEIVED MAY 30 1957		
DATE	INITIALS	CODE
5/29	C	220
5/31	[illegible]	800
"	[illegible]	700

224 New Customhouse
Denver 2, Colorado

May 27, 1957

Mr. George Travis
Price Exploration Company
P. O. Box 1263
Grand Junction, Colorado

Re: Docket No. DMEA 5835 (Uranium)
Contract No. Idm-2908
Price Exploration Company
(North Pumpkin Buttes Property)
Campbell County, Wyoming

Dear Mr. Travis:

Reference is made to your letter of May 24, 1957 wherein you request to be advised as to when Price Exploration Company may expect to receive the $486.25 withheld by this office from reimbursement in processing forms MF-104 for the months of June and July, 1956.

Final reimbursement to you of the amount withheld cannot be effected until one or the other of the following is resolved:

1. Execution of the assignment of the Contract by the parties concerned and resumption of operations by the new operating partners.

2. Termination of the Contract in its present status, receipt from you of a final engineering and geologic report and final accounting as provided for under Article 7(c) of the Contract, and release to this office of a Report of Audit or Report of Review of reported project costs by the Contract Administration and Audit Division, DMEA.

Relative to matter under item 1, we wrote to Mr. Kendel under date of May 9, 1957 and outlined the prerequisites to resumption of operations under the Contract, which include execution and return of Owner's Consent to Lien forwarded by our letter of December 10, 1956 and execution of the assignment of contract instrument by the parties concerned. The former is a prerequisite to release of the latter for signature.

We received a reply from Mr. Handel, wherein he advised that attempt is being made to obtain signatures to the Consent to Lien forms.

It is to the interest of the Government that one or the other of the foregoing matters be resolved without further delay.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:prl

cc: Chmn.Op.Comm.-2) w/copy of
Harshman) Mr. Travis's
Konselman) letter of
Townsend) May 24.
Corres. file)
Chron.

PRICE EXPLORATION COMPANY

HAROLD C. PRICE—MANAGING PARTNER

BOX 1111

BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

DMEA
DEPARTMENT OF THE INTERIOR

May 24, 1957.

MAY 27 1957
REGION III
DENVER, COLORADO

Mr. W.M.Traver, Exec.Officer,
DMEA Field Team, Region 111,
224 New Customhouse,
Denver, Colorado.

Re: Contract No. Idm-E908
Docket No. DMEA 3835

Dear Mr. Traver:

Effective Aug. 1,1956, the Price Exploration Co., sold its North Pumpkin Buttes property, covered by the above referred Docket number, to Hendel, Gaul and Quigley. This was after Phase 1 drilling had been completed. Reimbursement for 75% of Phase 1 costs has been received from DMEA, except for a withheld amount of $486.25.

Mr. Quigley has advised that Phase 2 has been completed without DMEA aid, and that instead of the 13 required holes, they have drilled 40 additional holes in the "C" ore body and have outlined an area that can be profitably mined. He further advised that they may request DMEA aid for Phases 3 and 4.

Would you please advise when Price Exploration Co., may expect to receive the $486.25 balance due from DMEA for Phase 1 costs.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 29 1957

DATE	INITIALS	CODE

Very truly yours,

Price Exploration Co.
by George Travis

Box 1283,
Grand Junction,
Colorado.

GAUL, HENDEL & QUIGLEY

C. W. HENDEL
GEOLOGIST

615 NEWHOUSE BUILDING SALT LAKE CITY 11, UTAH

TELEPHONE
EL 9-3575
HU 4-4694

DMEA
DEPARTMENT OF THE INTERIOR
MAY 13 1957
REGION III
DENVER, COLORADO

May 12, 1957

Mr. E. N. Harshman
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Prop.
Campbell County, Wyoming

Dear Mr. Harshman:

We have received your letter of May 9, 1957.

Mr. Quigley and Mr. Gaul are now at the mine and they are aware of the necessity for getting the Lien & Subordination Agreement signed by Mr. Schlautmann, the royalty holder. We have written him, and our foreman has attempted to get his signature for some time; however, I believe that it can be done with two of us up there in person.

Thank you for the reminder.

Very truly yours,

C. W. Hendel

5/13/57
Copies distributed to:
Chairman (2)
Harshman
Konselman
Townsend

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 17 1957

DATE	INITIALS	CODE
5/17	C	220
5/17		800
5/20	Chng	700

OFFICIAL FILE COPY
D M E A
RECEIVED MAY 13 1957

DATE	INITIALS	CODE
5/13	C	220
5/14	WW	800
		225
		700

224 New Customhouse
Denver 2, Colorado

May 9, 1957

Mr. G. W. Mendel III
Gaul, Mendel and Quigley
615 Newhouse Building
Salt Lake City, Utah

Re: Docket No. DMEA 3835 (Uranium)
Contract No. I6m-2908
Price Exploration Company
(North Pumpkin Buttes Property)
Campbell County, Wyoming

Dear Mr. Mendel:

In your letter to Mr. Mittendorf, dated March 1, 1957, you estimated that work would be resumed by May 30, 1957.

In regard to resumption of work under the Contract, the following matters must be resolved in order to place the Contract back in force:

1. Return of the executed copies of the Consent to Lien and Subordination Agreement forms forwarded to Mr. Quigley by our letter of December 10, 1956.

2. Execution of an instrument to effect assignment of the Contract from the partners of Price Exploration Company to the new operating joint venture.

3. Execution of an amendment to the Contract which would provide for the following:

   (a) Extend the date fixed for completion of the work from October 31, 1956 to a date in the future designated by you, prior to which work would be completed.

   (b) Establish a recess of operations from June 25, 1956 to a future date established by you on or before which work would be resumed.

   (c) Extend the maximum period for the payment of royalties and lien for payment thereof, as provided in the Contract, from ten years to twelve years from the date of the Contract.

Release to you for signature of the instrument under item 2, to effect assignment of the Contract, is contingent upon return of the executed copies of the Consent to Lien and Subordination Agreement. Also, preparation of the Amendment under item 3 and the forwarding of it to you is contingent on the return of the Consent to Lien and Subordination agreement forms, and contingent on your forwarding information as to the dates mentioned under subitems (b) and (c) of item 5.

From the foregoing, you can see that considerable time might be consumed before all matters are resolved which are a prerequisite to resumption of work under the Contract, and it appears a major portion of the delay would be involved in obtaining signatures to the various instruments.

Under the circumstances, please state your position in the matter and advise your plans relative to resumption of work. Both will be appreciated by return mail.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
NMSA Field Team, Region III

JWT:prl

cc: Chmn. Op. Comm. - 2
Harshman) w/copy of Chairman's
Konselman) letter of May 6, 1957.
Townsend
Corres. file
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/3	Ching	700
"	Ellis	700
5/6	Selfridge	130
5/6	[illegible]	110
"	[illegible]	100
5/6	[illegible]	220
		225

6 MAY 1957

Mr. B. H. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Contract No. 3dm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Harshman:

By letter of March 1, 1957, a copy of which was sent to your office, Caul, Hendol and Quigley replied to the Administrator's letter of December 6 and, in effect, answered Mr. Traver's letter of December 10, 1956.

Please advise the status of this project and initiate whatever action you deem advisable at this time.

Sincerely yours,

George C. Selfridge
(By ex)

Chairman, Operating Committee

APPROVED:
Frank D. Lamb (By ex)
Member, Bureau of Mines

N. E. Nelson (By ex)
Member, Geological Survey

MChing/gla
5-3-57
cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, Rm. 5224
Code 700, Mr. Ching
Code 700 contract file

8623

TELEPHONE
9-3575
84-4694

C. W. HENDEL
GEOLOGIST

615 NEWHOUSE BUILDING SALT LAKE CITY 1, UTAH

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 4 1957

DATE	INITIALS	CODE
3/4	C	220
3-4	~~Chang~~	700
		225

March 1, 1957

Mr. C. O. Mittendorf
United States Department of Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
North Pumpkin Buttes
Campbell County, Wyoming

Dear Mr. Mittendorf:

I am sorry that through on oversight we failed to acknowledge your letter of December 6, 1956.

1. We understand your clarification of the royalty status on the "B" & "C" ore-bodies; ie, that they are subordinated. No mining has been done to date on any but the "F" ore-body, which was not subordinated.

2. With regard to the transfer of the DMEA loan from Price to us (Traver's letter December 10, 1956):

(a) The last work performed on the DMEA was in June 1956, by Price Exploration Company.

(b) We estimate that by May 30, 1957, we can begin work on the DMEA loan, Phase II. Primary consideration here is the weather; the cold winter and lack of snow cover makes our open pit operation uneconomical. As we understand it, you still need the subordination agreement (MF 205) signed by Price, and the "Surface Damage" royalty owner, Mr. Schlautmann. We forwarded the papers for Mr. Schlautmann's signature, but as yet he has not returned them. A partial explanation of this may lie in the fact of recent trouble between one of our miners and his family, as well as lack of royalty payments to date. Accordingly we would like an extension until May 30, 1957.

No action required. This letter answers Mr. Traver's letter of Dec. 10, 1956. as well as ours of Dec. 6, 1956 and Feb. 15, 1957. Copy sent to Traver. WWC

(c) We estimate that, once started, the work on Phase II can be completed in a day or two. Phase III and IV will take as much as three (3) months to complete, because it is our wish to map the channel trends more thoroughly, and possibly eliminate some of the wildcatting of Phase III. We will of course, submit a plan of any change in proposed spacing or number of holes with explanation for this change.

3. We are sorry for the confusion in the matter of this transfer of loan. When we took assignment of the property in August, we were told by Price that there were three (3) bonuses (Letter of application by Mr. Travis, agent, appeared to substantiate this). Because we find now that we have "lost" the bonus on the two other ore-bodies not yet mined, the relations with the other royalty owners have not been good. Also we were not aware of the subordination of the "B" ore-body (found before loan application). These two factors have necessitated a complete change in our operations to reduce costs to absolute minimum. Winter mining is now uneconomic.

We trust that this letter answers your questions, and that you see fit to extend the period or "recess" between Phases I & II.

Very truly yours,

GAUL, HENDEL & QUIGLEY

C. W. Hendel III
Co-Lessee

CWH:wa
CC: W. M. Traver
Elmer Gallery

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/14	Ching	700
2-15	Ellis	700
2-15	Chambers	800
"	Johnson	110
"	Mittendorf	100
2/18	C	220

~~700~~ 225

FEB 15 1957

Mr. George G. Travis, Agent
Price Exploration Company
Post Office Box 1283
Grand Junction, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Travis:

Please refer to my letter of December 6, 1956, regarding royalties under the subject contract. No reply having been received from you, it is requested that you advise us promptly of your intentions regarding this project.

The last work done under the contract was completed in June, 1956. The contract completion date of October 31, 1956, has long since passed. In a letter, dated December 10, 1956, to Mr. W. Don Quigley, our Executive Officer at Denver, Mr. W. H. Traver, outlined the Government's requirements in connection with the proposed assignment of the contract. To date we have received no advice that these requirements have been met.

We wish to cooperate fully with you in allowing sufficient time to resolve these matters, but, if we do not hear from you within 30 days from the date of this letter, we shall take whatever steps are necessary to protect the Government's interests.

Sincerely yours,

C. O. Mittendorf

Administrator

Copies to: W. Don Quigley, Consulting Geologist
Price Exploration Company
615 Newhouse Building
Salt Lake City, Utah

Harold C. Price, Managing Partner
Price Exploration Company
Box 1111
Bartlesville, Oklahoma

MChing/gla 2-14-57
cc to: Admr.'s Reading File
Code 700
Mr. Ching
DMEA Field Team, Region III(2)
THKiilsgaard, 5224
Jack Kratchman-AEC

8623

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

224 New Customhouse
Denver 2, Colorado

December 10, 1956

RECEIVED
DEC 12 1956
D.M.E.A.

Mr. W. Don Quigley
Consulting Geologist
Price Exploration Company
615 Newhouse Building
Salt Lake City, Utah

Re: Docket No. DMEA 3835 (Uranium)
Contract No. Idm-E908
Proposed Assignment of Contract
from Price Exploration Company
to Gaul, Hendel, and Quigley, a
Joint Venture
(North Pumpkin Buttes)
Campbell County, Wyoming

Dear Mr. Quigley:

In conjunction with the proposed assignment of Contract No. Idm-E908, we are enclosing two sets, consisting of the original and six copies, of form MF-205, "Consent to Lien and Subordination Agreement," which are to be signed by the persons as indicated in the space reserved for signatures.

On all copies of each set, item 4 is to be filled in by the signers, and after being properly executed by the parties concerned, the original and five copies of each set are to be returned to this office; the remaining copy to be retained by the signers.

Another matter to be resolved in conjunction with the proposed assignment of the Contract is that it will be necessary for the parties concerned to execute an agreement to a recess of operations under the Contract for the period the work was suspended pending resolution of the proposed assignment of the Contract. Also, it will be necessary that the completion date and the maximum period for royalty payments be extended for an appropriate additional time. Therefore, please supply the following information when you return the executed copies of form MF-205, "Consent to Lien and Subordination Agreement:"

1. The date the last work was performed under the Contract.

2. The date on or before which work will be resumed (to be estimated in conjunction with the future date on which the approved copy of the Assignment of Contract is received by the Assignee).

3. The period of time required after resumption of work that will be necessary to enable completion of the remaining work provided for in the contract.

Final action by the Government on the proposed Assignment of the Contract is contingent on satisfactory resolution of the foregoing and clarification of the matters discussed in the letter, dated December 6, 1976, to Mr. George C. Travis, Agent, Price Exploration Company, from G. O. Mittendorf, Administrator, ERDA, a copy of which was forwarded to you.

Very truly yours,

Original signed by
W. M. TRAVER

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

Enclosures

JWT:prl

cc: Chairman, Op. Comm. (2)
Marshman
Shaw
Townsend
Corres. file
Chron.

700

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

FILE COPY
Surname:
Ching
Ellis
Fulbright 12/3/56
Lathrop
Lamb
Ridgeway
Selfridge
Hyndman

Mr. George G. Travis, Agent DEC 6 1956
Price Exploration Company
Post Office Box 1283
Grand Junction, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Contract No. Idm-1908
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Travis:

Your letter of November 23 and that of W. Don Quigley, dated November 19, 1956 have been referred to this office for consideration and reply.

You will recall that in your application for aid in an exploration project under form MF-103, you stated the legal description of the land upon which you wished to explore, including all land which you possessed or controlled that may be benefited by the exploration, and excluding any land or interest in land which was not to be included in the exploration project contract. Accordingly, the contract as executed, includes an Annex I which describes in detail the land which is subject to the terms of the contract.

Article 8(b) of the contract provides that 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, from the date of the contract until certain specified conditions are met. The "land" as used in the contract is all of the land described in Annex I. No provisions were requested or made for exclusion of special areas by reason of work done prior to the contract. The fact that the DMEA drilling was not contributory to the discovery and location of an ore body does not exclude that ore body from the area covered by the contract.

We trust that the foregoing explanation will clarify the question of royalties on the "B" and other ore bodies within the area described in Annex I. It is requested that you give us a prompt reply inasmuch as clarification of this question is necessary before an extension of the contract period and consent to the assignment of the contract are in order.

Sincerely yours,

C. O. Mitcheltree

Administrator

Copy to: Mr. W. Don Quigley, 615 Newhouse Bldg., Salt Lake City, Utah

MChing/izm 12-3-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
DMEA FT, Reg. III (2)
Messrs. JECrawford, 3643
THKillsgaard, 5224
JOHosted, 3210, GSA

R.G.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR 140
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Indritz
Dwyer
Ching
Ellis
Fachet

Messrs. Gaul, Hendel & Quigley
C/o C. W. Hendel
615 Newhouse Building
Salt Lake City 11, Utah

Mr. George G. Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
North Pumpkin Buttes
Campbell County, Wyoming
Contract No. Idm-E908

Gentlemen:

Reference is made to your request of October 22, 1956, that the Government approve the assignment of Exploration Project Contract Idm-E908 (Docket No. DMEA-3835), dated December 22, 1955, from Price Exploration Company to Messrs. George H. Gaul, W. Don Quigley, and Charles W. Hendel III, acting as a joint venture.

Enclosed are six copies of the required form of assignment, to be executed by all the parties and returned to this office for approval. You are advised that the Government's approval will be withheld until you have furnished Consents to Lien and Subordination Agreements executed by each of the seven partners of the Price Exploration Company, and by Wendell J. Schlautmann and Theresa J. Schlautmann, with respect to the royalty rights held or reserved, respectively, by these persons. For your convenience, there are enclosed six copies of two sets of forms of Consent to Lien and Subordination Agreements to be executed as specified above. The signers should be requested to fill in item 4 of the Agreements.

Sincerely yours,

Administrator

PIndritz/wog
November 27, 1956
Copy to: DMEA Docket
Admin. Read. File
Operating Com.
J.L.Chambers
J.E.Crawford/3641
T.H.Kiilsgaard/5224
J.O.Hosted/3210 GSA
Field Team, Reg. III (2)
E.W.Ellis (2)
R.P.Dwyer
P.Indritz
Pending
Chron.

Enclosures to Mr. Travis

700

FILE COPY
Surname:
Chang
Selfridge
Mottendorf

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

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

DEC - 6 1956

Re: Docket No. DMEA-3635 (Uranium)
Contract No. Idm-1908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Traver:

In response to your memorandum of November 16, regarding assignment and extension of the subject contract, we are enclosing six copies of the required form of assignment, executed by the Administrator. Also enclosed are two sets of Consent to Lien and Subordination Agreement forms to be executed by each of the seven partners of the Price Exploration Company, and by Wendell J. Schlautmann and Theresa J. Schlautmann. The signers should be requested to fill in item 4 of the forms. The seventh copy in each set is for the signers.

Please hold the assignment documents until you have been furnished the executed Consents to Lien and Subordination Agreements.

With respect to the proposed extension of the contract, we believe that the required amendment should be coordinated with securing the Consents to Lien and Subordination Agreements and execution of the assignment papers. Since a recess period appears to be involved, it is requested that the proposed amendment be prepared by your office in accordance with requirements. The royalty repayment period should also be extended.

The foregoing matters should also be related to the Administrator's letter of even date to Price Exploration Company regarding royalties on the "B" and other ore bodies within the area covered by the contract. We shall advise you promptly of the Operator's response.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures
APPROVED:

Frank D. Lamb
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

MChing/izm 12-4-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.S.

CW

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

224 New Customhouse
Denver 2, Colorado

November 26, 1956

RECEIVED
NOV 29 1956
D.M.E.A.

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes, Campbell County, Wyoming

Enclosed for your consideration and rendering of a decision are two photocopies of a statement dated November 23, 1956 by the Operator, wherein he feels production from the "B" ore body should not be included under the jurisdiction of Contract Idm-E908.

Two copies of all previous correspondence on the matter have been furnished to your office.

It is our opinion that the Operator desired DMEA assistance on Colorado No. 4 claim. That desire is expressed by his signature to the contract which subordinates production therefrom to the Government. Accordingly, this office believes that an exception to the terms of the contract is not warrented.

W. M. Traver

W. M. Traver

Enclosure

PRICE EXPLORATION COMPANY

HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

RECEIVED
NOV 26 1956
DMEA

Nov.23,1956.

DMEA
DEPARTMENT OF THE INTERIOR
NOV 26 1956
REGION III
DENVER, COLORADO

Mr. W.M.Traver,
Executive Officer,
DMEA Field Team,
Denver, Colo.

Re: Docket DMEA (Uranium), Contract Idm-E908, Price Exploration Co., (North Pumpkin Buttes, Campbell County, Wyoming.

Dear Mr. Traver:

In re your letter of Nov.20,1956, the undersigned concurs with Mr. Quigley's statement, that the "B" ore body found and located on Colorado No.4 Claim prior to DMEA drilling, should be excluded from jurisdiction of the DMEA contract, for the reason that DMEA drilling was not contributory to the discovery and location of said ore body.

Yours very truly,

Price Exploration Co.
by George P. Travis

Box 1283,
Grand Junction,
Colorado.

Chas Dow. Quigley (2)

3/56

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

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

November 20, 1956

RECEIVED NOV 23 1956

Mr. George G. Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Dear Mr. Travis:

In response to our letters of October 12 and November 7, 1956, Mr. W. Don Quigley by letter dated November 19, 1956, has indicated that the "B" ore body is located on the Colorado #4 claim. This claim is included in Annex I to DMEA Contract Idm-E908. Mr. Quigley feels that the "B" ore body does not come under Contract Idm-E908, and hence, the provisions relating thereto do no apply.

If you concur with Mr. Quigley in this respect, we will appreciate receiving a statement to the effect by return mail. The matter can and will then be referred to the DMEA Washington Office for a decision.

For your information we enclose a photocopy of Mr. Quigley's letter of November 19.

Yours very truly,

Original signed by
W. M. TRAVER

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

Enclosure

MHM/vj

cc: Royalty File E908
Corres. File E908 w/cy Quigley's ltr dtd 11/19/56
Sec. Opr. Comm. (2) " " " " "
J. F. Shaw (2) " " " " "
Marshall
Chron.

PHONE ELGIN 9-3575

W. DON QUIGLEY

CONSULTING GEOLOGIST

URANIUM - OIL - MINING WORK

615 Newhouse Bldg. - Salt Lake City, Utah

DMEA
DEPARTMENT OF THE INTERIOR
NOV 20 1956
REGION III
DENVER, COLORADO

November 19, 1956

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

Re: Docket DMEA 3835 (Uranium),
Contract Idm-E908, Price Exploration
Company, (North Pumpkin Buttes),
Campbell County, Wyoming

Dear Mr. Traver:

Reference is made to Harshman's letter of Oct. 12, 1956, and your letter of November 7, 1956 on the above subject. These letters requested information from us in regard to the mining of the "B" ore body designated and outlined in the material contained in the application for the loan.

Since mining operations have not yet begun on this ore body, no ore has been removed. We had contemplated to begin mining operations on this body about the middle of October; however, inclement weather at that time and since has prevented the start of these operations.

We still feel that the "B" ore body does not come under the DMEA contract, Idm E908. All drilling on this ore body was done prior to the approval of the application. Since some holes drilled under the subject contract were on the Colorado #4 claim, on which "B" ore body is located, the government is contending that this ore body becomes a part of the contract. If such is the case, then 75% of the cost of the drilling on the "B" ore body and west half of the claim ought to be included in the contract and payment be made to us accordingly. However, since the west part of the claim was thoroughly drilled prior to the effective date of the contract, and since the cost of this

drilling has not been shared by the D. M. E. A., it seems improper to consider this part of the claim under the jurisdiction of the contract.

Sincerely yours,

W. Don Quigley

W. Don Quigley

WDQ:wa

Ching
Ellis

November 20, 1956

Memorandum

To: Associate Solicitor,
Division of Mineral Resources

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

Subject: Assignment of Contract
Docket No. DMEA-3835 (Uranium)
Contract No. Idm-E908
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

By letter of October 22, 1956, Price Exploration Company requested Government approval of the assignment of the subject contract to Gaul, Hendel and Quigley, a joint venture.

By an Assignment, dated July 30, 1956, Price Exploration Company assigned its lease on the subject property to George H. Gaul and W. Don Quigley without, however, expressly referring to and providing in the assignment for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof.

By an Assignment, dated October 18, 1956, George H. Gaul and W. Don Quigley assigned an undivided one-third interest in the lease to Charles W. Hendel.

The above instruments have also brought out the fact that under date of August 9, 1955, a Royalty and Surface Damage Agreement was entered into by Wendell J. Schlautmann and Theresa J. Schlautmann and Price Exploration Company under which the latter agreed to pay a royalty of 4% on all ores mined from certain claims covered by the subject exploration contract. This agreement was not brought to the Government's attention at the time the exploration contract was negotiated; therefore a Subordination Agreement wasnot obtained from the Schlautmanns. You will note that the Consent to Lien signed by the owners (Quigley, Gaul and Miller) on November 16, 1955, showed the prior claim of Charles and John Christensen, but not that of the Schlautmanns.

Will you kindly review the above-mentioned documents and prepare the necessary letter to Price Exploration Company, listing the conditions that must be satisfied before the Government can approve an assignment of the exploration contract.

Ernest Wm. Ellis

Ernest Wm. Ellis

MChing/gla
11-20-56
cc to: Docket
Code 700
Mr. Ching

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

224 New Customhouse
Denver 2, Colorado

November 16, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 3835 (Uranium), Contract No. Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming - Proposed Assignment of Contract.

Reference is made to a letter from this office, dated August 22, 1956, to Mr. C. W. Hendel, two copies of which, with attachments, were forwarded to you at the time of writing, pertaining to assignment of the subject contract from Price Exploration Company to Gaul, Hendel & Quigley, a joint venture.

In conjunction with the matter, we are enclosing the following instruments:

1. Two photostats of the original Assignment from Price Exploration Company to Gaul & Quigley.

2. Two photostats of the original Assignment from Gaul & Quigley to Hendel.

3. The original and two copies of a request, dated October 22, 1956, signed by the parties concerned, for the Government's approval of the assignment of the contract.

The date fixed for completion of the project work expired October 31, 1956. If the assignment of the contract is to be approved, we recommend that an amendment be prepared to extend the contract for a full two years from the date of the contract, or to December 22, 1957.

RECEIVED
NOV 19 1956
D.M.E.A.

This office recommends assignment of the contract as requested, and suggests that as a means of expediting the matter, if additional information or instruments are needed, that the request be made direct by your office to the proposed assignor and assignees.

W. M. Traver

W. M. Traver

Enclosures

RECEIVED
NOV 19 1956
D.M.E.A.

W.O.

GAUL, HENDEL & QUIGLEY

C. W. HENDEL

GEOLOGIST

615 NEWHOUSE BUILDING SALT LAKE CITY 11, UTAH

TELEPHONE
EL 9-3575
HU 4-4694

DMEA
DEPARTMENT OF THE INTERIOR
NOV 15 1956
REGION III
DENVER, COLORADO

October 22, 1956

Mr. W. M. Traver
Defense Minerals Exploration Administration
U. S. Dept. of Interior
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA 3855 (Uranium)
Contract Idm-E908
Price Exploration Co.
(North Pumpkin Buttes)
Campbell Co., Wyoming

Dear Mr. Traver:

We the undersigned hereby request the Government's approval of the assignment of Contract Idm-E908, from Price Exploration Company, to Gaul, Hendel & Quigley (a joint venture).

Enclosed are
1.: Four photostats of the original assignment from Price to Gaul & Quigley.
2 : Four photostats of the original assignment from Gaul & Quigley to Hendel
3 : Five copies of this letter - a request for Government approval of Contract Idm-E908

Sent 10/23/56 under separate cover-hand.

Very truly yours,

Harold C. Price
Harold C. Price

M. L. Price
M. L. Price

Harold C. Price Jr.
Harold C. Price Jr.

Elmer L. Gallery
Elmer L. Gallery

Alton H. Roland
Alton H. Roland

Joe D. Price
Joe D. Price

R. K. Shivel
Robert K. Shivel

For Price Exploration Co., a co-partnership, Assignor.

***

George H. Gaul
George H. Gaul

W. Don Quigley
W. Don Quigley

Assignees - Assignors to Hendel

Charles W. Hendel
Assignee C. W. Hendel

For Gaul & Quigley, and
For Gaul, Hendel & Quigley
(joint venture)

3

GAUL, HENDEL & QUIGLEY

C. W. HENDEL
GEOLOGIST

615 NEWHOUSE BUILDING SALT LAKE CITY 11, UTAH

TELEPHONE
EL 9-3575
HU 4-4694

October 23, 1956

DMEA
DEPARTMENT OF THE INTERIOR
OCT 24 1956
REGION III
DENVER, COLORADO

Mr. W. M. Traver
Defense Minerals Exploration Administration
U. S. Dept. of Interior
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA 3855 (Uranium)
Contract Idm-E908
Price Exploration Co.
(North Pumpkin Buttes)
Campbell Co., Wyoming

Dear Mr. Traver:

Enclosed are: 1. Four photostats of the original assignment from Price to Gaul & Quigley

2. Four photostats of the original assignment from Gaul & Quigley to Hendel.

The letter requesting government approval has been forwarded to Price Exploration Company for all the partners signatures. There will probably be some delay on this, but you should receive it within thirty days.

Sincerely yours,

C. W. Hendel III

CWH:wa
Enclosures

ASSIGNMENT

THIS ASSIGNMENT, made and entered into this 18th day of October, 1956, by and between GEORGE H. GAUL and W. DON QUIGLEY, hereinafter referred to as "ASSIGNORS", and CHARLES W. HENDEL, hereinafter referred to as "ASSIGNEE",

W I T N E S S E T H:

RECITALS:

1. Under date of November 30, 1954, W. Don Quigley, George H. Gaul and Robert H. Miller, as Lessors, executed and delivered a Lease Agreement to Price Exploration Company, a co-partnership composed of H. C. Price, M. L. Price, E. L. Gallery and Alton H. Roland, co-partners, as Lessees, (hereinafter for convenience referred to as "Price") covering the hereinafter more particularly described twenty-five (25) mining claims and mining properties situated in Campbell County, Wyoming, which Lease Agreement was subject to a reservation to said Lessors of a royalty of nine percent (9%) of the gross proceeds from the sale of any ores produced and sold from said mining claims and an additional amount equal to twenty percent (20%) of the net proceeds received from the sale of any ores produced and sold from said mining claims after "recoupment by Lessees of the cost actually expended by them prior to the placing of the property on production;" and

2. Under date of February 7, 1955, Charles Christensen and John Christensen of Gillette, Wyoming, entered into a Royalty and Surface Damage Agreement with said Price Exploration Company whereby said Price Exploration Company agreed to pay a certain therein specified cash amount for surface damages and to pay a graduated royalty ranging from three percent (3%) to a maximum of six percent (6%), which graduated royalty is computed in the manner more particularly therein specified, on ores mined and extracted from the Utah Nos. 1, 2, 3, 4, 5, 7, 8, 9, 10, Arizona Nos. 1, 3, 4, 6, 7, and Colorado Nos. 1, 2, 3, 4, 5, 6, 8 unpatented lode mining claims, said claims being, among others, the subject of and covered by this assignment. Said Royalty and Surface Damage Agreement dated February 7, 1955, was recorded May 23, 1955 (Entry No. 186320) in Book 9 of Mining Records, Page 501, records of Campbell County, Wyoming; and

3. Under date of August 9, 1955, a Royalty and Surface Damage Agreement was entered into by Wendell J. Schlautmann and Theresa J. Schlautmann (therein referred to as the Schlautmanns) and said Price agreed to pay said Schlautmanns a certain therein specified cash sum and a royalty of four percent (4%) on all ores mined and marketed from the Colorado Nos. 4, 5, 8, 9 and Utah Nos. 11, 12, 13 unpatented lode mining claims, said claims being, among others, the subject of and covered by this Assignment; and

4. Under date of July 30, 1956, Price, as Assignor, executed and delivered to said George H. Gaul and W. Don Quigley, as Assignees, an Assignment of Price's interest in, to and under said Lease Agreement of November 30, 1954 and the mining claims covered

thereby, subject, however, to said royalty interests hereinabove referred to in Recitals numbered 1 and 2 and subject to a reservation in favor of Price of a royalty payment of 90 cents per ton on ore shipped and sold from said mining claims and properties.

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good, sufficient and adequate consideration, in hand paid to ASSIGNORS, receipt whereof is hereby acknowledged, ASSIGNORS do hereby assign, sell, convey, transfer and set over unto ASSIGNEE an undivided one-third (1/3) interest in, to and under said Lease Agreement of November 30, 1954, insofar as said Lease covers the following described mining claims and mining properties located in Campbell County, Wyoming, to-wit:

NAME OF CLAIM	NOTICE OF LOCATION RECORDED Book	Page
Utah No. 1	4 pm	215
Utah No. 2	4 pm	216
Utah No. 3	4 pm	217
Utah No. 4	4 pm	218
Utah No. 5	7 pm	461
Utah No. 7	7 pm	462
Utah No. 8	7 pm	464
Utah No. 9	4 pm	219
Utah No. 10	4 pm	220
Utah No. 11	4 pm	221
Utah No. 12	4 pm	222
Utah No. 13	4 pm	223
Colorado No. 1	4 pm	224
Colorado No. 2	4 pm	225
Colorado No. 3	4 pm	226
Colorado No. 4	4 pm	227
Colorado No. 5	7 pm	464
Colorado No. 7	7 pm	465
Colorado No. 8	7 pm	466
Colorado No. 9	7 pm	467
Arizona No. 1	4 pm	228
Arizona No. 3	7 pm	468
Arizona No. 4	7 pm	469
Arizona No. 6	7 pm	470
Arizona No. 7	7 pm	471

TOGETHER WITH a like interest in and to all privileges, priorities, rights, preferences and obligations in, to or under said Lease Agreement or otherwise and also TOGETHER WITH a like interest, right and title in and to such mining and operating equipment and supplies as are now in use and employed in mining operations on said mining claims and properties, an inventory of such equipment and supplies having been heretofore furnished to ASSIGNEE.

ASSIGNORS do hereby covenant and warrant that they have not previously sold or encumbered said hereby assigned rights and interests by any act or instrument of ASSIGNORS.

The provisions of this Assignment shall inure to the benefit of and be binding upon the heirs, successors and assigns of the respective parties hereto.

IN WITNESS WHEREOF, these presents are executed as of theday and year first above written.

ASSIGNORS

George H. Gaul

George H. Gaul

W. Don Quigley

W. Don Quigley

ASSIGNEE

Charles W. Hendel

Charles W. Hendel

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

On this 22 day of October, 1956, personally appeared before me GEORGE H. GAUL, W. DON QUIGLEY and CHARLES W. HENDEL, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

Notary Public
Residing at

My commission expires:

ASSIGNMENT

THIS ASSIGNMENT, made this 30th day of July, 1956, by and between PRICE EXPLORATION COMPANY, a co-partnership, hereinafter referred to as "Assignor", and George H. Gaul and W. Don Quigley, hereinafter referred to as "Assignees",

W I T N E S S E T H:

WHEREAS, under date of November 30, 1954, W. Don Quigley, George H. Gaul and Robert H. Miller, as Lessors, executed and delivered a Lease Agreement to Price Exploration Company, a co-partnership composed of H. C. Price, M. L. Price, E. L. Gallery and Alton H. Roland, co-partners, as Lessees, covering the hereinafter more particularly described twenty-five (25) mining claims and mining properties situated in Campbell County, Wyoming, which Lease Agreement was subject to a reservation to said Lessors of a royalty of nine percent (9%) of the gross proceeds from the sale of any ores produced and sold from said mining claims and an additional amount equal to twenty percent (20%) of the net proceeds received from the sale of any ores produced and sold from said mining claims after "recoupment by Lessees of the cost actually expended by them prior to the placing of the property on production;" and

WHEREAS, under date of February 7, 1955, Charles Christensen and John Christensen of Gillette, Wyoming, entered into a Royalty and Surface Damage Agreement with said Price Exploration Company whereby said Price Exploration Company agreed to pay a certain therein specified cash amount for surface damages and to pay a graduated royalty ranging from three percent (3%) to a maximum of six percent (6%), which graduated royalty is computed in the manner more particularly therein specified, on ores mined and extracted from the Utah Nos. 1, 2, 3, 4, 5, 7, 8, 9, 10, Arizona Nos. 1, 3,4, 6, 7, and Colorado Nos. 1, 2, 3, 4, 5, 6, 8 unpatented lode mining claims, said of the being, among others, the subject of and covered by this assignment. Said Royalty and Surface Damage Agreement dated February 7, 1955, was recorded May 23, 1955 (Entry No. 186320) in Book 9 of Mining Records, Page 201, records of Campbell County, Wyoming; and

WHEREAS, under date of August 9, 1955, a Royalty and Surface Damage Agreement was entered into by Wendell J. Schlautmann and Theresa J. Schlautmann (Therein referred to as the Schlautmanns) and said Price

Exploration Company agreed to pay said Schlautmanns a certain therein specified cash sum and a royalty of four percent (4%) on all ore mined and marketed from the Colorado Nos. 4, 5, 8, 9 and Utah Nos. 11, 12, 13 unpatented lode mining claims, said claims being, among others, the subject of and covered by this Assignment.

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, receipt whereof is hereby acknowledged, ASSIGNOR does hereby expressly assign, grant, bargain, sell, convey, transfer and set over to ASSIGNEES all and whatsoever the rights, interests, and obligations of the ASSIGNOR under said hereinabove described Lease Agreement of November 30, 1954, covering the following described mining claims and mining properties located in Campbell County, Wyoming, to-wit:

NAME OF CLAIM	NOTICE OF LOCATION RECORDED Book	Page
Utah No. 1	4 pm	215
Utah No. 2	4 pm	216
Utah No. 3	4 pm	217
Utah No. 4	4 pm	218
Utah No. 5	7 pm	461
Utah No. 7	7 pm	462
Utah No. 8	7 pm	464
Utah No. 9	4 pm	219
Utah No. 10	4 pm	220
Utah No. 11	4 pm	221
Utah No. 12	4 pm	222
Utah No. 13	4 pm	223
Colorado No. 1	4 pm	224
Colorado No. 2	4 pm	225
Colorado No. 3	4 pm	226
Colorado No. 4	4 pm	227
Colorado No. 5	7 pm	434
Colorado No. 7	7 pm	435
Colorado No. 8	7 pm	436
Colorado No. 9	7 pm	437
Arizona No. 1	4 pm	228
Arizona No. 3	7 pm	4[illegible]
Arizona No. 4	7 pm	[illegible]
Arizona No. 6	7 pm	470
Arizona No. 7	7 pm	471

Together with any and all preferences, priorities, rights and privileges and obligations in and to said Lease Agreement or otherwise, EXPRESSLY SUBJECT, HOWEVER, to said royalty interests reserved under said hereinabove referred to Royalty and Surface Damage Agreement of February 7, 1955, and said Royalty and Surface Damage Agreement of August 9, 1955, and a royalty payment of ninety cents (.90¢) per ton or ore shipped and sold from the above claims and properties to ASSIGNOR.

Also for the above consideration the ASSIGNOR does hereby expressly assign, transfer, grant, bargain, sell, and convey all and whatsoever rights, interests, and equity in and unto such mining and operating equipment and supplies now in use or employed in the mining operations on said mining claims and properties, which equipment and supplies are more expressly described in Exhibit A attached hereto.

ASSIGNOR hereby covenants and warrants that it has not previously sold or encumbered (other than said hereinabove referred to Royalty and Surface Damage Agreements of February 7, 1955 and August 9, 1955) any rights or interests in and under the above mentioned Lease Agreement of November 30, 1954, or the hereby assigned rights and interests as to the property covered by said mining claims and mining properties.

The provisions of this Assignment shall inure to the benefit of and be binding upon the assigns and successors in interest of the respective parties hereto.

IN WITNESS WHEREOF, these presents are executed as of the day and year first above written.

ASSIGNOR

PRICE EXPLORATION COMPANY, A co-partnership, the membership of which is composed of

Harold C. Price
HAROLD C. PRICE

M. L. Price
M. L. PRICE

D

Harold C. Price Jr.
HAROLD C. PRICE JR.

Elmer L. Gallery
ELMER L. GALLERY

Alton H. Roland
ALTON H. ROLAND

Joe D. Price
JOE D. PRICE

Robert K. Shivel
ROBERT K. SHIVEL

ASSIGNEES

George H. Gaul
GEORGE H. GAUL

W. D. Quigley
W. D. QUIGLEY

ATTEST:

_____
Secretary

STATE OF Oklahoma)
)
COUNTY OF Washington)

On this 9th day of August, 1956, before me appeared

to me personally known, who, being by me duly sworn, did say that they are partners in the partnership of PRICE EXPLORATION COMPANY, and that said instrument was signed by them for and on behalf of said partnership.

Robert E. Ashton
Notary Public
Residing at:

My Commission Expires:

STATE OF UTAH)
)
COUNTY OF Salt Lake)

On this 31st day of July, 1956, before me appeared Wilson Quigley & George H. Gaul the signers of the above instrument, who duly acknowledged to me that they executed the same.

My Commission expires:

May 14, 1960

Notary Public, residing at

Murray, Utah

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

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

November 7, 1956

Mr. George Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Dear Mr. Travis:

Having received no reply to our letter of October 12, 1956, the files for the above contract have been reviewed and disclose the following:

1. Figure 3 referred to under Article 1 of the Contract indicates a mineralized area exists in the west half of Colorado 4 claim.

2. This area is given the designation "B".

3. Colorado 4 claim is listed in Annex 1 of the contract and hence all production therefrom is subject to DMEA royalty.

Mr. W. Don Quigley's letter dated October 10, 1956, (Photocopy of which was enclosed in our letter of October 12 to you) indicates production from an "F" and "B" ore bodies.

If the nomenclature used by Mr. Quigley is the same as that indicated by Figure 3 under Article 1 of the contract, then the Government is rightfully due a percentage royalty on all production from the "B" ore body as well as any other "ore body" which is located on land described in Annex 1.

To clarify our understanding regarding the matter, please advise us by return mail the claim(s) location of the "B" ore body referred to in Mr. Quigley's letter of October 10. Should it be located on land subordinated to the Government, you are referred to our letter of October 12, and requested to immediately comply with our instructions.

MHM/vj
cc: Royalty File E908
Corres. File E908
Sec. Opr. Comm. (2)
J. F. Shaw (2)
Marshall
Chron.

Yours very truly,
Original signed by
W. M. TRAVER

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

10-17-56

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

RECEIVED
OCT 15 1956

224 New Customhouse
Denver 2, Colorado

October 12, 1956

Mr. George Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Dear Mr. Travis:

Mr. W. Don Quigley's letter dated October 10, 1956 (photocopy of which is attached), informs this office that mining operations are being conducted on land described in Contract Idm-E908. The Government is rightfully due a percentage royalty on all minerals mined or produced from the land described in the Contract, from December 22, 1955 until the net amount contributed by the Government is fully repaid, or until such time as may become applicable under the provisions of Article 8(b).

Under the provisions of Article 8(c), you are to pay royalty on the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, less charges made by the buyer arising in the regular course of business and further shown as deductions on the buyers settlement sheet.

In reporting production, you are referred to Article 8(h) for instructions. This office requires that Royalty payments be supported by four copies of each settlement sheet. In addition, you are requested to instruct your purchaser to furnish us with four copies of a load detail sheet when settlement is made with one settlement sheet covering a series of individual shipments. The load detail must show the dry weights and assay of each shipment, which in turn assures the Operator and the Government of accuracy, and serves a permanent record which may be subjected to inspection in the future.

Royalty payment checks should be made payable to the Defense Minerals Explorations Administration and sent to the Executive Officer, DMEA, 224 New Customhouse, Denver 2, Colorado.

Yours very truly,

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

NHN/vj
cc: Royalty File E908
Corres. File E908 w/cy ltr
Sec. Opr. Comm. (2) w/sys Quigley"s ltr 10/10/56
J. F. Shaw (2) " " " "

Enclosure
Marshall
Chron.

W. DON QUIGLEY
CONSULTING GEOLOGIST
URANIUM - OIL - MINING WORK
615 Newhouse Bldg. - Salt Lake City, Utah
PHONE ELGIN 9-3575

DMEA
DEPARTMENT OF THE INTERIOR
OCT 12 1956
REGION III
DENVER, COLORADO

October 10, 1956

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

Re: Docket DMEA 3835
(Uranium) Contract IDna-E908

Dear Mr. Traver:

Reference is made to your letter of October 3, 1956, in which you request information regarding mining operations on the North Pumpkin Buttes property. If you will refer to the original DMEA application made by Price Exploration Company and the drilling reports in the interim, you will see that two ore bodies had already been outlined prior to the DMEA contract. These ore bodies are referred to as "F" and "B". It is these two ore bodies which are now being mined. They do not come under the subject contract. The only ore body found to date under the subject contract is the "C" ore body which has not been thoroughly outlined. Stage II of the contract calls for 13 more holes in the "C" area to establish its possibilities more thoroughly.

Sincerely,

W. Don Quigley

W. Don Quigley

WDQap

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

RECEIVED
OCT 1956

224 New Customhouse
Denver 2, Colorado

October 3, 1956

Mr. W. Don Quigley
615 Newhouse Building
Salt Lake City, Utah

Re: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Dear Mr. Quigley:

Paragraph two of your letter dated September 26, 1956 to this office states your firm "... is now operating the property and continuing mining operations." As no previous mention of mining operations has been made, please advise us of the extent of such operations and the amount of ore produced to date if from property subordinated to the Government under Contract Idm-E908.

A percentage royalty is due on all minerals mined or produced from the land described in the contract from the date of the contract, December 22, 1955. In reporting production, you should then include four copies of each settlement sheet with the appropriate amounts of royalty for production from all ore bodies which are located on Government subordinated land.

Under the provisions of Article 8(c), you are to pay royalty on the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, less charges made by the buyer arising in the regular course of business and shown as deductions on the buyer's settlement sheet.

Yours very truly,

W. M. TRAVER

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

MHM/vj
cc: Royalty File E908
Corres. File E908
Sec. Opr. Comm. (2) w/photcys Quigley's ltr 9/26/56
J. F. Shaw (2) " " " "
Marshall
Chron.

W. DON QUIGLEY
CONSULTING GEOLOGIST
URANIUM - OIL - MINING WORK
615 Newhouse Bldg. - Salt Lake City, Utah
PHONE ELGIN 9-3575

ANSWERED

September 26, 1956

DMEA
DEPARTMENT OF THE INTERIOR
SEP 27 1956
REGION III
DENVER, COLORADO

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

Re: Docket DMEA-3835
(Uranium) Contract Idm E908
Price Exploration Co.
North Pumpkin Buttes
Campbell County, Wyoming

Dear Mr. Traver:

I make reference to your letter of August 30 (a copy of which I have received) to Mr. Travis in regard to the processing of the voucher for the months of June and July for drilling done by Price Exploration Company on the above contract.

Our firm, "Gaul, Hendel & Quigley" is now operating the property and continuing mining operations. We have done considerable more drilling to outline and more fully evaluate the "F" and "B" ore bodies. We have done no more drilling on the "C" ore body, which was found by DMEA drilling by Price Exploration Company

The necessary papers for assignment of the DMEA contract from Price to us, have not been forwarded to you because of a slight legal difficulty. As soon as this is corrected and the papers are prepared, we will forward them. By taking assignment of the contract, we are assuming the responsibility to refund to the Government the amount expended on the contract from approximately 5% of the ore production from the "C" ore body. However, we do not wish to proceed with Stage II under the contract, until all the legal work has been completed.

We can see no reason why the payment and settlement with Price Exploration Company on the Stage I drilling need be made dependent on the resumption of work under Stage II. Perhaps there is some requirement of which we are not aware that has not yet been fulfilled. If there is anything that we need to do in this connection, outside of furnishing you with the above legal data which will be done as soon as possible, please let us know.

Sincerely,

W. D. Quigley

W. Don Quigley

WDQ:wa

cc. H. C. Price, Bartlesville, Oklahoma
George Travis, Grand Junction, Colorado

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

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 28, 1956

Mr. W. Don Quigley, Consulting Geologist
Price Exploration Company
615 Newhouse Building
Salt Lake City, Utah

Re: Docket DMEA 3835 (Uranium)
Contract Idm-E908
Price Exploration Company
North Pumpkin Buttes
Campbell County, Wyoming

Dear Mr. Quigley:

Reference is made to your letter of September 26, 1956 wherein you inquire about amounts totalling $486.25 which were withheld from the June and July, 1956 vouchers submitted by Price Exploration Company for work performed under Stage I of Contract Idm-E908.

It is a standard procedure of the Defense Minerals Exploration Administration to withhold a reasonable amount from reimbursement to the Operator at the completion of each stage of work when work under the next successive stage is not under way. If for any reason the next stage of work is not approved by the Government and undertaken by the Operator, the amount continues to be held pending resolution of matters relative to closing the account, which includes

1) Termination of the contract, if required.

2) Rendering by the Operator to the Government of a final engineering and geologic report according to Article 7 (c) of the contract form.

3) Release to this office of an audit or Report of Review of contract expenditures by the Contract Administration and Audit Division.

In this particular case, the amount withheld from the June and July vouchers will be reinstated when assignment of the contract has been approved by the Government and when contract work under Stage II has progressed to such extent that the Government will again be in position to withhold a similar amount upon recess or completion of the contract work.

Very truly yours,

W. M. TRAVER

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

JDC:jy
cc: Corresp. E908)
Sec.Op.Comm. (2))
Shaw (2)) w/copy Oper. letter
Harshman)
Townsend)
Chron.

COPY

RECEIVED
OCT - 1 1956

W. DON QUIGLEY
Consulting Geologist
Uranium - Oil - Mining Work
615 Newhouse Bldg. - Salt Lake City, Utah

September 26, 1956

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

Re: Docket DMEA-3835 (uranium)
Contract Idm-E908
Price Exploration Co.
North Pumpkin Buttes
Campbell County, Wyoming

Dear Mr. Traver:

I make reference to your letter of August 30 (a copy of which I have received) to Mr. Travis in regard to the processing of the voucher for the months of June and July for drilling done by Price Exploration Company on the above contract.

Our firm, "Gaul, Hendel & Quigley" is now operating the property and continuing mining operations. We have done considerable more drilling to outline and more fully evaluate the "F" and "B" ore bodies. We have done no more drilling on the "C" ore body, which was found by DMEA drilling by Price Exploration Company.

The necessary papers for assignment of the DMEA contract from Price to us, have not been forwarded to you because of a slight legal difficulty. As soon as this is corrected and the papers are prepared, we will forward them. By taking assignment of the contract, we are assuming the responsibility to refund to the Government the amount expended on the contract from approximately 5% of the ore production from the "C" ore body. However, we do not wish to proceed with Stage II under the contract, until all the legal work has been completed.

We can see no reason why the payment and settlement with Price Exploration Company on the Stage I drilling need to be made dependent on the resumption of work under Stage II. Perhaps there is some requirement of which we are not aware that has not yet been fulfilled. If there is anything that we need to do in this connection, outside of furnishing you with the above legal data which will be done as soon as possible, please let us know.

Sincerely,

/S/ W. Don Quigley

W. Don Quigley

cc. H. C. Price, Bartlesville, Oklahoma
George Travis, Grand Junction, Colorado

PRICE EXPLORATION COMPANY
HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

August 31, 1956

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

DMEA
DEPARTMENT OF THE INTERIOR
SEP 4 1956
REGION III
DENVER, COLORADO

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

Dear Mr. Traver:

In answer to your letter of August 15th, concerning the discrepancy between logs submitted and footage claimed on form MF-104A, I am herewith enclosing 5 copies of the log on Hole #B-25 which had been omitted. There is also an error in the log submitted. Hole C-17 was erroneously listed as 10 feet in the depth column, the lithological log shows 19 feet. The above 9 foot error, plus the 25 feet for hole B-25, makes up the 34 foot discrepancy.

Mr. Quigley has submitted to you under separate cover a signed narrative report. We trust this information will allow you to process the June voucher for payment.

Very truly yours,

Charles W Shannon

Charles W. Shannon

CWS:wa
Enclosure

DRILLING REPORT

DOCKET DMEA 3835 - CONTRACT Idm - E 908

NORTH PUMPKIN BUTTES

APPENDIX I

HOLE NO.	DEPTH	PROBE DEPTH	LITHOLOGY	MINERALIZATION
			Feet	
B-25	25'	23.5'	0-3 Tn. Sdy. soil	
			3-5 Yel. Tn Ark Sd.	
			5-9 Gy Tn. Sdy. Sh.	
			9-13 Buff Sh.	
			13-19 Buff & Bl. Gy & Gy. Tn Sh. with Ls. at 15'	
			19-25 Bl. Gy. with Gy. Tn Sh.	

W.C.

PAUL, HENDEL & QUIGLEY

C. W. HENDEL
GEOLOGIST

615 NEWHOUSE BUILDING SALT LAKE CITY 1, UTAH

TELEPHONE
9-3575
84-4694

August 31, 1956

RECEIVED
SEP - 7 1956

DMEA
DEPARTMENT OF THE INTERIOR
SEP 4 1956
REGION III
DENVER, COLORADO

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

Re: Docket DMEA 3835 (Uranium
Contract Idm-E908
Price Exploration Company
(North Pumpkin Buttes)
Campbell County, Wyoming

Dear Mr. Traver:

Thank you for your letter of August 22, 1956. I have also been advised by Mr. Travis, with Price Exploration, that he has received your telephone call. We have received our lease assignment and we will, in the next day or so, send you the necessary papers, as per your letter.

Very truly yours,

C. W. Hendel III

C. W. Hendel III

CWH:wa

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

RECEIVED
SEP - 4 1956

224 New Customhouse
Denver 2, Colorado

August 30, 1956

Mr. George G. Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium)
Contract Mm-E908
Price Exploration Company
North Pumpkin Buttes
Campbell County, Wyoming

Dear Mr. Travis:

Forms MF-104, Operator's Monthly Report and Voucher, for the months of June and July, 1956 are being processed for payment.

An amount of $400.00 is withheld from the June, 1956 voucher, and the entire amount of Government participation is withheld from the July, 1956 voucher pending resumption of work under Stage II of the contract and also pending receipt from you of a request for assignment of the contract and action on your request by the Washington Office, DMEA.

Very truly yours,

W. M. TRAVER

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

Copy to:
Mr. Harold C. Price
P. O. Box 1111
Bartlesville, Oklahoma
JDC:jy
cc: Corresp. E908
MF-104 File E908
Sec. Op. Comm. (2)
Shaw (2)
Townsend Chron.

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

[illegible] New Customhouse
Denver 2, Colorado CERTIFIED MAIL

August 22, 1956

Mr. C. W. Mendel
c/o Mr. Robert A. Blakemore
Savageton Route
Gillette, Wyoming

Re: Docket DMEA 3855 (Uranium)
Contract [illegible]
Price Exploration Company
(North Pumpkin Buttes)
Campbell County, Wyoming

Dear Mr. Mendel:

Reference is made to your letter of August 21, 1956, wherein you advise that there has been a change in the Operator involved with DMEA Exploration Project Contract [illegible].

You are advised hereby that the Government will not contribute to the costs of any further work performed under the contract until the assignment of the contract has been approved in Washington by the Administrator, DMEA. Therefore, any additional work performed will be at your own risk.

To obtain the approval of the Administrator, DMEA, for the assignment of the contract, it is necessary that you forward to this office the following:

1. The original and three copies, or four photostats of the original signed instrument assigning the lease agreement on the property described under Article 2 of the contract from Price Exploration Company to the new operating concern.

2. The original and five copies of a joint typewritten request signed by all persons concerned requesting the Government's

approval of the assignment of the contract from the seven partners doing business as Price Exploration Company to the new partners or operating concern.

When the above material has been received, it will be forwarded on to our Washington Office for their consideration and appropriate action and advice as to any additional legal instruments or material that may be needed in conjunction with the assignment of the contract.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, [redacted]
Field Team, Region III

cc: Mr. C. W. Hendel
615 Newhouse Building
Salt Lake City, Utah

Mr. George G. Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

JWT:prl

cc: Chairman, Op. Comm. (2)) w/copy of Hendel's letter of
Harshman) August 21.
Shaw)
Townsend)
Corres. file)
Chron.

To: US Dept. of Interior
DMEA
224 New Customhouse
Denver 2, Colorado

From:
C. W. Hendel
615 Newhouse Bldg.
S.L.C., Utah.

DMEA
Date Rec'd.
AUG 22 1956
BUREAU OF MINES
Denver, Colorado

Aug. 21 1956

Attn: Mr. Travor.

Re: Pocket DMEA 3835 Uranium
Contract Idn E908
Price Exploration Co.,
(North Pumpkin Butte)
Campbell Co., Wyo.

Dear Mr Travor:

This is to notify you that Price Exploration has assigned the lease, and DMEA loan (subject to your approval), as of August 1st. 1956, to George H. Grant & W. Don Quigley; I have purchased a 1/3 interest from the latter two, and we are the successor interest now. I have written Price to have them confirm this to you by wire, if they have not already done so.

Please advise if you need any more information to approve transfer of DMEA loan to us. Call or wire as explained. Kummerfelt will get word to me at mine. Materri will be doing the drilling, as before.

It is my understanding that you wish the Stage II drilling to proceed as soon as possible. I have ordered rig for Monday, ~~Jan~~ August 27th and drilling will commence then. I have your correspondence with Price &, Darwin Quigley, & Mr. Travis.

Please wire or call:

Mr. Lawrence Materri Materri
Upton, Wyo

or

Mr. John Kummerfelt Kummerfelt
Moorcroft, Wyo.

If you will not permit us to start drilling Monday, 27th. (We wish reimbursement or payments to go to us, of course, for work done on Stage II) (Stage I work payments will go to Price Exploration

I am staying at the mine, mail address: c/o Mr. Robert A. Blackman
Savageton Rt., Gillette, Wyo.

in emergency. Tel: c/o Wendell Slautman
Savageton (Gillette)
Wyoming.

Information you may need to approve assignment of lease:

Operator: George A. Gaul
763 De Soto Dr.
Palo Alto, Calif.

C. W. Hendel
& W. Don Quigley, 615 Newhouse Bldg.

We are geologist by profession, and are qualified to supervise drilling operations.

If you wish August monthly report, we will forward same as soon as I return to office in Salt Lake. We have done no work on Stage II as yet, of course, and the better part of the month has been spent getting files in order, and completing transfer of interest.

Very truly yours,
C. W. Hendel

cc to Mr. Shaw, attorneys: C. W. Hendel.
Letter forwarding, when ~~[illegible]~~ Section to office, etc.

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

224 New Customhouse
Denver 2, Colorado

August 16, 1956

Mr. M. Darwin Quigley, Geologist
Price Exploration Company
614 Newhouse Building
Salt Lake City, Utah

Re: Docket DMEA 3835 (Uranium
Contract Idm-E908
Price Exploration Company
North Pumpkin Butte
Campbell County, Wyoming

Dear Mr. Quigley:

Forms MF-104 and MF-104A which were submitted with your monthly report for July, 1956 are not acceptable as they do not reflect the previous costs for Drilling and Incidental Allowance.

Six copies of each form are enclosed herewith. The original and four copies of each form are to be returned to this office, properly completed and executed.

Very truly yours,

W. M. TRAVER

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

RECEIVED
AUG 20 1956

Enclosures
JDC:jy
cc: Corresp. E908
Sec. Op. Comm. (2)
Shaw (2) Cooper Chron.

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

224 New Customhouse
Denver 2, Colorado

August 15, 1956

Mr. M. Darwin Quigley, Geologist
Price Exploration Company
614 Newhouse Building
Salt Lake City, Utah

Re: Docket DMEA-3835 (Uranium)
Contract Idm-E908
Price Exploration Company
North Pumpkin Butte
Campbell County, Wyoming

Dear Mr. Quigley:

We are returning all copies of your Narrative Report for June, 1956 for signature. Upon return of the signed reports, the June, 1956 voucher will be processed for payment.

The logs submitted with the June report include only 129 holes actually drilled for a total 5462 feet, whereas 5496 feet of drilling in 130 holes was reported on Form MF-104A, Operator's Unit Cost and Progress Report. If one of the logs was omitted from the June report, please submit five copies of the log to this office when you return the signed narrative report.

Very truly yours,

W. M. TRAVER

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

JDC:jy
cc: Corresp. E908
Sec. Op. Comm. (2)
Shaw (2)
Cooper
Chron.

Enclosures
Copy to:
George G. Travis, Agent
Price Exploration Company
P. O. Box 1283
Grand Junction, Colorado

RECEIVED
AUG 2 0 1956

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

RECEIVED
JUL 27 1956

224 New Customhouse
Denver 2, Colorado

July 25, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming

Enclosed is the following material in conjunction with approval for drilling under Stage II of the contract:

1. Two copies of a request from the Operator, dated July 11, 1956.

2. Four copies of a joint memorandum, dated July 20, 1956, from E. N. Harshman, Geological Survey, and John F. Shaw, Bureau of Mines.

3. Four copies of project work approval issued by the DMEA Field Team, Region III.

4. Four copies of a letter, dated July 25, 1956, transmitting the work approval to the Operator's Agent, and wherein certain other self-explanatory advice is given.

W. M. Traver

W. M. Traver

Enclosures

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

RECEIVED
JUL 27 1956

[redacted]
[redacted]

July 25, 1956

Mr. George Travis, Agent
Price Exploration Company
P. O. Box [redacted]
Grand Junction, Colorado

Re: Budget [redacted] 5895 (Uranium)
Contract [redacted]
Price Exploration Company
(North Pumpkin Buttes)
Campbell County, Wyoming

Dear Mr. Travis:

Enclosed is the Government's approval for certain Stage II drilling to be performed under Contract [redacted].

The drilling requested by Mr. Quigley does not conform to the provisions in the contract pertaining to Stage II work; therefore a major portion of the work requested is not approved.

In the future, it may be deemed appropriate to extend favorable areas by drilling not provided in the contract. However, any decision to amend the contract to permit such drilling should await completion of all of the work that can be accomplished under the terms of the contract as now written.

A request for an amendment to the contract to permit such additional drilling not now authorized must originate with you in a similar manner as the request for the Stage II drilling.

Preparation of an amendment of the mining involved, with approval of the additional drilling, is not within the

authority delegated to this office; therefore must be forwarded to the Washington Office, DMEA, for their consideration and appropriate action.

Referring to the project work as presently outlined in Exhibit "A" attached to the contract, you should request the Government's approval for such work under Stage III as you deem warranted; then the work under Stage IV could follow as indicated.

Very truly yours,

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

Enclosure

cc: Mr. M. Darwin Quigley, Geologist
602 Newhouse Building
Salt Lake City, Utah

JWT:prl

cc: Chairman, Oper. Comm. (4)
Finance Office, Reg. III
Amendment File
Barshman
Shaw (2)
Townsend
Corres. file
Chron.

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

RECEIVED
JUL 27 1953

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

The locations of the approved holes are shown on the map, "Figure 1 - Map Showing Location of Recommended Stab II Holes - Price Exploration Company, Campbell County, Wyo., RMMA 3835, Contract IAm-3806," which is attached hereto and made a part of this work approval.

Nothing in this work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work or services, nor any item of allowable cost which is expressly designated as "Maximum."

Very truly yours,

RMMA Field Team, Region III

W. M. Tanner

W. M. Tanner

E. H. Berkman

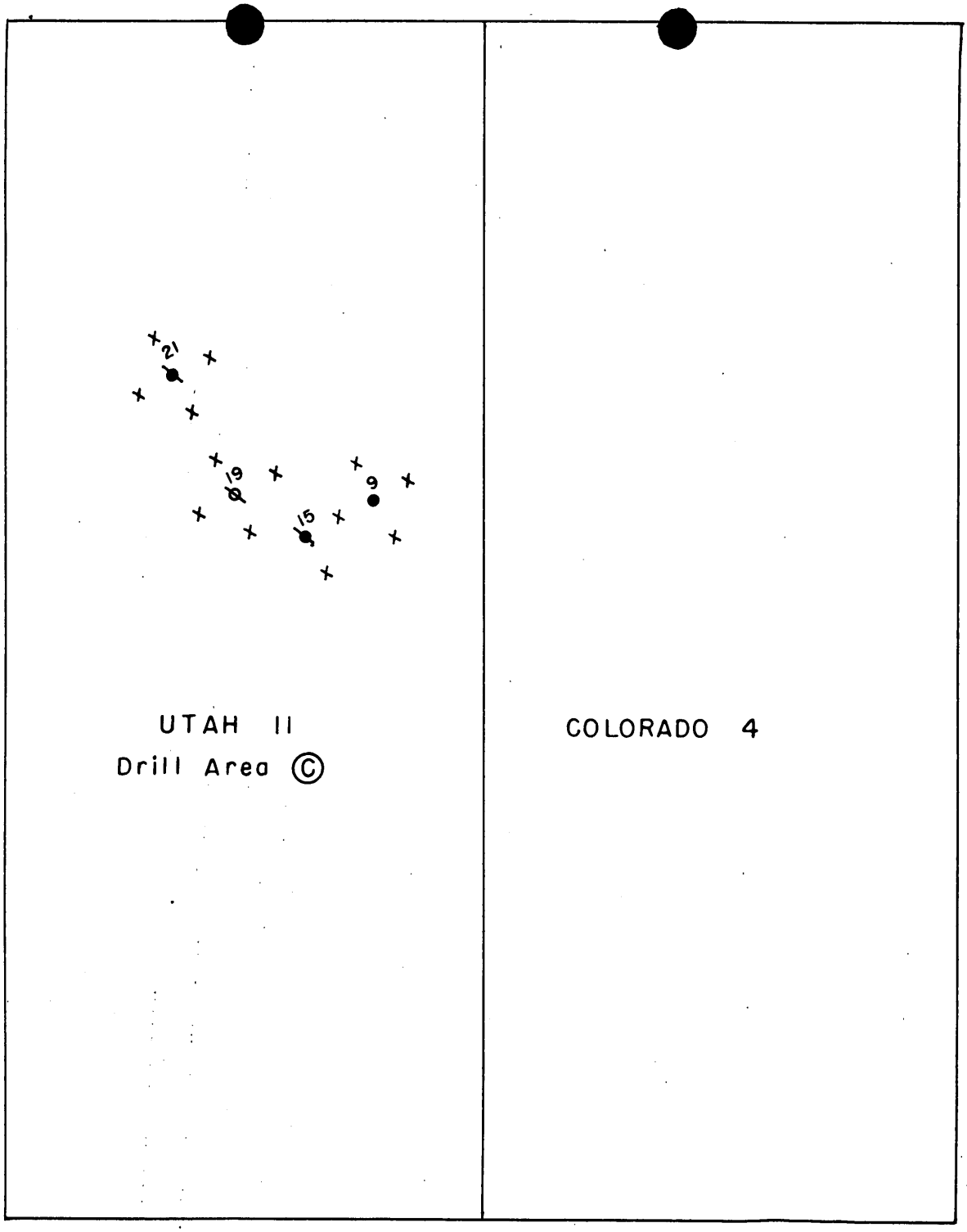
E. H. Berkman

Enclosure

cc: Mr. H. Darwin Quigley, Geologist
    600 Newhouse Building
    Salt Lake City, Utah

JMTjrl

cc: Chairman, Oper. Comm. (4)
    Finance Office, Reg. III
    Assessment File
    Berkman
    Shaw (2)
    Townsend
    Corres. File
    Chron.



LEGEND

- ● STAGE I HOLE COMPLETED-ORE BEARING
- ⊘ STAGE I HOLE COMPLETED MINERALIZED
- x STAGE II HOLE RECOMMENDED

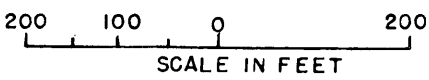


FIGURE I - MAP SHOWING LOCATION OF RECOMMENDED STAGE II HOLES — PRICE EXPLORATION COMPANY, CAMPBELL COUNTY, WYO. DMEA 3835, CONTRACT Idm-E908

DMEA
Date Rec'd.
JUL 23 1956
RECEIVED
JUL 27 1956
BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
July 20, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Marshman
John F. Shaw

Subject: DMEA Docket 3835 (Uranium), Contract Idm-5908, Price Exploration Company (North Pumpkin Buttes), Campbell County, Wyoming.

In a letter of July 11, 1956, M. D. Quigley, geologist for the applicant, requested approval of 105 holes under stage II of contract Idm-5908. The holes are to be drilled on 50-foot centers to an average depth of 40 feet. All holes are to bottom in a blue-gray shale which underlies the ore-bearing sandstone.

The purpose of the requested drilling is to "define the limits of mineralization eastward in Area C" where 4 Stage I drill holes encountered mineralized material.

The requested exploration does not conform to the contract provisions for Stage II work. Stage II, in the contract, provides for offset holes around Stage I holes that show significant mineralization. The offset holes are to be drilled on centers not less than 50 feet.

Stage I holes Nos. 15, 19, and 21 encountered mineralized material, apparently of low grade, and hole No. 9 encountered 2 feet of material that may be ore grade. Offsetting the 4 holes appears warranted and is recommended. The locations of 12 Stage II offset holes are shown on the accompanying figure I. No hole should be drilled closer than 50 feet to any previously drilled hole and no hole should be drilled deeper than 30 feet or to the blue clay whichever is the more shallow.

In the future it may be deemed appropriate to extend favorable areas by drilling not provided for in the contract. Any

decision to amend the contract to permit such drilling should however permit completion of all work which can be accomplished under the terms of the contract as now written.

for Robert U King
H. W. Burnham
Member Field Team

John F. Shaw
John F. Shaw
Supervising Mining Engineer

JFS:ah

cc: 9
DMRA 3835
Chron.

DMEA
Date Rec'd.

JUL 16 1956

BUREAU OF MINES
Denver, Colorado

July 11, 1956

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

Re: Docket DMEA 3835 (Uranium)
Contract Idm - E908
Price Exploration Company
North Pumpkin Buttes
Campbell County, Wyoming

Dear Mr. Traver:

Additional drilling is hereby requested under Stage II of Docket DMEA 3835 (Uranium) Contract Idm - E908 awarded to Price Exploration Company on their North Pumpkin Buttes property in Campbell County, Wyoming. Under stage I of the contract mineralization was found in four holes in Area C as shown on the attached map. Commercial ore grade was assayed through a 2 - foot interval (9 to 11 ft. from the surface) in hole C-9. The record of all analyses together with the probe results are listed and included as Appendix I. The probe results appear to be indicative of a fair area of mineralization, but the chemical assays suggest that it is of low grade. Naturally, there is considerable mixing involved in the drilling and sampling process so that the assays don't represent the grade of mineralization "in situ".

The probe results are of the same order of magnitude as those which were recorded, when the ore body on Colorado #1 was drilled out. This mine has been in operation for nine months and at the present rate will continue to operate for the next six years. The probe readings are likewise camparable in magnitude to those recorded during the drilling of the ore body in the B area of Colorado #4. Consequently, it seems probable on the basis of experience, that the mineralization in Area C may be as rich and as extensive as that which has been drilled out in areas F and C, and which is presently being mined in Area F on Colorado #1. The last four 50 - ton carloads from that mine have assayed 0.23%, 0.24%, 0.26%, and 0.35% respectively.

It is requested that Stage II drilling continue to define the limits of mineralization eastward from Area C. It is requested that these holes be drilled on 50-ft. centers in a hexagonal pattern after the manner suggested by the attached map. The hexagonal pattern would be expanded eastward from the four holes (C-9, C-15, C-19, and C-22)

which penetrated mineralization until its limits were defined. The depth to the blue gray shale in the holes already drilled in Area C is approximately 31 feet. It is requested that all holes in the Stage II drilling bottom at the top of the blue gray shale. The hole depth will probably be less than 40feet, but the holes on the extreme eastern margin may be as much as 50 feet deep, depending on the extention of the mineralization. It is further understood that only the number of holes and total footage be drilled that are necessary to define the limits of mineralization extending eastward from Area C, even though the number of holes and footage needed represents a small proportion of the total allowed by the Contract E - 908 under Stage II.

The record of the lithologic descriptions of the holes drilled in Area C is attached as Appendix II for your convenience.

Sincerely yours,

M. Darwin Quigley

M. Darwin Quigley
Geologist

MDQ:wa

PUMPKIN BUTTES
DMEA DRILLING

UTAH 11 - AREA C

MINERALIZATION LOG

Hole No.	From	To	Int.	Probe % U_3O_8	Ft. %	Calc. Radiom. %	Sample Geiger %	Sample Assay %
9	5.0	5.5	0.5	0.16	0.08			
	5.5	6.0	0.5	0.35	0.175			
	6.0	6.5	0.5	0.65	0.325			
	6.5	7.0	0.5	0.65	0.325			
	*5.0	7.0	2.0	----	0.905	0.4525	0.025	
	**5.0	6.0	1.0	----	-----	0.4525		0.002
	**6.0	7.0	1.0		-----	0.4525		0.003
	**7.0	8.0	1.0	0.35	0.35	0.325		0.002
	**8.0	9.0	1.0	0.30	0.30	0.325		0.02
	*7.0	9.0	2.0		0.65	0.325	0.015	
	9.0	9.5	0.5	0.60	0.30			
	9.5	10.0	0.5	1.15	0.575			
	10.0	10.5	0.5	1.50	0.750			
	10.5	11.0	0.5	0.65	0.325			
	*9.0	11.0	2.0		1.950	0.975	0.105	
	**9.0	10.0	1.0			0.975		0.31
	**10.0	11.0	1.0			0.975		0.36
	11.0	11.5	0.5	0.55	0.275			
	11.5	14.0	2.5	0.50	1.250			
	11.0	14.0	3.0		1.525	0.5083		
	*11.0	13.0	2.0			0.5083	0.015	
	**11.0	12.0	1.0			0.5083		0.01
	**12.0	13.0	1.0			0.5083		0.01
	11.5	14.0	2.5	0.50	1.250			
	14.0	14.5	0.5	0.55	0.275			
	14.5	15.0	0.5	0.30	0.150			
	11.5	15.0	3.5		1.675	0.478		
	*13.0	15.0	2.0			0.478	0.035	
	**13.0	14.0	1.0			0.478		0.03
	**14.0	15.0	1.0			0.478		0.03
	*15.0	17.0	2.0	0.20	0.40	0.20	0.010	
	**15.0	16.0	1.0			0.20		0.003
	**16.0	17.0	1.0			0.20		0.01

* Drill Sample Interval
** Assay Sample Interval

PUMPKIN BUTTES
DMEA DRILLING

UTAH 11 - AREA C

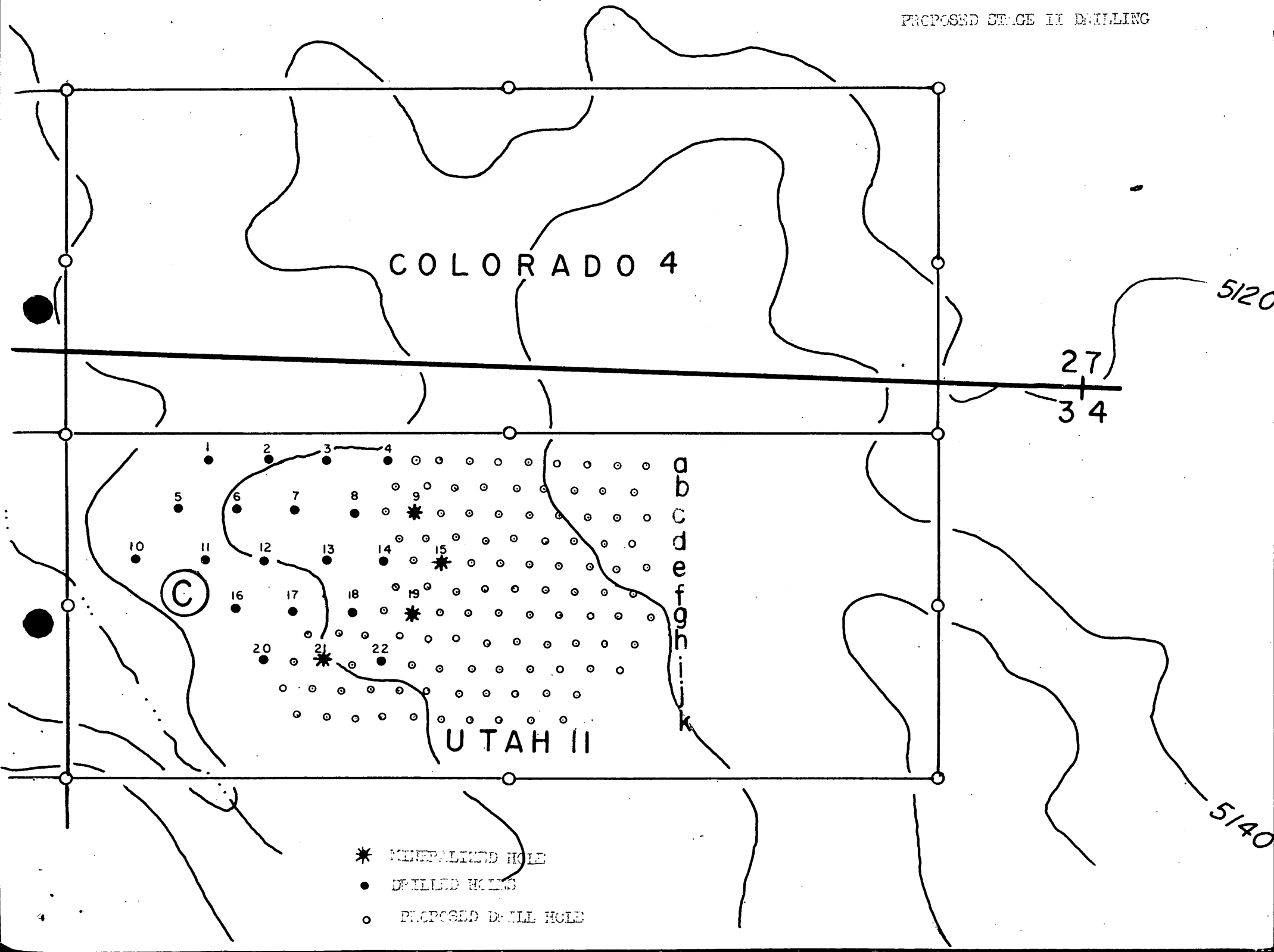
MINERALIZATION LOG

HOLE NO.	FROM	TO	INT.	PROBE %U_3O_8	FT %	CALC. RADIOM. %	SAMPLE GIEGER %	SAMPLE ASSAY %
15	*25.0	27.0	2.0	0.20	0.40	0.20	0.015	
	**25.0	26.0	1.0			0.20		0.002
	**26.0	27.0	1.0			0.20		0.003
19	19.0	19.5	0.5	0.05	0.025			
	19.5	20.0	0.5	0.08	0.040			
	20.0	20.5	0.5	0.10	0.050			
	20.5	21.0	0.5	0.20	0.100			
	*19.0	21.0	2.0		0.215	0.1075	0.005	
	**20.0	21.0	1.0			0.1075		0.002
	21.0	21.5	0.5	0.30	0.15			
	21.5	22.5	1.0	0.40	0.40			
	22.5	23.0	0.5	0.30	0.15			
	*21.0	23.0	2.0		0.70	0.35	0.020	
	**21.0	22.0	1.0			0.35		0.003
	**22.0	23.0	1.0			0.35		0.003
	*23.0	25.0	2.0	0.25	0.50	0.25	0.010	
	**23.0	24.0	1.0			0.25		0.01
	**24.0	25.0	1.0			0.25		0.04
	**25.0	26.0	1.0	0.25	0.25	0.165		0.002
	26.0	27.0	1.0	0.08	0.08			
	*25.0	27.0	2.0		0.33	0.165	0.005	
21	7.0	7.5	0.5	0.12	0.060			
	7.5	8.0	0.5	0.07	0.035			
	8.0	8.5	0.5	0.10	0.050			
	8.5	9.0	0.5	0.22	0.110			
	*7.0	9.0	2.0		0.255	0.1275	0.015	
	**7.0	8.0	1.0			0.1275		
	**8.0	9.0	1.0			0.1275		0.04
	9.0	9.5	0.5	0.40	0.200			
	9.5	10.0	0.5	0.35	0.175			
	10.0	10.5	0.5	0.20	0.100			
	10.5	11.0	0.5	0.12	0.060			
	*9.0	11.0	2.0		0.535	0.2675	0.045	
	**9.0	10.0	1.0			0.2675		0.10
	**10.0	11.0	1.0			0.2675		0.10

* Drill Sample Interval
** Assay Sample Interval

PRICE EXPLORATION COMPANY NORTH PUMPKIN BUTTES

PROPOSED STAGE II DRILLING



APPENDIX II

HOLE NO.	DEPTH	PROBE DEPTH	LITHOLOGY Feet		MINERALIZATION Feet	Feet	Feet
A-22	55'	52.1'	0-2	Sdy. soil			
			2-13	Lt. Gy. Tn. F. G. Ss.	No Count		
			13-35	Yel. to Yel. Brn. Ark. Ss.			
			35-38	Gy. Sdy. Ls.			
			38-52	Yel. Brn. M. G. Ss.			
			52-55	Bl. Gy. Sh.			
A-23	45'	45.1'	0-2	Sdy. soil			
			2-5	Lt. Gy. Ss. w/intb. Gy. Sh.			
			5-17	Tn. F. G. Ss.			
			17-20	Yel. Ark. Ss.	No Count		
			20-22	Gy. Sdy. Ls.			
			22-32	Yel. Ark. Ss.			
			32-34	Gy. Sdy. Ls.			
			34-36	Yel. Ark. Ss.			
			36-38	Gy. Sh.			
			38-41	Tn. M. F. G. Ss.			
			41-45	Bl. Gy. Sh.			
A-24	39'	38.4	0-3	Sdy. soil	No Count		
			3-15	Lt. Tn. F. G. Ss.			
			15-36	Yel. Tan. Ark. Ss.			
			36-39	Gy. Tn. Sh.			
A-25	33'	32.1'	0-3	Sdy. soil			
			3-25	Lt. Tn. to Brn. Tn. Ss.			
			25-27	Yel. Ark. Ss.	No Count		
			27-29	Tn. Ss.			
			29-33	Gy. Sh.			
C-1	17'	16.3'	0-1	Sdy. soil			
			1-8	Pnk. Ark. Ss.	No Count		
			8-17	Gy. Grn. Sh.			
C-2	21'	21'	0-18	Pk. M. F. G. Ark. Ss.	No Count		
			18-21	Gy. Tn. Sh.			
C-3	25'	25'	0-1	Rd. Brn. Sdy. soil	No Count		
			1-21	Pnk. M/ F. G. Ss.			
C-4	39'	39'	0-7	Rd. Brn. Sdy. soil			
			7-12	Pnk ark. Ss.	No Count		
			12-19	Gy. Tn. Sdy. Sh.			

HOLE NO.	DEPTH	PROBE DEPTH	LITHOLOGY Feet		MINERALIZATION Feet	Feet	Per Cent
C-4 Cont.			19-21	Tn. Ss.	No Count		
			21-34	Gy. to Tn. Sdy. Sh.			
			34-36	Tn. Ss.			
			38-39	Bl. Gy. Sh.			
C-5	11'	11'	0-3	Gy. Tn. F. G. Ss.	No Count		
			3-11	Gy. Grn. to Tn. Sdy. Sh.			
C-6	11'	11'	0-1	Sdy. soil			
	Mineralization		1-8	Rd. Brn. M. F. G. Ss.	No Count		
	Next to surface		8-11	Bl. Gy. Sh.			
C-7	15'	14'	0-3	Pnk. Tn. M. G. Ark. Ss.			
No count in cuttings			3-5	Rd. Brn. Ark. Ss.			
			5-9	Gy to Bl. Gy. Sh.	4.5	6.0	0.03
Located on surface mineralization			9-15	Gy. Tn. Silty Sh.			
C-8	23'	21.5'	0-18	Pnk. F. to V. F. G. Ark. Ss.			
			18-21	Grn. Tn. Sh.	No Count		
			21-23	Bl. Gy. Sh.			
C-9	25'	25'	0-3	Rd. Brn Sdy. soil	2.5	3.5	0.03
			3-8	Yel. Tn. F. G. Ss.	3.5	4.0	0.08
			8-10	Pnk. F. G. Ss.	4.0	4.5	0.07
	Carnotite ---------		10-12	Yel. M. F. G. Ss.	4.5	5.0	0.10
			12-14	Rd. M. F. G. Ss.	5.0	5.5	0.16
			14-22	Tn. M. G. Ss.	5.5	6.0	0.35
			22-25	Bl. Gy. Sh.	6.0	6.5	0.65
					6.5	7.0	0.65
					7.0	8.0	0.35
					8.0	9.0	0.30
					9.0	9.5	0.60
					9.5	10	1.15
					10.0	10.5	1.50
					10.5	11.0	0.65
					11.0	11.5	0.55
					11.5	14.0	0.50
					14.0	14.5	0.55
					14.5	15.0	0.30
					15.0	17.0	0.20
					17.0	18.0	0.15
					18.0	20.0	0.10
					20.0	25.0	0.06

HOLE NO.	DEPTH	PROBE DEPTH	LITHOLOGY Feet		MINERALIZATION Feet	Feet	Per Cent
C-10	11'	10'	0-2	Sdy. soil			
			2p11	Grn. Gy. clay			
C-15	31'	30.5'	0-7	Pnk. F. G. Ss.	21.5	23.0	0.02
			7-23	Gy. Tn. M. F. G. Ss.	23.0	24.0	0.05
			23-28	Yel. Tn. F. G. Ss.	24.0	24.5	0.20
			28-31	Bl. Gy. Sh.	24.5	25.0	0.12
					25.0	27.0	0.20
					27.0	27.5	0.08
					27.5	30.5	0.04
C-16	19'	18.2'	0-5	Rd. Brn. to Pnk F. G. Ss.			
			5-13	Gy. Tn. Sdy. Sh.	No Count		
			13-15	Lt. Gy. Sdy. Ls.			
			15-19	Lt. Gy. Tn. Sdy. Sh.			
C-17	10'	18.8'	0-3	Brn. Sdy. soil			
			3-5	Pnk F. G. Ss.			
			5-11	Rd. Pnk Crs. Ark. Ss.	No Count		
			11-14	Gy. Grn. Sh.			
			14-16	Rd. Brn. M. G. Ss.			
			16-19	Bl. Gy. Sh.			
C-18	25'	24.8'	0-3	Brn. Sdy. soil			
			3-14	Pnk. M. G. Ss.	22.7	23.2	0.03
			14-16	Lt. Gy. Sdy. Ls.			
			16-18	Pink M. G. Ss.			
			18-23	Tn. to Brn. M. G. Ss.			
			23-25	Bl. Gy. Sh.			
C-19	31'	29.8'	0-5	Pnk Brn. F. G. Ss.	19.0	19.5	0.05
			5-7	Tn. F. G. Ss.	19.5	20.0	0.08
			7-21	Pnk. M. F. G. Ss.	20.0	20.5	0.10
			21-28	Tn. to Yel. Tn. M. F. G. Ss.	20.5	21.0	0.20
			28-31	Bl. Gy. Sh.	21.0	21.5	0.30
					21.5	22.5	0.40
					22.5	23.0	0.30
					23.0	25.0	0.25
					25.0	26.0	0.20
					26.0	27.0	0.08
					27.0	29.8	0.00
C-20	11'	10.7'	0-8	Pnk F. G. Ss.			
			8-11	Gy. Grn. Clay	No Count		

HOLE NO.	DEPTH	PROBE DEPTH	LITHOLOGY FEET	LITHOLOGY	MINERALIZATION FEET	MINERALIZATION FEET	MINERALIZATION Per Cent
C-21	31'	26.7'	0-5	Pnk. F. G. Ss.	7.0	7.5	0.12
			5-13	Intb. Pnk. Ss. & Lt. Gy. Ls.	7.5	8.0	0.07
			13-15	Yel. Tn. Crs. Ark. Ss.	8.0	8.5	0.10
			15-28	Rd. Brn. M. G. Ss.	8.5	9.0	0.22
			28-31	Bl. Gy. Sh.	9.0	9.5	0.40
					9.5	10.0	0.35
					10.0	10.5	0.20
					10.5	11.0	0.12
					11.0	11.5	0.08
					11.5	12.0	0.02
					12.0	26.7	0.00
C-22	29'	27'	0-7	Tn. F. G. Ss.			
			7-13	Pnk. M. G. Ss.			
			13-16	Yel. Pnk. M. G. Ss.	No Count		
			16-25	Pnk. M. G. Ss.			
			25-26	Brn. M. G. Ss.			
			26-29	Bl. Gy. Sh.			
E-5	55'	53/3'	0-5	Tn. M. F. G. Ark. Ss.			
			5-9	Pinkish Rn. M. F. G. Ss.			
			9-17	Redish Pnk M. G. Ss.	No Count		
			17-33	Orange Brn. Crs. G. Ark. Ss.			
			33-52	Rd. Brn. M. G. Ark. Ss.			
			52-53	Coal			
			53-55	Gy. Sh.			
E-6	11'	11'	0-2	Brn. Sdy. soul			
			2-6	Tn. F. G. Ss.			
			6-9	Tn to Grn. Sh.	No Count		
			9-11	Grn. & Rd. Sh.			
E-7	19'	17'	0-10	Rd. Brn. M. G. Ss.			
			10-13	Grn. to Yel. clay			
			13-15	Rd. Brn. Sdy. clay	No Count		
			15-18	Grn. & Rd. Sh.			
			18-19	Bl. Gy. Sh.			
E-8	19'	18.7	0-1	Tan Ss.	No Count		
			1-4	Pnk. limy Ss.			
			4-17	Rd. Brn. M. G. Ss.			
			17-19	Gy. grn. Sh.			

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

July 3, 1956

Memorandum

To: Hazel Berry, Operating Committee

From: Grace L. Ault, Rare and Miscellaneous Metals Division

Subject: Amendment to contract

Mr. Ching has reviewed and approved Amendment No. 1, dated June 25, 1956, to Contract No. Idm-E908, Docket No. DMEA-3835, Price Exploration Company.

He has indicated that a review by the Legal Division is not necessary.

/s/ Grace L. Ault

Grace L. Ault

RECEIVED
JUL 2 - 1956

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

224 New Customhouse
Denver 2, Colorado

June 29, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes Property), Campbell County, Wyoming.

Enclosed are the original and two copies of Amendment No. 1 to Contract Idm-E908, which has been executed under authority delegated to this office, to modify the description pertaining to the depth of drilling.

Also enclosed are four sets of data relative to the Amendment.

Copies of the Amendment have been distributed to the Operator, the Finance Office, Region III, and other offices concerned.

W. M. Traver

W. M. Traver

Enclosures

DMEA
Date Rec'd.

JUN 22 1956

RECEIVED
JUL 2 - 1956

REGION III

BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center
Denver 2, Colorado
June 22, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea
Supervising Mining Engineer

J. F. S. by J. D. G.

From: Chas. E. Garrett, Jr.

Subject: Docket DMEA 3835 (Uranium) Contract I4n-3908, Price Exploration Company (North Pumpkin Buttes property) Campbell County, Wyoming -- Progress report for May 1956

Progress at the North Pumpkin Buttes property, Price Exploration Company, Contract I4n-3908 was checked on June 13, 1956. The DMEA engineer was accompanied by C. W. Shannon, company geologist, to the west portion of the property, where drilling was in progress. Mr. Shannon stated that work under the contract had commenced on May 31 and that the company would not submit a report for May 1956 and that this work would be included in the June report. The exploration work was progressing in good workman-like manner and in accordance with terms of the contract. All data required was being collected and properly recorded.

Areas W and U had been drilled and no significant radioactivity had been detected in the holes.

No unusual conditions have been encountered and dry drilling has been possible in all holes drilled. Due to low radioactivity in the drill holes, no samples have been collected.

Mr. Shannon stated that a request for an amendment was being submitted to the DMEA for approval to drill the hole to the blue gray shale, which has been encountered at depths up to 66 feet. Information from previous exploration work has indicated that the mineralized zone would appear to be associated with the sands in contact with the carbonaceous shale.

As pointed out by company correspondence, the increased exploration depth is not expected to increase the total footage of 5,800 feet which is allowed by the contract for Stage I. DMEA engineers concur with this expectation, as the mineralized zone will generally occur within 40 feet or less from the surface.

It is recommended that the contract be amended to permit the company to drill to the first carbonaceous shale (blue gray clay) underlying sands encountered in the upper portions of any hole. This will more thoroughly explore the zone at or near the contact with carbonaceous shale. The depths of each hole being subject to the approval of a DMEA engineer.

Charles R. Garrett Jr.
Charles R. Garrett, Jr.
Mining Engineer

I concur with these recommendations.

E. M. Harshman
E. M. Harshman
Member Field Team

CRG/mr
cc: 6
Idm-2908
Chron

PRICE EXPLORATION CO PANY
MARRIOTT [illegible] MANAGING [illegible]
BOX 1[illegible]
BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
618 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARW[illegible] ALLEY & CHAS. SHANNON
GEOLOGISTS
[illegible] NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

June 6, 1956

RECEIVED
JUL 2 - 1956

Mr. J. W. Townsend
Acting Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA-3835 (Uranium)
Contract Idm-E908
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Townsend:

In the initial phase of the drilling on the above contract we find that in areas R and Q the depths to the blue gray shale are greater than 40 feet in some instances where the holes are located near the top of the ridge. Sand is encountered at the surface and continues unbroken down to a black carbonaceous coaly shale interval of one to two feet immediately overlying the blue grey shale. It appears that it would be impractical to bottom the holes in the sand above this carbonaceous shale, because if any mineralization is present in the area it appears that it will be associated with the sand in contact with the carbonaceous shale. So far all the holes have been drilled to the blue grey shale even though the depths are exceeding 40 feet. The deepest hole drilled to date has been to a depth of 68 feet, with the shale being encountered at 66 feet. It is expected that this increase in exploration depth will not increase the total footage of 5,800 feet allowed in stage one of the exploration project. Most of the holes will be under 40', but occasionally topography is such that to bottom a hole in the blue grey shale, it will require a depth greater than 40 feet. We trust that our exploration procedure meets with your approval.

Sincerely yours,

H. Darwin Quigley

HDQ:vm
cc. Mr. John F. Shea
Room 197 Building 20
Denver Federal Center
Denver, Colorado

PRICE EXPLORATION COMPANY

HAROLD C. PRICE—MANAGING PARTNER

BOX 1111

BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHARLES SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

DMEA
Date Rec'd
JUN 6 1956
BUREAU OF MINES
Denver, Colorado

June 4, 1956

Mr. J. W. Townsend
Acting Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA-3835 (Uranium)
Contract Idm-E908
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Townsend:

In reference to the above contract, we wish to inform you that drilling actually commenced on the 31st of May 1956.

Very truly yours,

Charles W Shannon

Charles W. Shannon

CWS:wa

SENT

C.C. 6/7/56
Sec Ope Comm (2)
Shaw (2)
Harshman.

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

RECEIVED
APR 11 1956

224 New Customhouse
Denver 2, Colorado

April 6, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company (North Pumpkin Buttes property), Campbell County, Wyoming

Enclosed are the original and two copies of Power of Attorney, executed by the seven partners doing business as Price Exploration Company, designating George G. Travis, whose address is P. O. Box 1283, Grand Junction, Colorado, as Agent of the partnership, to conduct all matters connected with the DMEA Contract, Idm-E908.

Copies of the Power of Attorney have been distributed to the Finance Office, Region III, and other offices concerned.

W. M. Traver

W. M. Traver

Enclosures

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

RECEIVED
FEB 20 1956

224 New Customhouse
Denver 2, Colorado

February 16, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium) Contract Idm-E908, Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Enclosed are the Governments, Division, and Docket copies of Contract Idm-E908 which was forwarded by your letter of December 22, 1955 for signature by the applicants.

The starting and completion dates were inserted by the applicants at the time of their signing of the contract even though we had instructed them to advise us of the dates for our insertion under Article 3 of the contract form. Also enclosed are two copies of the Operator's letter of February 13, 1956 by which the executed copies of the contract were returned to this office. In addition, we are enclosing two copies of a letter from this office dated February 15, 1956 by which we forwarded the Operator's copy of the contract and forms and instructions relative to reporting on the work performed under the contract.

W. M. Traver

W. M. Traver

Enclosures

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

RECEIVED
FEB 20 1956

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

February 15, 1956

Mr. Harold C. Price
Price Exploration Company
Box 1111
Bartlesville, Oklahoma

Re: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Dear Mr. Price:

Enclosed herewith is your copy of Exploration Project Contract No. Idm-E908, Docket DMEA-3835.

Also enclosed are six copies of Form MF-104, "Operator's Monthly Report and Voucher," and six copies of Form MF-104A, "Operator's Unit Cost and Progress Report." At the completion of the first calendar month of operation and monthly thereafter you are required to submit five copies of the forms to Mr. John F. Shaw, U. S. Bureau of Mines, Room 137, Building 20, Denver Federal Center, Denver, Colorado. The sixth form is for your records.

Please note that the monthly accounting report requires a narrative report which should be accompanied by maps or sketches showing the work performed. The narrative report must be signed by the Operator. The monthly report will not be processed for payment unless accompanied by a narrative report. Additional copies of Forms MF-104 and MF-104A will be forwarded to you each month on receipt of your completed report for the prior month.

For your information and in reply to many questions that have been asked, after Forms MF-104 and MF-104A are received an engineer will check progress and approve your accounts, after which they will be sent to the Regional Office, Region III, U. S. Bureau of Mines, 224 New

Customhouse, Denver 2, Colorado, for auditing and vouchering. If the report is in order, a check will be issued by the Treasury Department for the Government's portion of the costs. If you have any difficulty in completing these forms and the reports, please call Mr. Shaw or this office for assistance.

In the matter of your claim for reimbursement of drilling costs, reimbursement to you under the terms of the contract will be on the basis of a hole or holes completed to the objective which have been logged geologically and probed radiometrically and records of such included with your report and claim for reimbursement. Therefore, your monthly report should include only such holes that are completed to that extent.

The contract is prepared on Form MF-200 and under the provisions of Exhibit "A", which is a part of the contract, the allowable costs are a combination of actual incurred costs, with an allowable maximum unit cost established for the work under Category (1) on all stages; and fixed unit costs for performing the remaining items of work or service. Under the provisions of the contract the work under Category (1) is to be performed by subcontract. Your claim for reimbursement for such work must be supported each month by a copy of the billing from the Independent Contractor, or submit for our records a copy of the Subcontract Agreement.

Your requests to this office for work approval, changes in the contract, or any other communication pertaining to operations under the contract, must be in writing, of which please supply the original and five copies, each copy complete with maps or other pertinent data.

Your attention is directed to the provision that the work under Stage II and subsequent stages is contingent on the results of the work completed under the prior stage and that performance of the work is subject to the prior written approval of the Government.

When the work under a stage is completed, you should request approval from this office for the work you propose to perform under the next stage. Your request for the work approval must be in sextuplicate, each copy complete with a map showing the location of holes previously drilled and the location of the holes you propose to drill under the next stage. Your request should be complete with drill logs, results of radiometric probing, chemical analysis returns, and any other pertinent data which will be of value to the Government in evaluating the work performed under the prior stage.

You should anticipate a suspension of operation between stages of work to enable the Government geologist and engineer to evaluate the results of the work performed and make their recommendations to this office relative to the additional work you propose.

To eliminate as much delay to operations as possible, if that is of serious consideration, you should expedite forwarding of the results of the work completed and your request for the Government's approval of the additional work you propose.

No oral statement of any person shall be construed to modify or change the terms of the contract. Field representatives of the Government are not authorized to approve any changes in the work program or contract provisions. Such approval can only be given by the Washington office, DMEA, or by the DMEA Field Team, Region III.

It is a regulation that reimbursement for the cost of work accomplished prior to the date of the contract will not be allowed. It is a requirement and imperative that you notify this office in writing the date work actually commences under the contract, with a copy of your letter to Mr. Shaw.

Very truly yours,

W. M. TRAVER

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

Enclosures
JWT:jy
cc: Chairman, Oper. Comm. (2)
Amend. File E908
Harshman
Shaw
Townsend
Corresp. File E908
Chron.

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

RECEIVED
FEB 20 1956

224 New Customhouse
Denver 2, Colorado

February 15, 1956

Mr. Harold C. Price
Price Exploration Company
Box 1111
Bartlesville, Oklahoma

Re: Docket DMEA 3835 (Uranium), Contract Idm-E908, Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Dear Mr. Price:

The way the contract is drawn in favor of the seven partners doing business as Price Exploration Company it would greatly simplify administration of the contract if one partner be designated by Power of Attorney to conduct all affairs pertaining to the DMEA contract such as signing reports, requesting changes in the contract or work approval, and execution of any amendments to the contract that may be found to be necessary as the work progresses.

It is noted on your letterhead that you are managing partner. If you have been so designated by the other partners, please supply this office with six photostats of the Power of Attorney so designating you as the managing partner. In the event a Power of Attorney is not now in existence, we are enclosing for your information a rough draft of Power of Attorney which is acceptable to this office in conjunction with the administration of DMEA contracts.

JWT:jy
cc: Chair. Opr. Comm. (2)
Amend. File E908
Harshman
Shaw
Townsend
Corresp. File E908
Chron.

Enclosures

Very truly yours,

W. M. TRAVER

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

(SAMPLE)

POWER OF ATTORNEY

We, the undersigned, members of a partnership doing business as Price Exploration Company, 615 North First Street, Grand Junction, Colorado, do hereby appoint _____ to act as the agent of said partnership in all matters connected with the United States Department of the Interior, Defense Minerals Exploration Administration, DMEA Docket 3835, Contract Idm-E908, and in behalf of said partnership to submit to the Government all necessary reports and information required under said contract, and said agent is authorized to receive individually, and to receipt for, any monies that are now or may hereafter become due to said partnership by reason of said Contract Idm-E908.

Date _____

Signed _____ Signed _____

Signed _____ Signed _____

Signed _____ Signed _____

Note: If a new Power of Attorney is executed by the partners in favor of one, please furnish this office with the original and five copies of the instrument.

PRICE EXPLORATION COMPANY

HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

COOL TRAVIS—MANAGER
POST OFFICE BOX 1289
615 N. 1ST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
603 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

Feb.13,1956.

DMEA
Date Rec'd.
FEB 14 1956
BUREAU OF MINES
Denver, Colorado

Mr. W.M.Traver, Executive Officer,
DMEA Field Team, Region 111,
224 New Customhouse,
Denver 2, Colorado.

Dear Mr. Traver:

Enclosed herewith are five executed copies of Exploration Project Contract, covering Docket No. DMEA-3835.

The delay in returning these contracts to you was occasioned by signature requirement of one partner, who was overseas.

If required, we could commence operations by May 1,1956, however, we would prefer the option of commencing on or before June 1,1956, so as to take advantage of mud and weather conditions.

Yours very truly,

Price Exploration Co.
by [signature]

615 N. 1st St.,
Grand Junction,
Colo.

2-1-56 DMEA
Date Rec'd

JAN 30 1956

BUREAU OF MINES
Denver, Colorado

PRICE EXPLORATION COMPANY

HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
610 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

T H
C
B
C

Jan. 28, 1956.

RECEIVED
FEB - 1 1956

Re: Docket DMEA 3835.
Project Contract Idm-E908.

Mr. W.M.Traver,
224 New Customhouse,
Denver 2, Colo.

Dear Mr. Traver:

In re your letter of Jan.24,1956, concerning DMEA project No.3835, said contracts are being circulated for signatures of the partners and the return of same to this office, is not expected until around Feb.1st. At that time the executed contracts will be forwarded to you.

Because of weather, we do not plan to commence work on the project until May 1956, if that meets with your approval. Commencement and completion dates will be inserted in contracts.

Yours very truly,

Price Exploration Co.,

George Travis

Box 1283,
Grand Junction, Colo.

cc: Chairman, Oper. Comm. (2)

1-26-56

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

RECEIVED
JAN 26 1956

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

January 24, 1956

Price Exploration Company
615 North First Street
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium)
Price Exploration Company
Proposed Exploration
Project Contract Idm-E908

Gentlemen:

Under date of December 30, 1955, we sent you by certified mail for your signature the Government's, Division, Docket, Finance Office, and Field Team copies of proposed Exploration Project Contract Idm-E908, and instructed you that upon return of the executed copies of the Contract you were to advise us the date on or before which you would be able to commence work and the date on or before which you contemplate that the work can be completed, for insertion under Article 3 of the Contract form.

As considerable time has elapsed and we have neither received the executed copies of the contract or advice from you in the matter, we will appreciate your prompt attention, either return of the executed copies of the contract or advice as to your plans regarding the Contract.

Very truly yours,

W. M. TRAVER

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

JWT:prl
cc: Chairman, Oper. Comm. (2)
Harshman
Shaw
Townsend
Docket file
Chron.

Surname copy

700

Ching
Ellis
Fisher
Selfridge
Johnson

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

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

DEC 22 1955

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Harshman:

Enclosed are the original and five copies of a long-form contract between the Government and Price Exploration Company, signed by the Administrator. Also enclosed are two extra copies of Exhibit "A", Annex I, and maps (Figures 2, 3, 4, 5, and 6).

If you find the contract in order, it is ready for forwarding to the Applicant for signature, subject to the insertion of suitable final starting and completion dates under Article 3.

It has been our practice to insert the completion date under Article 3, but, because of winter weather conditions, we are leaving the determination of that date, as well as of the final starting date, to the Field Team. A working period of four months is suggested.

Estimated costs as detailed in the Report of Examination were used in the contract, except that the independent contract price for non-core drilling was increased from $0.70 to $0.75 per foot in accordance with three contractors' bids submitted by the Applicant on September 15, 1955. No provision was made for lime analyses, as lime content is only of immediate interest to the Operator and it is believed unnecessary to analyze all samples for it.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (S/S)

Enclosures

MChing/gla 12-20-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Code 700
Mr. Ching

APPROVED:

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

Thor H. Kiilsgaard (S/S)
Member, Geological Survey

R.W.G.

Surname copy

Ching

Ellis

700

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

December 7, 1955

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-335 (Uranium)
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Will you kindly prepare a long-form contract between the Government and the subject Operator in accordance with the attached draft.

Executed copies of a Consent to Lien and a Subordination Agreement are attached.

The five maps which are to be attached to the contract are also attached.

Both the final starting date and the completion date are to be left blank for the Field Team to fill out because of the uncertain effect of winter weather on operations.

/s/ Michael Ching

Michael Ching

MChing/gla
cc to: Docket
Code 700
Mr. Ching

MF-200
(Revised June 1954)

Docket No. DMEA -3835

Commodity Uranium

Contract No. Idm-E

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

EXPLORATION PROJECT CONTRACT[1]

It is agreed this ..... day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Price Exploration Company, a Partnership, whose mailing address is 615 North First 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 5 maps (Figures 2, 3, 4, 5, and 6)

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 Wyoming, County of Campbell, 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 Agreement, [7] recorded in Book MR-8, page 429, 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: Royalty rights of Charles Christensen and John Christensen

(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, optionor, etc.), are attached, as follows: Subordination Agreement of Charles Christensen and John F. Christensen
Consent to Lien of W. Don Quigley, George H. Gaul and Robert H. Miller

(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 ..... shall commence the work, and on or before ..... (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 $ 24,852.00
The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $ 18,639.00 : *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

(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

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.)

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 .....

.....
(Operator)

By .....

.....

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... 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.

.....

[CORPORATE SEAL]

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

DRAFT
12/5/55
MChing/iam

ANNEX I

The land referred to in Article 2 of the contract consists of 25 unpatented lode mining claims situated in Section 35, T. 45 N., R. 76 W., and Sections 27, 28, 29, 33, and 34, T. 45 N., R. 75 W., 6th P.M., Campbell County, Wyoming. The claims are shown on the attached maps (Figures 2, 3, 4, 5, & 6) and are recorded in the Office of the County Recorder as follows:

Claim	Book	Page
Arizona No. 1	4	215
" " 3	7	468
" " 4	7	469
" " 6	7	470
" " 7	7	471
Colorado No. 1	4	224
" " 2	4	225
" " 3	4	226
" " 4	4	227
" " 5	7	464
" " 7	7	465
" " 8	7	466
" " 9	7	467
Utah No. 1	4	215
" " 2	4	216
" " 3	4	217

(Contd.)

Claim	Book	Page
Utah No. 4	4	218
" " 5	7	461
" " 7	7	462
" " 8	7	463
" " 9	4	219
" " 10	4	220
" " 11	4	221
" " 12	4	222
" " 13	4	223

EXHIBIT "A"

Description of the Work

The work consists of exploration by rotary non-core drilling to test a favorable stratigraphic interval of the Wasatch formation of Eocene age. The location of the work is indicated on the maps labeled Figures 2, 3, 4, 5, and 6, attached hereto and made a part hereof.

All holes shall be drilled to a depth of 40 feet. Diameter of bit shall be such as to permit easy probing of the holes. Drill cuttings shall be collected with a Duclone sample collector. Samples shall be taken at 2½-foot intervals except in mineralized zones where the interval shall be reduced to 1 foot. Samples shall be checked radiometrically for uranium and those indicating significant mineralization shall be analyzed chemically for uranium and vanadium.

All drill holes shall be logged geologically and probed radiometrically, and the record of such logging and probing, together with certified copies of all assay certificates, shall be submitted with the Operator's monthly progress reports.

The project shall be supervised by a competent engineer-geologist who shall devote full time to the project work.

The work shall be divided into four successive stages. The Operator shall complete Stage I and perform as much of Stages II, III, and IV as the Government considers justified by the results of the preceding work and which the Government approves in writing.

of actual costs in Article 6 of the contract form are allowable costs under this contract.

1,000 chemical sample analyses @ $5.00/sample	$5,000.00	
*Incidental allowance for each foot of drilling completed - 20,160 ft. @ $0.21	4,233.60	
Estimated total fixed unit costs		$9,233.60

Summary

Estimated total actual costs	$15,620.00
Estimated total fixed unit costs	9,233.60
Estimated total cost of the project - rounded to	$24,852.00
Government participation @ 75%	$18,639.00

* Includes all costs of the project whatsoever that are not included under the actual cost category "Independent Contracts" 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, engineering, equipment, supplies, accounting, etc.

12-2-55 gjw

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

RECEIVED
DEC - 1 1955

November 29, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

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

Subject: Docket DMEA 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Enclosed are six signed copies of Form MF-203 received from the applicant which appear to be in proper order.

Six copies of Form MF-201 were forwarded your office November 8, 1955.

E. N. Harshman

E. N. Harshman

Enclosures

12-2-55 ign

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

RECEIVED
DEC - 1 1955

November 29, 1955

224 New Customhouse
Denver 2, Colorado

Mr. George Travis, Operating Manager
Price Exploration Company
615 North First Street
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium),
Price Exploration Company,
North Pumpkin Buttes Property,
Campbell County, Wyoming

Dear Mr. Travis:

This will acknowledge receipt of your letter dated November 25, 1955 and the original and five copies of Form MF-203, Owner's Consent to Lien signed by W. Don Quigley, George H. Gaul, and Robert H. Miller.

These copies of the Owner's Consent to Lien have been forwarded to the DMEA Washington office.

Very truly yours,

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

HMC:ab

cc: Sec. Op. Comm. (2)

11-28-55 [illegible]

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

November 23, 1955

224 New Customhouse
Denver 2, Colorado

RECEIVED
NOV 25 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Enclosed are four copies of a memorandum dated November 19, 1955 from the field which answers the questions raised in your letter of November 3, 1955 on the subject docket.

W. M. Traver

By J. W. Townsend

Enclosures

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

November 19, 1955

Memorandum

To: W. M. Traver, Executive Officer, IGRA Field Team, Reg. III
Through: E. H. Harshman, U. S. Geological Survey

From: M. F. Cuppels and E. C. Binyon

Subject: Docket IMLA 5855 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming.

The data on the hole numbers and location of the 147 holes mentioned in the Quigley letter-report of August 19, was given to the examining team verbally by the operator's geologist. Included in the 147 holes were holes which were drilled in Areas E, H, O, V, and [illegible] and these holes with the holes previously drilled in Areas E', H, O, V, and W as listed in the Quigley letter of June 27, are the total holes drilled in the areas .

Through an oversight, the data obtained verbally were not listed separately and no specific designation of the number of holes drilled in these areas, in addition to those in the June 27 letter, was included in the report of examination. The additional holes, however, were included in the total of holes drilled in the table on page 13 of the report, and were deducted from the total number of holes proposed by the applicant.

AREA E. It was the understanding that the 4 holes had been drilled in this area since Area E' was not included as a drilling area in the application but possibly this was a misunderstanding and an error was made in deducting the holes from Area E. However, the exploration of Area E will not be adversely affected if holes No. 1, 2, 3, and 4 are not included in the initial drilling as proposed offset holes can be drilled to explore around holes in the row; hole 6-12 that may show mineralization. It is therefore suggested that only the 14 holes (No. 5 through 18) recommended in the report be drilled in the initial drilling stage in this area.

AREA H. From the verbal report, Holes No. 7, and 15 through 21 or 8 holes located as shown in red on the map were drilled in this area and the results were unfavorable.

An error was made in deducting the 7 holes, numbered 15 through 21, from the holes proposed by the applicant.

The area, on the basis of the results from the drilling and geology, is of secondary importance and was proposed for Stage II drilling if Stage I drilling results warranted. Therefore it is suggested that 8 holes; Holes No. 1, 2, 6, 7, 11, 15, 19, and 22 be conducted and the remaining 16 be drilled.

The location, direction, inclination, and extent of all project work are subject to the approval of the Government.

STAGE I

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill approximately 145 holes aggregating not more than 5,800 feet. The positions of these holes are indicated on the attached maps labeled Figures 3, 4, 5, and 6, and are limited to the areas shown as A, B, C, E, P, Q, R, V, and W. Including the holes previously drilled by the Operator for his own account, the drilling plan for each area consists of holes in a hexagonal pattern on 100-foot centers.

If an area is proven unfavorable before the holes planned for that area are completed, the unused footage may be added to the footage planned for Stage II.

STAGE II

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill 145 holes, more or less, aggregating 5,800 feet, more or less, as offsets to Stage I holes that show significant mineralization. The offset holes shall not be drilled closer than 50 feet from any previously drilled hole.

STAGE III

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill approximately 107 holes aggregating not more than 4,280 feet. The positions of these holes are indicated on

Figures 3, 4, 5, and 6, and are limited to the areas shown as G, H, I, O, S, T, and U. The drilling plan for each area, as in Stage I, consists of holes in a hexagonal pattern on 100-foot centers. If an area is proven unfavorable before the holes planned for that area are completed, the unused footage may be added to the footage planned for Stage IV.

STAGE IV.

Prepare access roads and drill sites by a D-7 bulldozer or equivalent unit and drill 107 holes, more or less, aggregating 4,280 feet, more or less, as offsets to Stage III holes that show significant mineralization. The offset holes shall not be drilled closer than 50 feet from any previously drilled hole.

Estimated Cost of the Project

Actual Costs

Category (1) - Independent Contracts		
20,160 ft. rotary non-core drilling @ $0.75/ft.	$15,120.00	
40 hrs. bulldozer work @ $12.50/hr.	500.00	
Categories (2) through (7)	None	
Estimated total actual costs		$15,620.00

Fixed Unit Costs

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 scheduled above under the category "Independent Contracts." No other categories

AREA U. Six holes numbered 24, 25, 27, 28, 8[illegible], and 3[illegible] (verbal report) were drilled in this area inaddition to the 10 holes listed in the Quigley letter of June 27. A total of 16 holes drilled and 18 holes to be drilled under the contract.

AREA V. Verbal report: Holes No. 7, 8, and 15 drilled in this area in addition to the 9 holes listed in the Quigley letter of June 27. In all, 1[illegible] holes drilled and 7 recommended for drilling.

AREA W. A total of 13 holes were drilled in this area. In addition to the 6 holes numbered 5, 6, 7, 8, 10, and 11 mentioned in the Quigley letter of June 27, 7 holes numbered 14, 18, 19, 24, 25, 26, and 27 also were drilled in the area, (verbal report). It is recommended that the 1[illegible] holes (HolesNo. 2, 3, 8, 1[illegible], 15, 16, 17, 20, 21, and 2[illegible]) as marked on the map entitled Price Exploration Company, Topographical and Claim Map--Lone Butte Area which is a part of the report of examination, be drilled in this area.

In as much as the lime content is a fairly important factor in evaluating any ore deposit that might be discovered under the exploration program, and since the lime content in the area is quite variable and in some instances very high, it would seem that the information on the lime content should be obtained. It is therefore suggested that the price of $6.00 be allowed for analyses, however, if it is the policy not to allow for analyses of $CaCO_3$, then of course, the additional cost cannot be included.

Since the applicant has drilled and may be drilling at present in some of the areas designated as "Drilling Areas", it is suggested that he furnish a list of any holes that may have been drilled in these areas after the property was last examined.

R. F. Cuppels and E. C. Binyon

by

E. C. Binyon

cc: W. A. Traver (3)
Cuppels (2)
files (1)
Brochure enclosed

11-10-55

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

November 8, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Enclosed is an original and five copies of Forms MF-201 received in this office November 7, 1955 with two copies of the letter from the applicant dated October 10, 1955. Also enclosed are two copies of a Power of Attorney submitted by the applicant.

We have forwarded another original and six copies of Forms MF-203 to the applicant with specific instructions to have these forms signed by the property owners.

W. M. Traver

By J. W. Townsend

Enclosures

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

November 8, 1955

224 New Customhouse
Denver 2, Colorado

Mr. George Travis, Operating Manager
Price Exploration Company
615 North First Street
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Dear Mr. Travis:

This will acknowledge receipt of your letter dated October 10, 1955 in which you enclosed Forms MF-203 and Forms MF-201.

The Forms MF-201 are satisfactory since they are signed by John F. Christensen and Charles Christensen.

The Forms MF-203 must be signed by the owners of the property which according to your Lease Agreement are as follows:

W. Dan Quigley
George E. Gaul
Robert E. Miller

Enclosed are the original and six copies of Forms MF-203 to be signed by the above-named individuals. Please obtain all of the above-named owners' signatures on all copies of the Forms MF-203 and return all copies to this office so that we may continue to process your application.

The Forms MF-203 bearing your signature which were forwarded this office with your letter of October 10, 1955 and received in this office November 7, 1955 are of no value, because only the owners of a property have the right to place a lien against the property.

Very truly yours,

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

By J. W. Townsend
J. W. Townsend

HMC:ab
cc: Sec. Op. Comm. (2)

Enclosures

PRICE EXPLORATION COMPANY
HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

DMEA
Date Rec'd.
NOV 7 1955
BUREAU OF MINES
DENVER, COLORADO

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1288
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DAN MCCOLLOCH & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

Oct.10,1955.

Re: Docket DMEA 3835 (Uranium) Price Exploration Co., No. Pumpkin Buttes, Campbell Co., Wyo.

Mr. W.M.Traver,
Defense Minerals Exploration Admin.
224 New Customhouse,
Denver, 2, Colorado.

Dear Mr. Traver:

In re your letter of Oct.5,1955, enclosed find original and six copies of Form MF-203, Owner's Consent to Lien, which I have signed as operating manager of Price Exploration Co., by authority of attached Power of Attorney.

Also find original and six copies of Form MF-201, Subordination Agreement, signed by Charles Christensen and John Christensen.

Yours very truly,

Price Exploration Co.
by George Travis

615 N. First St.,
Grand Junction, Colo.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That PRICE EXPLORATION COMPANY, a copartnership in which HAROLD C. PRICE is a general partner, does hereby appoint GEORGE G. TRAVIS as attorney for said partnership and in the name of the partnership to make and enter into with the Atomic Energy Commission and any other agency of the United States of America, ore purchase agreements and other applications and contracts pertaining to exploration for and production and sale of uranium and other minerals or the milling, transportation or processing thereof. And said attorney is authorized to execute in connection therewith all applications, agreements, permits, assignments, contracts and other undertakings or instruments which are necessary or desirable, hereby ratifying and confirming all that said attorney, or his substitute or substitutes, shall lawfully do or cause to be done.

EXECUTED this 5th day of October, 1955.

PRICE EXPLORATION COMPANY

By Harold C. Price
Harold C. Price
General Partner

STATE OF OKLAHOMA
ss
COUNTY OF WASHINGTON

This instrument was acknowledged before me this 5th day of October, 1955, by HAROLD C. PRICE as a general partner of Price Exploration Company, a copartnership.

Harold C. Travis
Notary Public

My commission expires:
June 16, 1957.
(SEAL)

11-10-55 [illegible]

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

November 8, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: E. O. Bingen (With brochure)
N. F. Coppels

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Price Exploration Company, North Bangkin Butte Property, Campbell County, Wyoming

Enclosed is a copy of a letter from the Chairman of the Operating Committee dated November 3, 1955. Also enclosed is a copy of the brochure on this docket. Will you please advise the correct answers to each and every question asked by the Chairman of the Operating Committee, so that we may reply promptly to the letter.

Will you please return the copy of the brochure when it has served its purpose.

W. M. Traver

By J. W. Townsend

Enclosures

HMC:ab
cc: Chair. Op. Comm. (2)

11-8-55 zjm

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

November 8, 1955

RECEIVED
NOV - 3 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: Report of examination, DMEA Docket 3835, Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

I have reviewed the report of examination, DMEA Docket 3835, dated October 18, 1955, and received in this office October 27. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The Field Team has approved exploration assistance for the Price Exploration Company on their North Pumpkin Buttes Property, Campbell County, Wyoming, recommending a modified, two-stage drilling program at a total cost of $24,997.20. Government participation would be 75 percent of the total.

The Field Team concluded, and we agree, that the property warranted exploration because of (1) exposures of high-grade mineralization in trenches and at several other places on the claims; (2) numerous fairly strong surface anomalies; (3) favorable available geologic data concerning the area; and (4) the fact that the Kerr-McGee mine is producing ore from approximately the same stratigraphic interval in the Wasatch formation.

We are aware that certain minor conflicts in the drilling program as presented in the report of examination are being brought to the attention of the Field Team.

In accordance with the routing slip attached thereto, I am forwarding the report to the Chief, Division of Minerals.

John E. Crawford
John E. Crawford

Surname Copy
700

Cipp
Ellis
Selfridge
Johnson

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

NOV - 3 1955

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
27h New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3835 (Uranium)
Price Exploration Company
North Pumpkin Buttes Property
Campbell County, Wyoming

Dear Mr. Traver:

In reviewing the Report of Examination on the subject property, we note the following discrepancies in the proposed exploration program which require reconcilement or explanation:

Area E. Report shows 18 holes proposed, 4 holes drilled, 14 holes to be covered by contract. Quigley letter to Travis, dated June 27, shows no holes drilled in Area E but 4 holes drilled in Area E' which is located east of Area E. Should there not be 18 holes to be covered by the contract?

Area H. Report shows 24 holes proposed, 8 holes drilled, 16 holes to be covered by contract. The 8 holes drilled are numbered 7, 25, 26, 27, 28, 29, 30, and 31. Since the 24 holes proposed are numbered 1 through 24 and the above-mentioned Quigley letter shows no holes drilled in Area H, it would appear that there are 24 holes to be covered by contract.

Area O. Report shows 34 holes proposed, 16 holes drilled, 18 holes to be covered by contract. Since the Quigley letter of June 27 shows only 10 holes drilled, and a later letter of August 19 does not list the holes drilled in Area O, an explanation is requested.

Area V. Report shows 19 holes proposed, 12 holes drilled, 7 holes to be covered by contract. Our records show only 9 holes drilled. An explanation is requested.

Area W. Report shows 23 holes proposed, 9 holes drilled, 4 holes to be omitted, 10 holes to be covered by contract. Our records show only 6 holes drilled. An explanation is requested.

R.C.S.

It is presumed that the $6.00 price for analyses is for U_3O_8, V_2O_5, and $CaCO_3$. From the Government's standpoint, the $CaCO_3$ determination is not essential. In view of the large number of samples proposed (1,000), we propose to limit the analyses to U_3O_8 and V_2O_5 and the price to $5.00 per sample. Please advise if this is satisfactory.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

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

W. P. Williams (GCS)
Member, Geological Survey

MChing/izm
11/1/55
cc to: Admr. Reading File
Operating Committee
Docket
Code 700
Mr. Ching
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

11/4/55 gla

IN REPLY REFER TO:

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

RECEIVED
NOV - 3 1955

November 2, 1955

Memorandum

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

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

Subject: Review of Field Team Report, DMEA 3835 (uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming.

After field examination the examining team concludes that more exploration is warranted on the property and recommends approval of a project consisting of a total of 20,160 feet of air-rotary drilling. Total cost of the work is estimated at $24,997.00.

On page 29 of their report, the examining team recommends that when an area is proven unfavorable by only a part of the drilling allotted that a reassignment of the unused footage be made only after completion of Phase I in Stages I and II and that the reassignment be made by contract amendment. The recommendation is made to reduce "supervision and administrative work." DMEA contracts have heretofore been written in which drilling footage could be transferred to other stages subject only to approval by the Field Team. To require the operator to apply and wait for a contract amendment would necessitate either recessing the project with the probable dispersal of labor and equipment or the payment of large sums for stand-by time for drill crews and rigs.

Uranium ore is being produced in the vicinity of the property; and the applicant has been successful, by preliminary exploration work, in discovering ore. The chances that an exploration project would be successful appear to be excellent. For those reasons I agree with the Field Team's recommendation for approval of a DMEA contract.

W P Williams

W. P. Williams

10/31/55 glu

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

RECEIVED
OCT 24 1955

October 18, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

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

The field examiners recommend a modified, two-stage drilling program at a total cost of $24,997.20.

We concur in this recommendation.

Owner's Consent to Lien have been forwarded the applicant from this office.

W. M. Traver

E. N. Harshman

Enclosures

Maps filed see Encyclopedia for Maps (left side)

Reviewed by
DMEA OPERATING COMMITTEE
10-28-55

ON-SITE EXAM.

RECEIVED
OCT 24 1955 TRANSMITTED

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

OCT 18 1955

September 27, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Examining Team, N. P. Cuppels and E. C. Binyon

Subject: Report of Examination, DMEA Docket 3835 (Uranium), Price Exploration Co., North Pumpkin Buttes Property, Campbell County, Wyoming

Enclosed are the original and ten copies of a Joint Report of Examination on the subject property, including a Summary, Conclusions and Recommendations, and a Geologic and Engineering Report. Also enclosed are the following:

10 copies - Drilling report to George Travis from M. D. Quigley, dated Aug. 19, 1955, with assay results.
10 copies - Letter to N. P. Cuppels from M. D. Quigley dated August 22, 1955
10 copies - Drilling report to George Travis from M. Darwin Quigley dated June 27, 1955, with logs of holes.
10 copies - Letter to N. P. Cuppels from George Travis, Price Exploration Co., with assay results on trench samples.
2 copies each, Letter of transmittal for affidavit on property holdings (original copy and a copy)

Cuppels and this office have a copy of all letters and the affidavit.

The tracing of figure 1, location map, and prints of figure 2 and figure 3 are being forwarded under separate cover. Please return the tracing of figure 1.

Norman P. Cuppels
E. C. Binyon

By:

E. C. Binyon

Reviewed by
DMEA OPERATING COMMITTEE
10-28-55

RECEIVED
OCT 24 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3835, Price Exploration Company

North Pumpkin Buttes Property

Campbell County, Wyoming

Uranium

E. O. Binyon, Mining Engineer
Bureau of Mines

N. P. Cuppels, Geologist
Geological Survey

September 27, 1955

10-28-55

DMEA 3835

PRICE EXPLORATION COMPANY, APPLICANT
NORTH PUMPKIN BUTTES PROPERTY
CAMPBELL COUNTY, WYOMING

Summary, Conclusions, and Recommendations

By E. O. Binyon
Mining Engineer
Bureau of Mines

N. P. Cuppels
Geologist
Geological Survey

10-28-55

DMEA 3835

RECEIVED
OCT 24 1955

PRICE EXPLORATION COMPANY, APPLICANT
NORTH PUMPKIN BUTTES PROPERTY
CAMPBELL COUNTY, WYOMING

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By E. O. Binyon and N. P. Cuppels

The Price Exploration Company, a partnership, 615 North First Street, Grand Junction, Colorado, has applied to the Defense Minerals Exploration Administration for a loan for exploration for uranium on 23 favorable areas on its North Pumpkin Buttes property, which includes 25 unpatented lode mining claims, all located in Campbell County, approximately 42 miles south and slightly west of Gillette, Wyoming. (Fig. 1).

A field examination was made on July 26, 1955 in company with W. Don Quigley, consulting geologist. However, drilling data on recently completed holes which were not available at the time were not submitted until August 22, and in the interim, the applicant had completed three trenches and an additional 117 auger holes, and also had obtained chemical analyses on some cuttings from the holes, as well as on channel samples from the trenches. In view of the new work and additional information to be obtained, another examination was made on September 6 in company with M. Darwin Quigley, geologist for the applicant.

The area included by the property is in the Wasatch formation and is within a mineralized stratigraphic interval which is 450 to 900 feet above the base of the formation and is considered one of the chief prospecting guides in the Pumpkin Buttes area. In the eastern part of the property, ground level is 220 to 370 feet below the top of the favorable or mineralized interval, while in the western part on the Utah No. 1 - No. 4 claims group, ground level is from 0 to 180 feet below the top of the interval.

As in the general area, mineralization on the property is apparently of two types: small, high-grade (up to 23 percent U_3O_8) concretions that rarely exceed 20 feet in length and 10 feet in width, and the large disseminated deposits with a grade generally less than 1.0 percent U_3O_8. The concretionary deposits usually occur in buff to pink sandstones, while the disseminated deposits are usually found in a gray to green, poorly consolidated, fine- to coarse-grained sandstone. Radioactive "pumpkins" are common in the float on several claims, particularly on the Colorado No. 1 and No. 4, Arizona No. 1, and Utah No. 1 - 4 claims, and surficial areas of anomalous radioactivity are abundant.

As a result of the recently completed drilling and trenching on the Colorado No. 1 claim, area F, and the drilling in area B on the Colorado No. 4 claim, two ore deposits have been discovered, and the one in area F is exposed in two of the three trenches dug in this area. To date no ore has been produced from the property. However, there has been production from the area, the Kerr-McGee mine, 2.5 miles northeast of the property, having produced more than 2,500 tons from a disseminated type deposit.

The applicant proposes to explore 23 areas on 19 of the 25 claims included in the property by plug-bit drilling, and a minor amount of core drilling - one core drill hole to each area. In all, 492 holes, or a total of 19,720 feet, are proposed, with 470 holes, or 18,800 feet, being drilled by plug-bit and 23 holes, or 920 feet, by core drill, at an estimated cost of $24,708.50.

As a result of the examination and discussions with the applicant's geologist, it is concluded that the property should be explored under

a modified program to include only 16 of the 23 areas, with the drilling being done in two stages of two phases each.

Under Stage I, Phase I, nine areas, A, B, C, E, P, Q, R, V, and W, as designated on the applicant's "Topographical and Claim Map," are to be drilled on a hexagonal pattern, with holes to a depth of 40 feet spaced on 100-foot centers. Phase II, or offset drilling around the mineralized holes of Phase I, is to be carried out after completion of Phase I.

Stage I is to be completed and the results evaluated before Stage II is started. If the results indicate that further exploration is warranted, then drilling of areas G, H, I, O, S, T, and U would be done under Stage II. The number of holes, depth and footage allotted to each phase of Stages I and II are:

	No. of holes	Depth of holes	Footage
Stage I			
Phase I	145	40	5,800
Phase II	145	40	5,800
Total	290		11,600
Stage II			
Phase I	107	40	4,280
Phase II	107	40	4,280
Total	214		8,560
TOTAL, Stages I and II	504		20,160

The estimated cost of drilling the 11,600 feet allotted to Stage I, Phase I and Phase II, using the unit cost of $.92 per foot, and with an allowance of 58 percent, or $3,741.00 to this stage for other independent contracts and analyses, is $14,413.00. For Stage II, Phase I

and Phase II, drilling of 8,560 feet at $.92 per foot and an allowance of $2,709.00 for independent contracts and analyses, the estimated cost is $10,584.20.

The cost of the entire project is estimated to be $24,977.20, of which the government's share at 75 percent participation is $18,747.90.

It is recommended that a unit cost, short form contract for a modified, two-stage program be approved for a total of $24,997.20.

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NORTH PUMPKIN BUTTES PROPERTY
CAMPBELL COUNTY, WYOMING

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ILLUSTRATIONS

Figure

1 Location Map, North Pumpkin Buttes Property, Price Exploration Company, Campbell County, Wyoming

2 Claims and Geology, Price Exploration Company, Campbell County, Wyoming

3 Area F, Colorado No. 1 Claim, North Pumpkin Buttes, Price Exploration Company, Campbell County, Wyoming

DMEA 3835

PRICE EXPLORATION COMPANY, APPLICANT
NORTH PUMPKIN BUTTES PROPERTY
CAMPBELL COUNTY, WYOMING

Engineering and Geologic Report

By E. O. Binyon
Mining Engineer
Bureau of Mines

N. P. Cuppels
Geologist
Geological Survey

10-28-55

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PRICE EXPLORATION COMPANY
NORTH PUMPKIN BUTTES PROPERTY
CAMPBELL COUNTY, WYOMING

ENGINEERING AND GEOLOGIC REPORT

by

E. O. Binyon and N. P. Cuppels

INTRODUCTION

The Price Exploration Company, a partnership, 615 North First Str., Grand Junction, Colorado, has submitted an application to the Defense Minerals Exploration Administration for a loan to aid in the exploration for uranium of what the company refers to as its North Pumpkin Buttes property. The property, which is held under lease, comprises four separate groups with a total of 25 unpatented lode mining claims, all in Campbell County, Wyoming.

In the application, DMEA 3835, it is proposed to explore 23 favorable areas on 19 of the 25 claims included in the property by auger or plug bit drilling and a minor amount of core drilling.

A total of 493 holes 40 feet in depth, or an aggregate total footage of 19,720 feet, are proposed. Of the total footage, 18,800 feet or 470 holes, are to be by plug bit drilling and 920 feet, or 23 holes, are to be core drilled. All holes are to be spaced on 100-foot centers in a hexagonal pattern designed to encompass the mineralized areas as well as other areas which, though showing little or no mineralization, are also considered favorable for exploration.

The applicant's estimate of the total cost of the proposed exploratory work is $24,708.50, of which the government's share at 75 percent participation is $18,531.37.

An examination was made of the property on July 26, 1955 in company with W. Don Quigley, consulting geologist for the applicant. At the time of the examination, the data on some 97 holes that had been drilled in 15 of the 23 areas proposed for exploration were not available, and the applicant was requested to submit the data as soon as possible. These data, with additional data on both the drilling and trenching which had been completed after the examination, were submitted August 22 and 25.

Owing to the very great difference between the probe results for the 97 holes and the radiometric and chemical analyses reported for several of these holes, as well as on samples from the trenches, and also due to the fact that the applicant had reported ore deposits exposed in the trenches, it was considered advisable to examine and discuss the new developments with the applicant, and the property was re-examined on September 6 in company with M. Darwin Quigley, the applicant's consulting geologist.

As a result of the examinations and discussion of the recently completed drilling and trenching, it was concluded that the proposed exploratory drilling could be reduced somewhat, and it is recommended that government participation, in a modified, two-stage drilling program with two phases for each stage, be approved.

ACKNOWLEDGMENTS

To W. Don Quigley and M. Darwin Quigley, who accompanied the examining team on the original and second examinations respectively, acknowledgment is made for their courtesy and assistance.

Special acknowledgment is made to Eugene Grutt, Chief of the A.E.C.'s Casper, Wyoming, sub-office, Division of War Materials Exploration Branch, for his courtesy and the valuable information on both the geology and drilling experiences in the Pumpkin Buttes area.

LOCATION, TOPOGRAPHY, CLIMATE

The claims are in four separate groups, one group of 8 claims being located around the common corner of secs. 27, 28, 33 and 34, T. 45 N., R. 75 W. A second group of two contiguous claims are in the E½ and extend into the NE¼ and SE¼ of section 28. Eleven claims of a third group are in the SW¼ of sec. 28, the NW¼ of sec. 33 and the SE¼ of sec. 29, with a slight overlap into sec. 32, all in T. 45 N., R. 75 E., Campbell County, Wyoming. The fourth group of four claims, also in Campbell County, are approximately 2½ miles west and slightly south of the west limits of the third group in the SE¼ of sec. 35, T. 45 N., R. 76 W. The location of the claims is shown on the index map, figure 1.

Gillette, Wyoming, the county seat and a rail point on the Chicago, Burlington and Quincy, is the nearest community where supplies, labor and living accommodations are available, being about 42 miles by road north and slightly east of the easternmost claim.

To reach the property from Gillette, take the secondary road to Savageton, go past Savageton about 500 feet, and turn right onto a well-traveled, dirt road; continue on this road, bearing left at the first junction which leads to the Kerr-McGee mine, for 1/4 mile past the Lanby ranch; then turn right onto a fairly well-traveled road and go through a gate; then continue for about 1/4 mile in a northwest direction onto the Colorado No. 4 claim.

The area has no outstanding topographic features. The general altitude of the western and central part of the property is about 5,100 feet and on the westernmost claims, which are on the northern slope of Dome Butte, the altitude is about 5,200 feet. The relief is low and marked only by gently rolling hills cut by relatively shallow and fairly broad draws.

The main source of water supply in the area are wells and stock ponds on the nearby ranches. Any water required for drilling or small scale mining operations will have to be arranged for with individual ranchers and hauled to location.

There is no timber in the vicinity of the property or in the general area surrounding the Pumpkin Buttes.

The climate permits continuous operations for 9 to 10 months of the year. During the two or three months of winter and early spring the subzero temperatures, heavy snow, and rainfall make travel and outside work difficult and costly, and permits at best only intermittent operations.

No living facilities are available at the property, and unless trailer housing is used, employees will have to arrange for living accommodations in Gillette.

Labor and supplies, as well as some of the equipment that may be required for drilling and small scale mining operations, can be obtained in Gillette or Casper.

HISTORY AND PRODUCTION

Prospecting of the lands now included in the property was started early in 1952 about 6 months after the discovery of uranium in the

Pumpkin Buttes by J. D. Love of the U. S. Geological Survey. From May 1952 until December 1953, 14 claims were staked and recorded. Prospecting was continued and during 1954 and early 1955 an additional 11 claims were located.

Past work consisted of discovery pits and some holes drilled for validation and exploration. A total of about 120 holes distributed over all the claims had been drilled at the time of the first examination. Additional drilling in several areas and three trenches in areas on the Colorado No. 1 claim had been completed at the time the property was re-visited on September 6. There has been no production on the property.

OWNERSHIP AND EXTENT

The Price Exploration Company, a partnership with offices at 615 N. First Street, Grand Junction. Colo., holds the mineral rights on 25 claims included in the property under a 10-year lease agreement with W. Don Quigley, Salt Lake City, Utah., George H. Gaul, Palo Alto, Calif., and Robert H. Miller of Los Angeles. Photostatic copies of the lease agreement, as well as of a deed and assignment transferring ownership from Edward W. Graham of Salt Lake City to the leasors, W. D. Quigley and George H. Gaul and Robert H. Miller, accompanies the application. Also, a copy of a Royalty and Surface Damage agreement between the applicant and Charles and John Christensen of Gillette, Wyoming, has been submitted. The agreement provides for a payment covering possible damages to the surface on 19 claims and also for payment for possible loss of stock, as well as an additional reasonable amount for damages resulting from other excavation or earth moving.

As mentioned, the property includes 25 unpatented lode mining claims designated as: Arizona No. 1, 3, 4, 6 and 7; Colorado No. 1 through 5 and Nos. 7, 8 and 9; Utah No. 1 through 5 and Utah No. 7 through 13. The area included by the claims is approximately 493 acres, or about 23 acres less than if all the claims were full size.

A check of the number of claims mentioned in the application, page 1, page 11, and Exhibit 4A, page 17, against the number listed in the Lease Agreement shows that 25 claims are listed in both instruments. However, on page 11 of the application, the Colorado No. 10 claim is inadvertently included and the total number of claims, with the Colorado No. 10, shown on this page is 26.

On page 2 of the lease agreement, third paragraph, starting with "Now therefore," 24 claims are given as the total; however, 25 are listed in the first and second preceding paragraphs under "Witnesseth." The error may have been due to the overwrite on the Arizona No. 6 and the entry above the line of Arizona No. 7. However, this was noted as evidenced by the initialing. The matter was discussed with the applicant's geologist and he was requested to either submit copies of the corrected instrument or a statement concerning the correct number of claims to the Executive Officer. He was also informed that possibly a new set of Owner's Consent to Lien would be required.

GEOLOGY

Regional Geology

The North Pumpkin Buttes property of the operator is underlain by the Wasatch formation of Eocene age. Regionally, the formation consists of lenticular beds of sandstone, mudstone, carbonaceous clays, and low

rank coal. Although the sandstone is moderately well cemented in many exposures, the sediments for the most part are poorly consolidated. Partial erosion of the Wasatch sediments has produced a topography of low relief and gently rolling hills. In most places, bedrock is concealed by a grass cover and outcrops are found chiefly at the heads of small draws where erosion has been most active or at rare blowouts that are found on topographic highs where differential wind erosion has exposed sandstone facies of the Wasatch. The quartzitic ferruginous sandstone of the White River formation of Oligocene age caps North Pumpkin Butte 1.5 miles south of the Utah claims Nos. 1, 2, 3, and 4. The formation is about 250 feet thick and thins southward.

Local Geology

The North Pumpkin Butte property of the Price Exploration Co. consists of two major groups of claims: a western group that includes the Utah claims 1 through 4, and an eastern group comprising the Arizona claims 1, 3, 4, 6, and 7, the Colorado claims 1, 2, 3, 4, 5, 7, 8, and 9, and the Utah claims 5, 7, 8, 9, 10, 11, 12, and 13. The altitude of the eastern group is 640 to 800 feet below the altitude of the White River-Wasatch contact on North Pumpkin Butte. Allowing for a westerly dip of 30 feet per mile (Troyer, et al in U.S.G.S. Circular 338), ground level at these claims is 770 to 930 feet below the top of the Wasatch and 220 to 370 feet below the top of a stratigraphic interval of the Wasatch which has been favorable for uranium mineralization in the Buttes area. Ground level at the western group of claims is 500 to 680 feet below the top of the Wasatch and extends from the top of the favorable interval to 180 feet below the top.

A U. S. Geological Survey project headed by William N. Sharp has mapped the geology of the claim area on a scale of 1:18,000. Although the geologic map of the area is still being compiled, Sharp has provided the examining team with a preliminary map, figure 2, showing the distribution of sand lenses of the Wasatch near the claims and a major boundary between sandstones with a red coloration and gray to buff sandstones. A copy of this map is enclosed.

Several of these lenses were investigated by the examining team. The lense which underlies the Colorado No. 4 claim is exposed at a blowout that has been bulldozed to fulfill the requirements of a discovery cut. The lense is a light gray to buff, cross-bedded, micaceous, fine- to medium-grained sandstone. Sand grains are coated with hematite in bands that parallel the cross beds as well as the primary bedding. The exposure is 100 feet long, 75 feet wide, and 7 feet thick. Much of the float near this outcrop consists of spheroidally-shaped fragments of sandstone that are referred to locally as "pumpkins." Many of these "pumpkins" are heavily cemented with calcite and are coarser-grained than the sandstone in place. At a small exposure of the lense underlying the Colorado No. 1 claim, there seems to be an intimate association between red and gray sandstones. A medium-grained, red sandstone several feet thick is overlain by a light gray, fine-grained, cross-bedded sandstone. Although calcareous, ferruginous, coarse-grained, radioactive nodules can be found in both the red and the gray sandstones, they are more abundant in the red sandstone. Outcrops of sandstone are much more extensive on the Utah claims 1, 2, 3, and 4 than anywhere else on the property. Here, the claims are underlain by interbedded units of fine-grained, light gray sandstone and units of red, fine- to

medium-grained sandstone. Color changes follow knife-edge contacts. Both the red units and the gray units weather spheroidally.

Mineral Deposits

One of the chief prospecting guides to uranium ore in the Pumpkin Buttes area is a favorable stratigraphic interval that extends from 450 to 900 feet above the base of the Wasatch formation. Lenses of sandstone in this interval commonly have a red coloration that irregularly stains the sandstone in an outcrop area 10 to 15 miles wide and 25 miles long around the Buttes. The long axis of this outcrop area trends a little west of north. Host rock for most deposits in the area is either a sandstone stained red by iron oxides or a gray to buff-colored sandstone associated with the iron-stained sandstone. Manganese is concentrated in the rocks near many deposits. The ore is commonly in a medium- to coarse-grained, cross-bedded facies of the sandstone. The sandstone is characteristically lenticular with an average thickness of 30 to 60 feet.

Most uranium ore in the area is in small, high-grade, concretionary deposits or in large, low-grade, disseminated deposits. The concretionary deposits are generally found in buff to pink sandstone and have grades as high as 23 percent uranium. These concretions are variable in size but are rarely more than 15 to 20 feet in length and 5 to 10 feet in width. Radioactive minerals are either yellow or black and uranophane and uraninite have been identified from this type of deposit. The disseminated deposits are generally found in a gray to green, poorly consolidated, fine- to coarse-grained sandstone. This sandstone is lenticular and commonly several hundred feet in length. Grade of the mineralized sediments is generally less than 1.0 percent uranium and the eU/U ratio tends to be greater than 1.0.

Local Deposits

The Kerr-McGee mine at anomaly 119, 2.5 miles northeast of the eastern group of claims, is an open cut roughly 300 feet wide, 400 feet long and 20 feet deep. More than 2,500 tons of ore have been taken from this mine and it is still in production. This mine has produced more ore than any other in the Pumpkin Buttes area. The cut, and presumably the ore, is U-shaped with the top of the U pointed north. Arms of the U are 80 feet wide and 200 feet long. Stratigraphic and lithologic features associated with the disseminated, carnotite-type ore are very well exposed in the cut. The stratigraphic interval consists of a series of sandstone lenses most of which are less than 4 feet thick and 30 feet long. Some of the lenses are colored red and interfinger with buff to light gray sandstone lenses. Contacts between the red sandstone and buff to gray sandstone are sharp. Grain size of the sandstone ranges from fine to coarse in well-sorted, thin strata. Most of the sandstone is poorly cemented with silica but several beds, less than 6 inches thick, are well cemented with calcite. Lenses of light to dark gray, carbonaceous mudstone, less than a foot thick, underlie the ore zone at several places. Small flecks of charcoal-like organic material were noted in this mudstone. The ore is irregularly distributed through a vertical zone 8 feet thick. The ore and red sandstone appear to be mutually exclusive. A yellow-green, non-radioactive mineral coats the grains of some of the gray sandstone in the ore zone. In some exposures, it is difficult to distinguish between this green mineral and the lemon-yellow ore minerals. Although much of the ore is visibly mineralized, the highest reading taken from a scintillator in the mine (2.0 mr/hr) was obtained from a medium-grained, sandstone that was moderately stained with yellow-brown

oxides of iron but lacked visible mineralization.

Seven localities of known mineralization within the boundaries of the property of the operator are described in U. S. Geological Survey Circular 338. Sample data from these localities are listed below.

Locality No.	Claim	eU%	U%
4	Arizona No. 1	14.2	17.08
5	Colorado No. 2 or Utah No. 10	10.0	8.43
6	Colorado No. 4	3.2	3.98
7	Colorado No. 8 or Colorado No. 9	6.7	7.70
43	Colorado No. 3	1.0	0.92
9 & 10	Utah Nos. 1, 2, 3, or 4	5.7	6.34
		4.2	4.72
		1.9	2.97

Although the type of deposits from which these samples were taken is not made clear in the Circular, they almost certainly were taken from the concretionary type of deposit. Uranium content of the disseminated type of ore rarely exceeds 1.0 percent.

Radioactive "pumpkins" are common in the float of several of the claims and surficial areas of anomalous radioactivity are abundant. Radioactive "pumpkins" were noted particularly on Colorado No. 1 and 4, Arizona No. 1, and Utah 1, 2, 3, and 4 claims. Surficial radioactivity was checked with a model 111B, Precision scintillator and was found to have a background reading of 0.015 mr/hr. An anomaly on the Colorado No. 4 claim encompasses an area 30 feet wide and 50 feet long and produced a reading of 0.10 mr/hr or greater. The highest reading produced by a radioactive "pumpkin" was obtained on the Utah No. 4 claim where the scintillator registered 5 mr/hr.

ORE RESERVES

By using methods developed by the A.E.C. for computing reserves of ore deposits in the Black Hills, the ore body being investigated by the operator in the F area of Colorado No. 1 claim has 1,070 tons of

indicated ore with a weighted average grade of 0.23 percent uranium. Reserve computations for this ore body are based on chemical assays of samples taken by the operator from holes drilled by the operator.

Computation of reserves based upon probe data furnished by the operator is difficult because of the uncertain relationship between probe readings and chemical assays. The average eU/U ratio is 31 to 1 for all samples (14) with known percentages of chemical uranium. The ratios range from 2 to 1 to 200 to 1. If the two highest ratios are discarded (200 to 1 and 107 to 1), the eU/U ratio drops to 11 to 1. This unfavorable eU/U relationship is mitigated to some extent by results of chemical assays submitted to the examining team by the operator of 10 channel samples cut by the operator in trenches bulldozed on the Colorado No. 1 claim. These samples contained uranium ranging from 0.16 to 1.93 percent.

If a grade cut-off of 0.50 percent eU is used, ore bodies on Colorado claims Nos. 1 and 4 have an aggregate tonnage of 4,800 with a weighted average grade of 0.77 percent eU. If the cut-off is dropped to 0.20 percent eU, reserves on these claims reach 14,800 tons with a weighted average grade of 0.45 percent eU. As mentioned, the probe results are considered to be in error, and with the difference between the thickness as indicated by probing and as disclosed by trenching, and the variation between chemical and radiometric assays, the estimate in the preceding paragraph is practically a guess.

PRESENT STATUS, EXPLORATION AND DEVELOPMENT

The operator has drilled 214 holes in the area covered by his application since the application was submitted. Copies of two reports

describing this drilling and submitted to the operator by his geologist have been received by the examining team and are included in this report. Information as to the location of these holes is summarized below.

Drill Area	Holes Drilled*	No. of holes
"A"	1	1
"B"	1	1
B	8, 9, 10, 11, 13, 14, 15, 16, 17	9
C	11, 12, 13, 14	4
D	6, 7, 8, 11, 12, 13	6
"F"		1
E'	1, 2, 3, 4	4
F	1, 4, 7, 10, 13, 17, 20, 24, 26, 14, 18, 23, 27, 28	15
G	5, 10, 13	3
H	7, 25, 26, 27, 28, 29, 30, 31	8
I	8, 10, 13, 15, 18, 20, 23, 25, 28, 30	10
J	10, 11, 12, 13, 14, 15, 16	7
K	2, 3, 4, 6, 7, 8, 9	7
L	12, 13, 14, 15, 16	5
M	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	10
N	3	1
O	1, 4, 6, 10, 12, 16, 18, 21, 22, 24, 25, 27, 28, 30, 32, 33	16
S	11, 12, 13, 14	4
T	7, 8, 9, 10, 11, 12, 13, 14	8
V	2, 5, 6, 7, 8, 10, 11, 13, 14, 15, 18, 19	12
W	5, 6, 7, 9, 10, 11, 14, 18, 19, ~~24, 25, 26, 27~~	~~13~~ 9

* Numbers correspond to holes proposed in the application.

Of the remaining 69 holes, 54 were drilled in Area F on 25- and 50-foot centers to delineate the ore deposit and 15 were drilled on various other claims. None of the 69 holes are holes that were included in the applicant's drilling program.

Data on mineralized holes encountered in the drilling are summarized below.

Claim	Hole No.	Anomaly *Probe depth	** Maximum Anomaly
Colorado 4	B-10	4 to 22 ft.	3.0 at 20 ft.
	B-16	18 to 22 ft.	0.2 at 22 ft.
	B-17	11 to 18 ft.	0.75 at 16 ft.
Utah 11	C-13	2 ft.	0.13 at 2 ft.
		7 ft.	0.13 at 7 ft.
Colorado 1	F-1	13 ft.	0.13 at 13 ft.
	F-10	13 to 18 ft.	0.22 at 15 ft.
	F-17	1 to 31 ft.	0.52 at 29 ft.
	F-20	1 to 26 ft.	0.60 at 26 ft.
	F-24	2 to 21 ft.	0.60 at 18 ft.
	F-26	4 to 20 ft.	0.50 at 20 ft.
Utah 1	W-6	5 ft.	0.15 at 5 ft.
		7 ft.	0.10 at 7 ft.
	W-10	8 ft.	0.13 at 8 ft.

* Probe depth indicates the vertical interval at which mineralization above 0.10 percent equivalent uranium was encountered.

** Maximum anomaly in percent equivalent uranium.

As indicated by the probe results, the mineralization in some of these holes is phenomenal. For example, probe readings of hole F-17 indicates that the interval from 1 to 31 feet is mineralized in excess of 0.10 percent equivalent uranium. Some of the other holes, notably F-20, F-24, and F-26, are similarly mineralized. There are several probable sources of error in these probe readings. The holes were probed with a "Universal" probe and counter, which had alledgedly been calibrated to read in percent of equivalent uranium. Details of this calibration were not divulged to the examining team, but we are of the opinion that calibrations of this sort are not reliable unless the calibration is checked against several hundred samples that have been collected from a restricted area, under similar lithologic conditions and with known grades. We do not believe that the operator's probe has been properly calibrated. Another probable source of error in probe results may be due to the operator's method of drilling. All holes for which

probe data are given have been drilled by auger. A rough approximation of the stratigraphic sequence can be maintained in auger drilling some types of sediment, such as cohesive claystone, but in the friable sandstone host rocks that are encountered in the Wasatch formation, it is very difficult to avoid severe contamination of the sediments. If the auger should penetrate a high-grade concretion, the entire hole could acquire anomalous radioactivity at the expense of the concretion. An additional source of error in the probe readings could be due to the radiometric equilibrium of uranium in disseminated deposits. The eU/U ratio tends to be greater than 1.0 and Mr. Grutt mentioned several samples from disseminated deposits in the Pumpkin Buttes area which had eU/U ratios of 500 to 1. Chemical and radiometric assays have been made (see attached sheet) of 14 samples collected from drill holes on the claims. The average eU/U ratio is 31 to 1 and ranges from 200 to 1 to 2 to 1. These ratios suggest mineralization of the disseminated type.

In a letter dated August 22, 1955, the operator's geologist notified the examining team of the discovery of an ore body in drill area F on the Colorado No. 1 claim. The operator has investigated this area by bulldozing trenches and drilling a number of 25- and 50-foot offset holes. A description of this investigation by the operator's geologist is quoted below:

> "In view of the inconsistency between probe readings and chemical assays from the area of mineralization found by auger drilling on Colorado No. 1, North Pumpkin Buttes, Wyoming, it was decided to channel cut the possible ore body. On August 18-20, three cuts were made by "cat" and "backhoe" digger. The longest of the cuts is about 75 feet in a NE-SW direction through hole #26. Pockets of ore were exposed intermittently throughout the length of the trench. In the bottom of the trench, at a depth of 10 feet, a continuous body of

ore counting from 2.00 percent to 3.00 percent was exposed. The sand was well cemented so that the "backhoe" digger could not cut through it, but the grade of ore was such that it is definitely commercial even though the thickness was not determined. It has a lateral extent of over 30 feet and an exposed thickness of at least two feet, with perhaps the richest ore on the bottom of the trench. The auger drilling indicated mineralization down to a depth of 17 feet so the ore body could have a thickness of 9 feet.

The second trench was cut north from trench #1 through the line of 25' auger holes. However, the top sand was heavily stained with limonite and too well cemented for the digger to penetrate.

A third trench was cut north from hole #28 to a maximum depth of 11 feet. This trench exposed rich carnotite ore over a lateral distance of 20 feet with a thickness of 2 feet. The auger drilling indicates mineralization down to a depth of 28 feet in this area."

On September 6, 1955, the examining team re-visited the property in company with the operator's geologist, Mr. M. Darwin Quigley, to investigate the cuts. The operator has unquestionably discovered ore in trenches 1 and 3. The ore bodies are difficult to classify, having characteristics of both the concretionary and disseminated types of deposit. The ore is in pod-shaped bodies and lenses 1 to 30 feet long and 1/2 to 2 feet thick. One lense of ore was found in trench No. 3 and five pods and lenses of ore have been exposed at irregular intervals along the faces of trench No. 1. The lenses and pods are composed of a medium-grained sandstone that has functioned as a host for concentrations of limonite, hematite, pyrite, manganese, and a yellow radioactive mineral that resembles uranophane. The uranophane (?) tends to be concentrated along the tops of the bodies as interstitial fillings of the sandstone and in some places it is thinly disseminated in adjacent country rock. Sand-sized particles

of a black radioactive mineral were found in minor quantities associated with the uranophane (?). One of the ore occurrences is in a confused mixture of clay-galls, silt-galls, carbonized organic debris, and medium- to coarse sandstone.

The ore bodies are separated by light gray, massive, friable, fine- to medium-grained, feldspar-bearing sandstone. In some places, the color of the sandstone has a pale pink overtone and pods of the sandstone having a strong hematitic coloration are closely associated with the ore. Distinct bedding planes in the sandstone are sharply truncated. Chemical weathering has reduced much of the feldspar to clay. Calcium carbonate is irregularly but persistently distributed through the sandstone and ore bodies as cement and as small, discrete, fluorescent particles that have a marl-like texture.

Three samples were collected from a continuous channel cut from the top of the highest ore body in trench No. 1 to the bottom of the trench. This channel is 6 feet long, extending from 5 to 11 feet below ground level. Samples were taken from an upper lense of ore 2 feet thick, from a lower lense of ore 1 foot thick, and from 3 feet of barren country rock separating the two lenses of ore. As determined by a scaler operated by the Hot Springs office of the A.E.C., the three units have the following percentages of equivalent uranium: upper lense of ore, 0.09; lower lense of ore, 0.43; and country rock, 0.01.

In a letter dated September 1, 1955, the operator submitted results of chemical assays of 10 channel samples taken in these cuts. A copy of the letter and assay results and a map (figure 3) showing the drilling and trenches in Area F, are included with this report.

All samples represent a 1-foot interval in a channel and the sample listed on the assay sheet includes only mineralized intervals in a channel, the barren interval having been omitted; i.e., in trench 1, channel cut No. 3, the intervals between 10 and 11 feet and from 15 to 16 feet are mineralized and the four intervals for 11 to 15 feet are either barren or only weakly mineralized. With one exception, Pexco Trench No. 3, CC-1, 10 to 11 feet, the uranium content in the samples is above ore grade, or .10 percent U_3O_8.

MINING AND MILLING EQUIPMENT AND OTHER FACILITIES

There is no mining or milling equipment, or any surface facilities on the property.

PROPOSED EXPLORATION

As originally proposed in the application, 23 areas considered favorable for exploration designated by letters A through W and located on 19 of the 25 claims, as shown on the applicant's topographic and claim maps, were to be explored by auger or plug-bit drilling and by core drilling one hole in each area.

In all, 493 holes 40 feet in depth, or a total of 19,720 feet, were to be drilled in the 23 areas. Of this total, 470 holes or 18,800 feet were to be drilled by plug-bit or auger and 23 holes, or 920 feet, were to be core drilled.

All areas are to be drilled on a hexagonal grid or drill pattern with the number of holes varying from 10 to 34, depending on the size of the area, and the hole spacing on 100-foot radius. As proposed by the applicant, the drilling is to be in one stage with a reservation that if the drilling completed in a part of an area proves that area

unfavorable, the footage remaining may, by agreement with the DMEA field team, be used for either closer spacing of holes or be transferred to more favorable areas.

Except for a suggestion that a closer hole spacing may be required where the initial drilling proves favorable, the applicant has not included any offset drilling in the proposed program, and also has not included an estimate of either the number of samples to be analyzed or the total cost for analyses. However, it is stated that a price of $6.00 will be charged against the contract for each sample assayed and so reported in the monthly reports. The applicant's estimate of the total cost of the exploration program, not including any allowance for the offset holes or sample analyses, as mentioned, is $24,708.50, the government's share at 75 percent participation being $18,531.37.

The exploration program as proposed by the applicant is well planned; however, in the opinion of the examining team, the property can be adequately explored under a modified program that, while requiring no more supervision on the part of the applicant, will reduce the work in administration of the contract.

Under the modified program proposed by the examining team, the exploratory drilling is to be in two stages, the drilling under Stage II being dependent upon the results obtained in Stage I.

Each stage drilling is to be divided into two phases, with the drilling under Phase I confined to the initial or grid drilling of the hexagonal pattern on a hole spacing of 100 feet, as outlined in the application. Under Phase II, offset holes are to be drilled around the mineralized holes of Phase I in an area only after completion of Phase I. The areas to be drilled, with the number of holes proposed by the

applicant and the holes and footage proposed under each stage and phase of the modified program, are tabulated below.

Stage I

Phase I

This phase should be devoted to drilling the following areas which have been selected from those proposed by the operator. These areas afford the best possibilities of locating ore and data obtained would have a bearing on Stage II drilling. Drilling in each area should follow the operator's plan, i.e., each area would be drilled in a hexagonal pattern, on 100-foot centers, and to a depth of 40 feet.

Drill Area	Number of holes proposed	*Number of holes recommended	Total Footage
A	25	25	1,000
B	30	21	840
C	22	18	720
E	18	14	560
F	27	-	-
P	10	10	400
Q	20	20	800
R	20	20	800
V	19	7	280
W	23	10	400
TOTAL		145	5,800 ft.

Phase II

Offset holes on 50-foot centers around mineralized holes of Phase I, 145 holes at 40 ft. per hole - Total Footage 5,800 ft.

Total Stage I, Phase I and Phase II 11,600 ft.

* Recommended holes are proposed holes from which holes that have been drilled have been deducted, except in Area W where 4 additional holes (1, 4, 13, and 23) have been subtracted.

Stage II

Phase I

Drill Area	Number of holes proposed	*Number of holes recommended	Total Footage
G	13	10	400
H	24	16	640
I	31	21	840
O	34	18	720
S	20	16	640
T	23	15	600
U	11	11	440
TOTAL, Phase I		107	4280

Phase II

Offset holes on 50-foot centers around mineralized holes of Phase I, 107 holes at 40 feet per hole	4280
TOTAL, Stage II, Phase I and Phase II	8560
Stage I, Phase I and Phase II	11600
TOTAL FOR CONTRACT	20160

"Mineralized Hole" is here defined as a hole from which the drill cuttings have at least 0.5 percent equivalent uranium through a drilling interval of at least 1 foot.

* Recommended holes are proposed holes from which holes that have been drilled have been deducted.

Following is a brief summary of the geologic basis for exploring the areas under the two stages and for no exploration of those areas as designated.

Drill Area

A Approved for Stage I drilling.

In this area, outcrops of a thick sandstone show a change in color from red to buff and light gray. Anomalous radioactivity and mineralization are associated with the color change and drilling by the operator in Area B suggests good mineralization at reasonable drilling depths. Lithology is similar to that of rocks exposed at the Kerr-McGee mine.

B Approved for Stage I drilling.

Lithology and anomalies similar to those in Area A.

C Approved for Stage I drilling.

Lithology and anomalies similar to those in Area A.

D Disapproved for drilling under the DMEA program.

Preliminary drilling by the operator has produced negative results and the area would require drilling to a depth of 100 feet to explore the shallowest sandstone capable of producing ore. Drilling to this depth is not justified.

E Approved for Stage I drilling.

A surface sandstone about 20 feet thick could be the host for an ore body. Fair surface anomalies and the proximity of this drill area to areas A, B, and C warrant its inclusion in Stage I drilling.

F Not included. Drilled out by applicant.

G Approved for Stage II drilling.

Geologic mapping by the U. S. Geological Survey suggests that a thick sandstone may underlie this area. The operator

DRILL AREA

G (cont.) drilled 3 holes with negative results. Favorable results from Stage I drilling of area F might warrant inclusion of this area in any subsequent drilling.

H Approved for Stage II drilling.

It is possible that the sandstone of area G may extend into this area. Although no anomalous radioactivity was found by the operator during preliminary drilling, the area should be drilled out if area G proves to be favorable for Stage II drilling.

I Approved for Stage II drilling.

The same general considerations apply to this area that apply to areas G and H.

J Disapproved for drilling under the DMEA program.

No significant sandstone underlies this area within 40 feet of the surface and there is no justification for deeper drilling.

K Disapproved for drilling under the DMEA program.

This area is rejected for the same reason as area J. The operator has drilled 12 holes in areas K and L with negative results.

L Disapproved for drilling under the DMEA program.

Rejected for same reason as area K.

M Disapproved for drilling under the DMEA program.

No significant sandstone underlies this area within reasonable drilling depths.

N Disapproved for drilling under the DMEA program.

Rejected for same reason as area M.

Drill Area

O Approved for Stage II drilling.

Although no mineralization was found by the operator during preliminary drilling, a surficial dark brown sandstone, 15 to 20 feet thick, may contain an ore body. Concretions with anomalous radioactivity are fairly common in the float and red-brown oxides of iron are unusually concentrated in the sandstone.

P Approved for Stage I drilling.

This area is underlain by a sandstone 40 feet thick which could be a favorable host rock. Within this sandstone color changes from red to buff or light gray are abrupt. Red-Brown concretions of iron oxides are common and surficial anomalous radioactivity is extensive.

Q Approved for Stage I drilling.

Lithology and anomalies similar to those of area P.

R Approved for Stage I drilling.

Lithology and anomalies similar to area P.

S Approved for Stage II drilling.

Sandstone which outcrops in area P is much thinner and has a bleached appearance here, but a lower sandstone could be reached at a depth of about 75 feet. If drilling in areas Q and R locate ore, this area should be drilled.

T Approved for Stage II drilling.

Same considerations apply here as in area S.

U Approved for Stage II drilling.

Same considerations apply here as in area S.

Drill Area

V Approved for Stage I drilling.

Lithology and anomalies similar to those found in area P.

W Approved for Stage I drilling.

Lithology and anomalies similar to those in area P.

ESTIMATE OF COSTS

Assuming that only one rig is to be used and allowing 300 feet for one shift's drilling, the time required to complete all drilling under Stage I and Stage II, or 20,160 feet, is approximately 2½ months which, with the half month for the final report, or 3 months, is the basis for the estimated costs.

The applicant was requested to submit at least three separate bids on the proposed drilling; however, these have not yet been received. From the average drilling cost on the Colorado Plateau, in the Edgemont district, and from a statement by a driller in the Pumpkin Buttes area, it is assumed that $.70 per foot is a liberal allowance for drilling 40-foot depth holes where the topography permits ready access.

Stage I	No. of holes	Hole Depth	Total Footage
Phase I	145	40	5,800
Phase II (offset)	145	40	5,800
Total, Stage I			11,600
Stage II			
Phase I	107	40	4,280
Phase II (offset)	107	40	4,280
Total, Stage II			8,560
TOTAL, STAGES I AND II	504		20,160

Independent Contracts		
Rotary Drilling (Air) - 20,160 ft. @ $.70 per ft.		$ 14,112.00
Bulldozing drill site		
Preparation, 4 days @ $100 per day	$400.00	
Move-in charge	50.00	
		450.00
TOTAL, Independent Contracts		$ 14,562.00
Labor, Supervision and Consultants		
1 - Field Assistant @ $400 per mo. for 3 mos.	$1,200.00	
1 - Geological Supervisor & Expenses $650 per mo. for 3 mos.	1,950.00	
TOTAL, Labor, Supervision and Consultants		3,150.00
Operating Materials and Supplies		
Office supplies (Maps, logs etc.) @ $25 per mo. for 3 mos.	75.00	
Gas, oil & misc. mileage for field assistant's car - 1000 miles per mo. - 3,000 miles @ 3¢ per mile	90.00	
Mileage for supervisor's car, 500 mi. per mo. 1,500 miles @ 3¢ per mile	45.00	
Trailer fuel, $10 per month for 3 mos.	30.00	
Sample sacks, 6,000 @ $10.00 per M	60.00	
TOTAL, Operating Materials and Supplies		300.00
Operating Equipment		
Use allowance on field assistant's auto @ 1/60 of $2400., $40 per mo. for 3 mos.	120.00	
Use allowance of supervisor's auto, 1 mo. allowed @ 1/60 of $1800	30.00	
House trailer @ 1/60 of $1500, or $25 per mo. for 3 mos.	75.00	
Radiometric counter and probe, use allowance @ 1/60 of $480 or $8.00 per mo. for 3 mos.	24.00	
TOTAL, Operating Equipment		249.00
Rehabilitation and Repairs		---
None for land damage None for autos (included under gas, oil and misc. and use allowance, approximately $.07 per mile for 4,500 miles)		
New Buildings and Improvements		---

Miscellaneous

Payroll taxes, FICA @ 2% of $2,250	$ 45.00	
Compensation & liability insurance, 3% of $2,250	67.50	
Bookkeeper, 3 mos. @ $50 per mo.	150.00	
Chemical Analyses - 200 holes @ 5 samples per hole, 1000 samples @ $6.00 ea.	6,000.00	
TOTAL, Miscellaneous		$ 6,262.50
Contingencies, 10% of $3,950 (rounded) (Does not include independent contracts or chemical analyses)		395.00
TOTAL		$ 24,918.50

Unit Costs

	COST	
	Total	Per Foot
Independent Contracts		
Rotary drilling, unit-feet	$ 14,112.00	$ .700
Labor, supervision and consultants	3,150.00	.156
Operating Materials and Supplies	300.00	.015
Equipment	249.00	.012
Miscellaneous (less analyses)	262.50	.013
Contingencies	395.00	.020
	$ 18,468.50	$ .916*

* Use $.92 per foot.

Other Independent Contracts		
Bulldozer work	450.00	.022
Chemical Analyses	6,000.00	.298
TOTAL	$ 24,918.50	$1.236

Summary - Costs of Project

Stage I		
Phase I - Rotary Drilling - 145 holes, 5,800 ft.	$ 5,336.00	
Phase II - Rotary Drilling - 145 holes, 5,800 ft.	5,336.00	
TOTAL, Stage I		$10,672.00
Stage II		
Phase I - Rotary Drilling - 107 holes, 4,280 ft.	$ 3,937.60	
Phase II - Rotary Drilling - 107 holes, 4,280 ft.	3,937.60	
TOTAL, Stage II		7,875.20
TOTAL, Stages I and II		$ 18,547.20
TOTAL, Stages I and II, Other Independent Contracts and Chemical Analyses		6,450.00
TOTAL COST OF PROJECT		$ 24,997.20
Government's participation @ 75%		$ 18,747.90

CONCLUSIONS

The North Pumpkin Buttes property is in the mineralized stratigraphic interval of the Wasatch.

From the available geologic data, the exposures of high-grade mineralization in the trenches and on several of the claims, and the numerous fairly strong surface anomalies found on the property, as well as the fact that the Kerr-McGee mine, 25 miles northeast of the easternmost claims, has and is now producing ore from approximately the same stratigraphic interval in the Wasatch, it is concluded that the property warrants exploration under the modified drilling program as described above.

RECOMMENDATIONS

Government participation in the modified two-stage drilling program, with each stage divided in two phases, is recommended.

Drilling of Stage II is to be dependent upon the results of Stage I. Under Stage I, drilling is to be confined to nine areas designated A, B, C, E, P, Q, R, V, and W, as shown on the applicant's topographic and claim map, and under Phase I, Stage I, a total of 145 holes or 5,800 feet, are to be drilled. Phase I shall be completed before proceeding with Phase II, or offset drilling. Under Phase II, Stage I, a total of 145 holes, or 5,800 feet, are to be allowed. Under Stage II, if, as stated, the results of Stage I drilling warrant, areas G, H, I, O, S, T, and U will be explored. A total of 107 holes, or 4,280 feet, shall be drilled under Phase I, Stage II, and an equal number of holes (107) and footage (4,280 feet) shall be allowed for offset drilling under Phase II upon the completion of Phase I.

The option requested by the operator to eliminate some of the proposed holes for any particular area when the area is proven unfavorable by only a part of the drilling allotted and to transfer the remaining footage to more favorable areas is reasonable. However, it will add to both supervision and administrative work. It is therefore recommended that a reassignment of the footage be made only after the completion of Phase I of both Stage I and Stage II, and that the applicant request an amendment for reassignment of all or any part of any remaining footage to other areas.

As mentioned, no offset drilling is to be done before completion of Phase I or initial grid drilling. The rapid facies changes in the Wasatch formation make it advisable to have as much information as

possible on the area in order to determine how much, if any, offset drilling should be done.

From the information supplied by Eugene Grutt, Chief of the A.E.C.'s sub-office at Casper, Wyoming, and also from the results of the applicant's attempt to core drill several holes on the property, core drilling of the Wasatch formation in the Pumpkin Buttes area is not feasible.

The applicant stated that four inches of core had been recovered from approximately 140 feet of hole, and Mr. Grutt was emphatic in stating that previous attempts by the A.E.C. and by others to core drill the formation had been very unsuccessful.

The applicant has used an auger for drilling most of the holes drilled to date. The results have been satisfactory from the standpoint of footage per shift; however, a comparison between the thicknesses and grades obtained in the trenches and that obtained by probing auger holes show the probe results indicating a much higher grade over a greater thickness than is the case, and it is believed that the errors are due mainly to the use of the auger. It is recommended that all drilling be done with an air blast, rotary type or wagon drill, equipped with a Duclone sample collector.

It is believed that the drilling, probing and sampling methods used by the operator in the past work have resulted in misleading results as to thickness and grades. Should the operator continue to use the same radiometric methods for probing and for sample cuttings, it is suggested that only samples with .5 percent equivalent U_3O_8 or better be analyzed chemically.

Samples should be taken at $2\frac{1}{2}$-foot intervals except when in a mineralized zone, and here the interval should be reduced to 1 foot, those samples, as stated above, showing .5 percent or more equivalent U_3O_8 being run by chemical analyses.

Probing and logging of holes is, of course, the responsibility of the operator. However, it is suggested that no payment of monthly vouchers be made until complete hole data, including radiometric and lithologic logs, and all sampling records are submitted to the examining team. Payment for drilling should be based on probed footage rather than footage drilled.

A unit-cost, short form contract is recommended for the modified program. The total expenditure under the contract shall not exceed $24,997.20, of which the government's share at 75 percent participation is $18,747.90, as shown under "Summary - Costs of Project."

August 22, 1955

COPY

Mr. Norman P. Cuppels
P. O. Box 891
Hot Springs, S. D.

Dear Mr. Cuppels:

In view of the inconsistency between probe readings and chemical assays from the area of mineralization found by auger drilling on Colorado #1, North Pumpkin Buttes, Wyoming, it was decided to channel cut the possible ore body. On August 18-20, three cuts were made by "cat" and "backhoe" digger. The longest of the cuts is about 75 feet in a NE-SW direction through hole #26. Pockets of ore were exposed intermittently throughout the length of the trench. In the bottom of the trench, at a depth of 10 feet, a continuous body of ore counting from 2.00% to 3.00% was exposed. The sand was well cemented so that the "backhoe" digger could not cut through it, but the grade of ore was such that it is definitely commercial even though the thickness was not determined. It has a lateral extent of over 30 feet and an exposed thickness of at least two feet, with perhaps the richest ore on the bottom of the trench. The auger drilling indicated mineralization down to a depth of 17 feet so the ore body could have a thickness of 9 feet.

The second trench was cut north from trench #1 through the line of 25' auger holes. However, the top sand was heavily stained with limonite and too well cemented for the digger to penetrate.

A third trench was cut north from hole #28 to a maximum depth of 11 feet. This trench exposed rich carnotite ore over a lateral distance of 20 feet with a thickness of 2 feet. The auger drilling indicates mineralization down to a depth of 28 feet in this area.

The trenching substantiates the existence of commercial ore beyond any reasonable doubt. The area was discovered by the original auger drilling as was another area on Colorado #4 which has not been drilled out as of this date. It seems that there can be no doubt as to the worthwhile merit of continuing the drilling program over the other claims in accordance with the requested exploration loan. In addition to our exploration, two other ore bodies have been found besides Kerr McGee's operations in the same area. One of these ore bodies is located on the next hill across a drainage from the Colorado #1 claim. The other is about two miles north of Savageton.

The type of occurrence as indicated by the trenching shows that ore bodies on the Colorado #1 claim are very similar to those mined by Kerr McGee. It is expected that we will start mining operations in about 10 days to two weeks. If you should like to inspect the operations, please feel that you are entirely welcome at any time.

Sincerely yours,

M. D. Quigley

MDQ:dh

cc: D.M.E.A. (2)
Jean E. J. Binyon
G. G. Travis
H. C. Price

August 19, 1955

COPY

Mr. George Travis
P. O. Box 1283
Grand Junction, Colorado

Re: Drilling Report on North Pumpkin Buttes, Campbell County, Wyoming

Dear George:

Since the last drilling report on June 27, 1955, 117 additional holes have been drilled in the North Pumpkin Buttes area. 57 of these holes were drilled in completing the annual assessment work required before July 1, 1955. 14 of the 57 holes were drilled on the Utah #1, 2, 3, and 4 claims in an attempt to expand the area where a little radioactivity had been indicated by the first drilling reported on June 27, 1955. No additional count was penetrated in the immediate area, so it was decided to delay further drilling on the four claims until the other two areas showing good count on the initial drilling were fully evaluated.

The remaining 60 holes were concentrated on Colorado #1 in drilling out the ore body in area "P" where nine holes had penetrated mineralization on the first stage of drilling. These holes were drilled on a 50-foot hexagonal spacing to outline the ore body and then nine additional holes were drilled on a 25-foot hexagonal spacing. The accompanying map shows the location of the holes and the number of feet of mineralization having a count of greater than .20% U_3O_8 as indicated by a "Universal" probe and counter.

The radiometric count indicates an ore body having dimensions of at least 300' x 300' x 10', but the relationship between chemical assay and the radiometric count is still an unknown factor. On July 25, 1955, 130 feet of coring was completed in attempting to recover a core for chemical analysis. Only one 4" core was recovered giving a chemical analysis of .33% U_3O_8 as shown by Sample #1 on the attached analysis chart (Table #1). The cuttings that were analyzed show no consistent relationship between radiometric readings and chemical assay. The holes were drilled with air and the cuttings collected at 1-foot intervals. It is suspected that the uranium mineralization occurs as sand grain coatings and cementing material. In air drilling much of this coating is taken off by abrasion and escapes as dust. In the auger cuttings, there seemed to be a fairly consistent relationship of "in situ" radiometric readings to surface sample readings

of three to one. Moreover, it is felt that many of the "in situ" readings may represent count resulting from the nearness of mineralization rather than from the actual penetration of that mineralization.

In order to remove any doubt as to the equilibrium state and percentage of mineralization, it is recommended that we channel cut the outlined body in two or more places so that the walls are completely exposed. In this manner, we can study the mineralization in place and ascertain its commercial importance.

The additional drilling accomplished so far substantiates the recommendation made in the report of June 27, 1955, that the extensive drilling program originally outlined be carried out to completion.

Sincerely yours,

/s/ M. D. Quigley

M. D. Quigley

MDQ:dh

Enclosures

165 S. W. Temple
P. O. Box 1888

CERTIFICATE OF ASSAY

BLACK & BEASON

Assayers and Chemists

Price Exploration Company

Salt Lake City, Utah, July 29, 1955

Assay Per Ton of 2000 Pounds

TABLE NO. 1

	Hole Number	Type Sample	Depth	Sample Count (Surface)	Radio Metric (In Situ)	Uranium as. (U_3O_8)	Vanadium
#1	F26/50/8	Core	10' - 12'	--	.80-1.00	0.33	0.15
#2	F26/50/8	Cuttings	14' - 15'	.35	.65	0.26	0.21
#3	F26/50/8	"	15' - 16'	.25	.30	0.15	0.06
#4	F21/20/6	"	29' - 30'	.25	.70	0.12	0.12
#5	F21/20/6	"	31' - 32'	.30	.60	0.07	0.04
[illegible]	F21/20/6	"	35' - 36'	.20	.30	0.03	0.02
#7	F21/20/6	"	25' - 26'	.06	.10	0.01	0.03
#8	F30/50/10	"	11' - 12'	.10	.30	0.02	0.05
#9	F26/25/3	"	10' - 11'	.15	.30	0.05	0.12
#10	F30/25/3	"	17' - 18'	.30	1.00	0.005	0.04
#11	F30/25/3	"	18' - 19'	.26	1.20	0.02	0.03
#12	F30/25/3	"	19' - 20'	.50	1.42	0.07	0.05
#13	F30/25/3	"	20' - 21'	.90	1.55	0.18	0.07
#14	F30/25/3	"	22' - 23'	.20	1.07	0.01	0.04

Charges $112.00

/s/ B. W. BEASON

COPY

June 27, 1955

Mr. George Travis
P. O. Box 1283
Grand Junction, Colorado

RE: Drilling Report on
North Pumpkin Buttes,
Campbell County, Wyoming

Dear George:

Ninety-seven (97) holes were drilled on our claims in the North Pumpkin Buttes area between May 23rd and June 6, 1955. A total of 2,510 feet of drilling was completed for an average of 25.9 feet per hole. Mineralization was penetrated in 15 of the holes giving a 15 per cent success ratio. The mineralization was found in three separate areas on 100-foot hexagonal spacing with a minimum of three holes per area showing mineralization, thus indicating possible "ore bodies" of at least 100-foot dimensions.

The holes drilled, their depths, mineralization, and lithology are tabulated below:

Hole Number	Probe Depth	Mineralization	Lithology	
"A"	27'	.04 - 10'	0 - 10'	Cy. Sh.
		.05 - 17'	10 - 15'	Br. Sd.
		.04 - 18'	15 - T.D.	Cy. Sh.
"B"	27'	No Count	0 - 5'	Br. Sd.
			5 - 25'	Cy. Br. Sh.
			25 - T.D.	Bl. Sh.
B-8	18'	.04 - 12'	0 - 14'	Cy. Br. Mic. Sd.
		.04 - 13'	14 - T.D.	Bl. Sh.
		.10 - 14'		
		.04 - 15'		
B-9	25'	No Count	0 - T.D.	Br. Mic. Sd.
B-10	23'	.10 - 4'	0 - 13'	Cy. Br. Mic. Sd.
		.12 - 5'	13 - 15'	Hd. Sil. Sd. & Lmy. Sh.
		.18 - 6'	15 - 24'	Dr. Ark. Sd.
		.16 - 7'	24 - T.D.	Bl. Sh.
		.22 - 8'		
		.26 - 9'		
		.30 - 10'		

Hole Number	Probe Depth	Mineralization	Lithology
		.40 - 11' .65 - 12' .70 - 13' .85 - 14' .85 - 15' .65 - 16' .70 - 17' .80 - 18' 2.10 - 19' 3.00 - 20' 1.20 - 21' .18 - 22'	
B-11	16'	No count	0 - 17' Br. Mic. Sd. 17' - T.D. Bl. Sh.
B-13	30'	No count	0 - 24' Gy. Br. Sh. 24 - T.D. Bl. Sh.
B-14	18'	No Count	0 - 15' Br. Mc. Sd. 15 - T.D. Bl. Sh.
B-15	39'	No Count	0 - 33' Br. Mic. Sd. 33 - T.D. Gy. & Bl. Sh./w/wtr. top Sh.
B-16	27'	.06 - 13' .07 - 14' .09 - 15' .08 - 16' .07 - 17' .10 - 18' .11 - 19' .10 - 20' .10 - 21' .20 - 22' .05 - 23' .03 - 24' .05 - 25'	0 - 21' Br. Mic. Sd. 21 - T.D. Gy. & Bl. Sh.
B-17	27'	.06 - 10' .10 - 11' .15 - 12' .18 - 13' .19 - 14' .25 - 15' .75 - 16' .30 - 17' .10 - 18'	0 - 19' Br. Mic. Sd. 19 - 27' Gy. Sh.
C-11	20'	No Count	0 - 5' Br. Sd. 5 - 15' Gy. Br. Sh. 15 - 20' Bl. Sh.

Hole Number	Probe Depth	Mineralization	Lithology	
C-12	22'	No Count	0 - 8'	Rd. Br. Sd.
			8 - 10'	Bl. & Gy. Sh.
			10 - 11'	Gy. Sd.
			11 - 15'	Gy. Sh.
			15 - 16'	Gy. Sd.
			16 - 21'	Gy. Sh.
			21 - T.D.	Bl. Gy. Sh.
C-13	29'	High Count on Surface	0 - 23'	Rd. Br. Sd. w/thin Sh. Stks.
		.02 - 0'		
		.04 - 1'	23 - 24'	Bl. Gy. Sh.
		.13 - 2'	24 - 25'	Cherty Lms.
		.09 - 3'	25 - T.D.	Bl. Gy. Sh.
		.05 - 4'		
		.03 - 5'		
		.05 - 6'		
		.13 - 7'		
		.05 - 8'		
		.03 - 10'		
C-14	29'	No Count	0 - 26'	Rd. Br. Sd.
			26 - T.D.	Bl. Gy. Sh.
D-6	28'	No Count	0 - 5'	Rd. Sd.
			5 - 15'	Gy. Br. Sh.
			15 - 18'	Bright Rd. Sh.
			18 - T.D.	Gy. Sh.
"F"	19'	No Count	0 - 8'	Rd. Sd.
			8 - T.D.	Gy. & Bl. Sh.
D-7	28'	No Count	0 - 10'	Rd. Sd.
			10 - 24'	Gy. & Rd. Br. Sh.
			24 - 25'	Br. Sd.
			25 - T.D.	Gy. Sh.
D-8	27'	No Count	0 - 15'	Gy. Br. Sh.
			15 - 16'	Buff Sd.
			16 - T.D.	Gy. Sh.
D-11	30'	No Count	0 - 6'	Rd. Sd.
			6 - 15'	Gy. Br. Sh.
			15 - 18'	Rd. Sd.
			18 - T.D.	Gy. Sh.
D-12	27'	No Count	0 - 24'	Rd. & Rd. Br. Sd.
			24 - T.D.	Gy. Br. Sh.
D-13	26'	No Count	0 - 15'	Gy. Br. Sh.
			15 - 16'	Buff Sd.
			16 - T.D.	Gy. Sh.

Hole Number	Probe Depth	Mineralization		Lithology	
E'-1	25'	No Count		0 - 21' 21 - T.D.	Br. Sd. Bl. Sh.
E'-2	20'	No Count		0 - 19' 19 - T.D.	Br. Sd. Gy. Sh.
E'-3	27'	No Count		0 - 24' 24' - T.D.	Mostly Br. Sd. w/some lt. gr. sh. Gy. Sh.
E' -4	24'	No Count		0 - 5' 5 - 11' 11 - 13' 13 - T.D.	Rd. Sd. Gy. to Br. Ark. Sd.w/bent. Mostly Rd. Br. Sh. Br. Cr. Sd.
F-1	28'	.03 - 10' .06 - 12' .13 - 13' .03 - 14'			Br. Sd. w/Gy. Sh. at T.D.
F-4	32'	No Count		0 - T.D.	Br. Sd.
F-7	26'	.04 - 7' .08 - 8' .04 - 9'		0 - 23' 23 - 26'	Br. Sd. w/thin Sh. Stks. Bl. Sh. w/Cherty Ls. at T.D.
F-10	25'	.05 - 10' .05 - 12' .10 - 13' .20 - 14' .22 - 15' .18 - 16' .20 - 17' .10 - 18' .05 - 20' .05 - 25'		Rd. Sd. w/Br. Mic Sd. and Bl. Sh. at T.D.	
F-13	32'	No Count		Br. Sd. w/thin Sh. Stks. T.D. in Cherty Ls.	
F-17	31'	.09 - 5' .10 - 6' .11 - 7' .12 - 8' .15 - 9' .17 - 10' .17 - 11' .20 - 12' .20 - 13' .18 - 14' .18 - 15' .20 - 16' .22 - 17'	.24 - 20' .26 - 21' .30 - 22' .30 - 23' .30 - 24' .40 - 25' .41 - 26' .34 - 27' .38 - 28' .52 - 29' .52 - 29' .50 - 30' .48 - 31'	0 - 31'	Lt. Tan Gy. Sd. w/Sh. Stks. Gy. Sh. at T.D.w/Cherty Ls.

Hole Number	Probe Depth	Mineralization		Lithology
F-17	31'	.22 - 19'		
F-20	26'	.08 - 5'	.56 - 18'	Br. to yellow sd. w/thin sh. stks.
		.12 - 7'	.53 - 19'	Cherty Ls. at T.D.
		.13 - 8'	.49 - 20'	
		.15 - 9'	.48 - 21'	
		.18 - 10'	.50 - 22'	
		.21 - 11'	.40 - 23'	
		.20 - 12'	.30 - 24'	
		.22 - 13'	.40 - 25'	
		.30 - 14'	.60 - 26'	
		.40 - 15'		
		.43 - 16'		
		.48 - 17'		
F-24'	21'	.05 - 3'	.32 - 14'	Gy. Mc. Sd. w/thin Sh. Stks.
		.07 - 4'	.43 - 15'	Cherty Ls. at T.D.
		.10 - 5'	.49 - 16'	
		.11 - 6'	.48 - 17'	
		.13 - 7'	.60 - 18'	
		.12 - 8'	.60 - 19'	
		.15 - 9'	.52 - 20'	
		.18 - 10'	.58 - 21'	
		.23 - 11'		
		.22 - 12'		
		.28 - 13'		
F-26	20'	.04 - 1'	.20 - 12'	Dk. Gy. Sd. w/thin Sh. Stks.
		.05 - 2'	.20 - 13'	Cherty Ls. at T. D.
		.09 - 3'	.25 - 14'	
		.10 - 4'	.30 - 15'	
		.20 - 5'	.35 - 16'	
		.22 - 6'	.45 - 17'	
		.30 - 7'	.35 - 18'	
		.28 - 8'	.40 - 19'	
		.20 - 9'	.50 - 20'	
		.25 - 10'		
		.20 - 11'		
G-5	30'	No Count		0 - 15' Br. Sd.
				15 - 28' Gy. Br. Sh.
				28 - T.D. Bl. Sh.
G-10	27'	No Count		0 - 21' Rd. to Br. Sdy. Sh.
				21 - T.D. Bl. Gy. Sh.
G-13	28'	No Count		0 - 23' Br. Sd. & Sh.
				23 - T.D. Bl. Gy. Sh.
I-8	29'	No Count		0 - 30' Gy. Br. Sh. w/thin Sd. Stks.
				30 - T.D. Bl. Sh.

Hole Depth	Probe Depth	Mineralization	Lithology	
I-10	27'	No Count	0 - 20'	Rd. Sd.
			20 - T.D.	Bl. Sh.
I-13	31'	No Count	0 - 27'	Gy. Br. Sh., No Sd.
			27 - T.D.	Bl. Sh.
I-15	23'	No Count	0 - 20'	Rd. Sd.
			20 - T.D	Bl. Sh.
I-18	29'	No Count	0 - 20'	Gy. Br. Sh.
			20 - 28'	Buff Sd.
			27 - 30'	Gy. Br. Sh.
			30 - T.D.	Bl. Gy. Sh.
I-20	23'	No Count	0 - 17'	Rd. Sd.
			17 - 18'	Bl. Sh.
			18 - 19'	Gy. Br. Sh.
			19 - T.D.	Bl. Sh.
I-23	23'	No Count	0 - 20'	Gy. Br. Sh.
			20 - T.D.	Bl. Gy. Sh.
I-25	32'	No Count	0 - 30'	Gy. Sh. No. Sd.
			30 - T.D.	Bl. Sh.
I-28	26'	No Count	0 - 25'	Gy. Br. Sh.
			25 - T.D.	Bl. Sh.
I-30	31'	No Count	0 - 10'	Gy. Sh.
			10 - 15'	Br. Sh.
			15 - 18'	Fine Buff Sd.
			18 - 28'	Gy. Sh. w/thin buff Sd. Stks.
			28 - T.D.	Bl. Gy. Sh.
K-2	12'	No Count	0 - T.D.	Gy. Sh.
K-3	21'	No Count	0 - 18'	Br. Sdy. Sh.
			18 - T.D.	Gy. Sh.
K-4	20'	No Count	0 - 16'	Br. Sd.
			16 - 20'	Gy. Sh.
K-6	24'	.05 - 15' .06 - 16'	0 - T.D.	Rd. to Br. Sh.
K-7	13'	.06 - 7' .06 - 9'	0 - T.D.	Rd. to Br. Sh.
K-8	8'	No Count	0 - T.D.	Red to Br. Shale

Hole Number	Probe Depth	Mineralization	Lithology
K-9	10'	No Count	0 - 6' Br. Sd. 6 - T.D. Br. Sh.
L-12	30'	No Count	Top buff Sdy. Sh. T.D. Gy. Br. Sh.
L-13	30'	No Count	All Gy. Sh.
L-14	31'	No Count	0 - 16' Gy. Sh. 16 - 19' Cherty Ls. 19 - 24' Bentonite 24 - T.D. Gy. Sh.
L-15	12'	No Count	0 - 6' Gy. Sd. 6 - T.D. Gy. Br. Sh.
L-16	12'	No Count	0 - 6' Br. Shly. Sd. 6 - 10' Br. Sh.
O-10	20'	No Count	0 - 19' Br. V.Shly. Sd. or Sdy. Sh. 19 0 T.D. Bl. Sh.
O - 4	30'	No Count	0 - T.D. Br. V. Shly. Sd.
O - 6	24'	No Count	0 - 21' Br. V. Shly. Sd. 21 - T.D. Gy. Sh.
O - 1	26'	No Count	Mostly Buff Sh.
O-12	27'	No Count	0 - 21' Br. Sd. 21 - T.D. Bl. Sh.
O-16	32'	No Count	Mostly Buff Sh. T.D. in Bl. Sh.
O-18	24'	No Count	0 - 18' Br. Sd. 18 - 20' Rd. Sh. 20 - T.D. Bl. Sh.
O-21	24'	No Count	0 - T.D. Br. Sd.
O-24	26'	No Count	0 - 15' Br. Sd. 15 - 18' Rd. Sh. 18 - 20' Bl. Sh. 20 - 22' Rd. Sh. 22 - T.D. Bl. Sh.
O-30	30'	No Count	0 - 16' Br. Lim. Sd. 16 - 17' Bl. Sh. 17 - 18' Rd. Sh. 18 - 20' Bl. Gy. Sh. 20 - 21' Rd. Sh. 21 - 24' Bl. Gy. Sh. 24 - T.D. V. Bl. Sh.

Hole Number	Probe Depth	Mineralization	Lithology	
S-11	24'	No Count	0 - 19' 19 - T.D.	Br. Lim. Sd. Bl. Sh.
S-12	21'	No Count	0 - 20' 20 - T.D.	Lim. Sd. Bl. Sh.
S-13	32'	No Count	0 - 25' 25 - T.D.	Buff Lim. Sd. Bl. Sh. w/1' Sd. 2' off T.D.
S-14	33'	No Count	0 - T.D.	Br. Lim. Sd.
T-7	36'	No Count	0 - T.D.	Br. Sd.
T-8	31'	No Count	0 - T.D.	Br. Sd.
T-9	35'	No Count	0 - 25' 25 - T.D.	Br. Sd. Dk. Gy. Sh.
T-10	35'	No Count	0 - T.D.	Dk. Gy. Sh.
T-11	39'	No Count	0 - T.D.	Br. Sd.
T-12	10'	No Count	0 - T.D.	Br. Sd.
T-13	30'	No Count	0 - 20' 20 - T.D.	Br. Sd. Gy. Sh.
T-14	27'	.07 - 10'	0 - 10' 10 - T.D.	Br. Sd. Gy. Sh.
V-2	23'	No Count	0 - T.D.	Gy. Sh.
V-5	22'	No Count	0 - T.D.	Dk. Gy. Sh.
V-6	31'	High Background up to .07	0 - T.D.	Br. Sd.
V-10	20'	No Count	0 - T.D.	Gy. Sh.
V-11	26'	.03 - 15' .20 - 16'	0 - T.D.	Br. & Gy. Sd.
V-13	30'	No Count	0 - 20' 20 - T.D.	Br. Sd. Dk. Mn. Sh.
V-14	31'	No Count	0 - T.D.	Br. Sd.
V-18	33'	.03 - 7'	0 - T.D.	Br. Sd.
V-19	33'	No Count	0 - T.D.	Br. Sd.
W-5	40'	No Count		Gy. Sh. all the way

Hole Number	Probe Depth	Mineralization	Lithology	
W-6	15'	.04 - 4' .15 - 5' .08 - 6' .10 - 7'	0 - 12' 12 - T.D.	Gy. Sd. Gy. Sh.
W-7	35'	No Count	0 - 20' 20 - T.D.	Br. Sd. Gy. Sh.
W-9	9'	No Count	0 - T.D.	Gy. Sh.
W-10	40'	.06 - 7' .13 - 8' .07 - 9'	0 - 18' 18 - T.D.	Gy. Sd. Gy. Sh.
W-11	25'	No Count	0 - 11' 11 - T.D.	Gy. Sd. Gy. Sh.

The hole numbers shown in the table correspond to the ones shown on the topographic and claim maps of our holdings in the North Pumokin Buttes area:

The mineralized holes in area B indicate an "ore body" having a diameter of at least 100 feet, even though the outlines are not yet fully definied. It must be realized that the quality of the uranium mineralization is based on probe readings and the results have not yet been checked against chemical assay. The probe readings are conservative so that it is felt that they can be used to indicate "commercial" mineralization. The holes were drilled with an auger drill but "up-hole" contamination does not account for the thickness of the mineralized zones. For instance, hole B-10 was drilled to .13 feet and probed. Then it was drilled to 26 feet and probed again. The "up hole" probed readings repeated themselves, even though some 3.00 per cent ore was drilled at 20 feet. It is felt that the present drilling has indicated an ore reserve of at least 1,000 tons in area B.

High radioactive count was found on the surface in the vicinity of the holes drilled in area C. The drill holes indicated poor sand development to the west, but good sand in the two most easterly holes. Fair count was found in C-13 at the surface, but it was not associated with the red sand, but with the soil mantle.

In general, area D possessed poor sand development with improvement to the south as indicated by hole D-12.

Area E' is located just east of Area E, along the long axis of the claim and 100 feet north and west of the east end center monument. Good sand was penetrated in each of the holes, but no color change was found.

Nine holes were drilled in area F and mineralization was found in seven of them. The amount of mineralization indicates a moderate grade ore body of 150 ft. x 250 ft. x 10 + ft. with the exact outlines still undefined. The mineralization is associated with the color change in the red arkosic sand to a gray-

brown micaceous sand with the ore bodies resting on a cherty limestone.

Insufficient drilling was done in area G to determine the trend of the better sand development.

Area I is a striking example of the very sudden and pronounced lithologic changes to be found in the same stratigraphic horizon. Little or no sand was found in holes I-4, 13, 18, 23, 28, 30, 25. However, in holes I-20, 15, 10, approximately 20 feet of red arkosic sand was penetrated without finding a color change. The area requires more drilling to the west of the holes drilled to determine the possible existence of the color change in the sand, which is associated with the uranium mineralization.

Areas K & L were found to be completely unfavorable in sand development and no further drilling is recommended for either area.

No mineralization was found in area O, even though there is an extensive area of nodular and "pod" mineralization exposed in sandstone boulders on the surface. Red-brown arkosic sand was found in the holes to the south, but no color changes were found. It is recommended that more drilling be done to the east in area O.

Brown limonite colored sand was penetrated in each of the holes drilled in area S, but no mineralization was found.

In area T, the brown sand was found to cap the topographic ridge. The sand was underlain by dark gray shale, which was never penetrated. No evidence of a color change laterally or vertically could be discerned from the cuttings. It is recommended that additional drilling be done at the south end of area T and in area R.

A slight amount of mineralization was found in V-11 and in W-6 and W-10. These three holes form a northeast-southwest trend, which needs to be explored further. High surface count is known to be present in the vicinity of W-18, so it is expected that additional drilling will extend the area of mineralization.

The three separate areas of mineralization found by the initial drilling in the North Pumpkin Buttes area is most encouraging. It proves that the area is mineralized at depth where color changes occur in the red and brown arkosic sand. The mineralization is of the disseminated type, which has led to commercial ore bodies elsewhere in the area. It is felt that a continued program of exploration drilling is well warranted, as well as an immediate drilling and coring program to outline and evaluate the three areas of mineralization found to date.

Lithologic changes are very rapid and there is frequently no surface evidence of the color change in the arkosic sand, which has proven to be of prime importance in locating commercial ore bodies. Therefore, it is necessary to conduct an extensive drilling program in those areas most favorable from surface evidence to locate additional deposits of uranium. Our original program of drilling is well warranted now on the basis of the recent work, keeping in mind

that the hole locations and areas may have to be altered from the original as the drilling information is accumulated.

Sincerely yours,

/s/ M. Darwin Quigley

M. Darwin Quigley

MDG:jb

COPY

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OCT 24 1955

CERTIFICATE OF ASSAY

BLACK & DEASON

Assayers and Chemists

Salt Lake City 12, Utah
August 23, 1955

Assay per ton of 2000 pounds

Price	Uranium (U_3O_8)
Trench #1 - CC #1 -- 10' to 11'	0.38
Pexco Trench #1 - CC #7 - 13' to 19'	0.17
Pexco Trench #1 - CC #9 -- 10' to 11'	0.21
Pexco Trench #1 - CC #10 -- 11' to 12'	0.81
Pexco Trench #1 - CC #11 -- 5' to 6'	0.68
Pexco Trench #1 - CC #11 -- 11' to 12'	0.10
Pexco Trench #1 - CC #12 -- 5' to 6'	0.20
Pexco Trench #3 - CC #1 -- 10' to 11'	0.002
Price #1 - CC #4 -- 4' to 5'	0.19
Price #1 - CC #5 -- 5' to 6'	0.22
Price Trench #1 - CC #4 -- 6' to 7'	1.93
Price Trench #1 - CC #3 -- 10' to 11'	1.70
Price Trench #1 - CC #4 -- 7' to 8'	0.66
Price Trench #1 - CC #3 -- 3-15' to 16'	0.16

/s/ B. W. Deason

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OCT 24 1955

COPY

PRICE EXPLORATION COMPANY

Box 1111

Bartlesville, Oklahoma

Geo. Travis - Manager
P. O. Box 1283
615 N. First St.
Grand Junction, Colo.

Sept. 1, 1955

Re: DMEA - 3835 (Uranium)
North Pumpkin Buttes,
Campbell Co., Wyo.

Mr. Norman P. Cuppels,
U. S. Geological Survey,
Hot Springs, S. Dakota.

Dear Mr. Cuppels:

We planned to trench three cuts, totaling 250' to a depth of 20', by Cat and Backhoe, on our Colo. No. 1, whereon we had found an ore body as indicated by radiometric probed holes. We were able to trench approximately half of what was planned, due to hard sand lenses. However, sufficient trench was cut which exposed ore in lenses, ranging from one to three feet in thickness. Our M. Darwin Quigley took representative samples at five foot intervals, and sent same to Black and Deason at Salt Lake, for chemical assaying. A signed copy of the assay is enclosed for your files.

It is our plan to move in equipment this month to strip the overburden and commence mining operations, on the Colorado No. 1 ore body.

In re to our DMEA application, if another field examination is required, we would appreciate your action, so that the outlined work can be commenced before adverse weather sets in.

Yours very truly,

Price Exploration Co.,
by

/s/ George Travis
Box 1283
Grand Junction, Colo.

10/10/55 gla

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

RECEIVED
OCT 10 1955

October 7, 1955

224 New Customhouse
Denver 2, Colorado

Mr. George Travis, Operating Manager
Price Exploration Company
615 North First Street
Grand Junction, Colorado

Re: Docket DMEA 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes Property, Campbell County, Wyoming

Dear Mr. Travis:

Enclosed are the original and six copies of Form MF-203, Owner's Consent to Lien. Please have the Owner's of all claims listed in Annex I which is attached to each copy of Form MF-203 sign and return to this office all copies.

Also enclosed are the original and six copies of Form MF-201, Subordination Agreement. All copies of the Subordination Agreement should be signed by Charles Christensen and John Christensen and returned to this office.

When we receive the signed copies of all of the attached forms, we will continue to process your application.

Very truly yours,

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

Enclosures

HMC:ab
cc: Sec. Opr. Comm. (2)
Docket 3835
Conners
Chron.

9/20/55 gla

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

RECEIVED
SEP 19 1955

September 15, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman of the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3835 (Uranium), Price Exploration Company, North Pumpkin Buttes claims, Campbell County, Wyoming

Your letter dated June 6, 1955 on the subject docket suggested that corrected Lease Agreement be requested of the applicant.

Enclosed are two copies of a letter from the applicant and 2 copies of an Affidavit stating that the designated claims by name are correct and the total number of claims is twenty-five.

In the event that a contract is recommended, we will forward the applicant Owner's Consent to Lien forms and Subordination Agreement forms in accordance with your request.

W. M. Traver

Enclosures

PRICE EXPLORATION COMPANY
HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

SEP 14 1955
BUREAU OF MINES
Denver, Colorado

September 13, 1955

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SEP 19 1955

Mr. Wm. M. Traver
D.M.E.A.
Department of Interior
Rm. 224, New Customs Bldg.
Denver, Colorado

Re: Docket No. DMEA-3855 (Uranium)
Pumpkin Buttes, Campbell County,
Wyoming

Dear Sir:

It has been brought to our attention that there is a discrepancy in the Lease Agreement covering the claims contained in the referenced application. Accordingly, we are sending three (3) copies of an Affidavit, clarifying the error.

Sincerely,

PRICE EXPLORATION COMPANY

By W. Donald Quigley
W. Donald Quigley

WDQ:jb

cc: Mr. Norman P. Cuppels - Encl.
P. O. Box 891
Hot Springs, S. D.

Mr. E. O. Binyon - Encl.
U. S. Bureau of Mines
School of Mines Campus
Rapid City, S. D.

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SEP 1 5 1955

A F F I D A V I T

Reference is made to the Lease Agreement made and entered into on the 30th day of November, 1954, between W. DON QUIGLEY et al (et al includes George Gaul and Robert N. Miller) and PRICE EXPLORATION COMPANY. Said Lease Agreement is filed in the County records of Campbell County, Wyoming.

It has been brought to my attention that there is a discrepancy between the number of claims designated by name and the numerical total mentioned. Twenty-five (25) claims are designated by name and only Twenty-four (24) claims are mentioned in the total number.

I hereby state that the designated claims by name are correct, and the total number of claims in said Agreement should be Twenty-five (25).

Signed this 12th day of September, 1955.

W. DONALD QUIGLEY et al

By: W. Donald Quigley
W. DONALD QUIGLEY

STATE OF UTAH)
: ss
COUNTY OF SALT LAKE)

On the 12th day of September, 1955, personally appeared before me, W. DONALD QUIGLEY, who, being by me duly sworn, did say that he executed the same.

Lynn Black
Notary

My commission expires:
October 28, 1958

Residing at Salt Lake City, Utah

PRICE EXPLORATION COMPANY
HAROLD C. PRICE—MANAGING PARTNER
BOX 1111
BARTLESVILLE, OKLAHOMA

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SEP 19 1955

GEO. TRAVIS—MANAGER
POST OFFICE BOX 1283
615 N. FIRST ST.
GRAND JUNCTION, COLORADO

DARWIN QUIGLEY & CHAS. SHANNON
GEOLOGISTS
602 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

September 15, 1955

Defense Minerals Exploration Administration
U. S. Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 3835

Gentlemen:

In regard to our DMEA application No. 3835 covering North Pumpkin Buttes, we herewith submit three contractors' bids for the proposed drilling and coring. Two of the bids are with contractors equipped to drill and core, while the third is limited to auger drilling. We would prefer using equipment for plug drilling and coring, but we will be guided by your field representatives' recommendation.

Yours very truly,

PRICE EXPLORATION COMPANY

George G. Travis

By: George G. Travis

GGT/ba

RECEIVED SEP 1 1 1955

LITTLE MO. MINING, INC.

P. O. BOX 545 UPTON, WYOMING PHONE 127

---- Authorization For Drilling ----

This authorization shall serve to constitute a contract between LITTLE MO. MINING, INC., and Price Exploration Co., Grand Junction, Colo., (hereinafter called Buyer). Said Buyer agrees to the costs and terms as shown below.
Box 1283

TYPE OF DRILLING		TYPE OF DRILL	Est. Footage to be Drilled	Price / foot Drilling	Price / hour Standby Time	Cost / Hour Lost Circulation, *Casing
Discovery	☐	Core Drill				
Prospecting and Development	☑	(a) Coring				
		(b) Plug Drilling				
Assessment	☐	Wagon Drill				
		Auger Drill	14,000	.50	5.00	—
Water Well	☐	Rotary Air				

*Casing left in hole at request of Buyer shall be charged to the Buyer at the cost of the casing to Little Mo. Mining. Inc.

Location of area to be drilled: North Pumkin Butte

Remarks: Drilling to start within 10 days after acceptence of this bid. weather and other factors beyond our control permitting. No hole to exceed 40' in depth at above prices.

Witness ..... BUYER ..... Date .....

LITTLE MO. MINING, INC.

Witness ..... By Lawrence Matteri (Authorized Agent) 5-7-55 (Date)

September 15, 1955

Price Exploration Company
Box 1283
Grand Junction, Colorado

Gentlemen:

Upon your Pumpkin Buttes drilling, we will bid $.75 per foot for plug bit drilling and $3.00 per foot for coring.

We would appreciate any work that we can do for you.

Very truly yours,

MARSH TRAVIS, DRILLING CONTRACTOR

Marsh Travis

By: Marsh Travis

MT/ba

202 RULE BUILDING
WICHITA, KANSAS

615 NORTH FIRST STREET
GRAND JUNCTION, COLORADO

DAWN DRILLING & MINING CO., INC.

September 13, 1955

RECEIVED
SEP 19 1955

Price Exploration Company
Box 1283
Grand Junction, Colorado

Dear Sirs:

Thank you for giving Dawn Drilling the opportunity to bid on your contract drilling needs in the Pumpkin Buttes area of Wyoming.

Our company uses Failing rotary drills that are equipped to drill with mud or air. We are confident that we can obtain good core recoveries for you in the Pumpkin Buttes area. Our drillers have had years of experience in drilling and coring every conceivable type of formation. If a sand has any cementing material, our drillers will get substantial core recoveries.

Our drilling price is $0.75 per foot, and our coring price for less than 10% of the total drilled footage is $2.75 per foot. Standby rates are $10.00 per hour. My company would like a guarantee of 9,000 feet of hole.

I can assure you that all drilling done by Dawn Drilling will meet with the approval of Price Exploration Company.

Very truly yours,

DAWN DRILLING & MINING CO.,INC.

Estel Avery

Estel Avery

August 22, 1955

Mr. Norman P. Cuppels
P. O. Box 891
Hot Springs, S. D.

Dear Mr. Cuppels:

In view of the inconsistency between probe readings and chemical assays from the area of mineralization found by auger drilling on Colorado #1, North Pumpkin Buttes, Wyoming, it was decided to channel cut the possible ore body. On August 18-20, three cuts were made by "cat" and "backhoe" digger. The longest of the cuts is about 75 feet in a NE-SW direction through hole #26. Pockets of ore were exposed intermittently throughout the length of the trench. In the bottom of the trench, at a depth of 10 feet, a continuous body of ore counting from 2.00% to 3.00% was exposed. The sand was well cemented so that the "backhoe" digger could not cut through it, but the grade of ore was such that it is definitely commercial even though the thickness was not determined. It has a lateral extent of over 30 feet and an exposed thickness of at least two feet, with perhaps the richest ore on the bottom of the trench. The auger drilling indicated mineralization down to a depth of 17 feet so the ore body could have a thickness of 9 feet.

The second trench was cut north from trench #1 through the line of 25' auger holes. However, the top sand was heavily stained with limonite and too well cemented for the digger to penetrate.

A third trench was cut north from hole #28 to a maximum depth of 11 feet. This trench exposed rich carnotite ore over a lateral distance of 20 feet with a thickness of 2 feet. The auger drilling indicates mineralization down to a depth of 28 feet in this area.

The trenching substantiates the existence of commercial ore beyond any reasonable doubt. The area was discovered by the original auger drilling as was another area on Colorado #4 which has not been drilled out as of this date. It seems that there can be no doubt as to the worthwhile merit of continuing the drilling program over the other claims in accordance with the requested exploration loan. In addition to our exploration, two other ore bodies have been found besides Kerr McGee's operations in the same area.

One of these ore bodies is located on the next hill across a drainage from the Colorado #1 claim. The other is about two miles north of Savageton.

The type of occurrence as indicated by the trenching shows that ore bodies on the Colorado #1 claim are very similar to those mined by Kerr McGee. It is expected that we will start mining operations in about 10 days to two weeks. If you should like to inspect the operations, please feel that you are entirely welcome at any time.

Sincerely yours,

M. D. Quigley

MDQ:dh

cc: D.M.E.A. (2)
Jean K.O.Binyon
G.G.Travis
H.C.Price

3835

August 19, 1955

RECEIVED
AUG 1955

Mr. George Travis
P. O. Box 1283
Grand Junction, Colorado

Re: Drilling Report on North Pumpkin Buttes, Campbell County, Wyoming

Dear George:

Since the last drilling report on June 27, 1955, 117 additional holes have been drilled in the North Pumpkin Buttes area. 57 of these holes were drilled in completing the annual assessment work required before July 1, 1955. 14 of the 57 holes were drilled on the Utah #1, 2, 3 and 4 claims in an attempt to expand the area where a little radioactivity had been indicated by the first drilling reported on June 27, 1955. No additional count was penetrated in the immediate area, so it was decided to delay further drilling on the four claims until the other two areas showing good count on the initial drilling were fully evaluated.

The remaining 60 holes were concentrated on Colorado #1 in drilling out the ore body in area "F" where nine holes had penetrated mineralization on the first stage of drilling. These holes were drilled on a 50 feet hexagonal spacing to outline the ore body and then nine additional holes were drilled on a 25 feet hexagonal spacing. The accompanying map shows the location of the holes and the number of feet of mineralization having a count of greater than .20% U_3O_8 as indicated by a "Universal" probe and counter.

The radiometric count indicates an ore body having dimensions of at least 300' x 300' x 10', but the relationship between chemical assay and the radiometric count is still an unknown factor. On July 25, 1955, 130 feet of coring was completed in attempting to recover a core for chemical analysis. Only one 4" core was recovered giving a chemical analysis of .33% U_3O_8 as shown by Sample #1 on the attached analysis chart (Table #1). The cuttings that were analyzed show no consistent relationship between radiometric readings and chemical assay. The holes were drilled with air and the cuttings collected at 1-foot intervals. It is suspected that the uranium mineralization occurs as sand grain coatings and cementing material. In air drilling much of this coating is taken off by abrasion and

escapes as dust. In the auger cuttings, there seemed to be a fairly consistent relationship of "in situ" radiometric readings to surface sample readings of three to one. Moreover, it is felt that many of the "in situ" readings may represent count resulting from the nearness of mineralization rather than from the actual penetration of that mineralization.

In order to remove any doubt as to the equilibrium state and percentage of mineralization, it is recommended that we channel cut the outlined body in two or more places so that the walls are completely exposed. In this manner, we can study the mineralization in place and ascertain its commercial importance.

The additional drilling accomplished so far substantiates the recommendation made in the report of June 27, 1955, that the extensive drilling program originally outlined be carried out to completion.

Sincerely yours,

M. D. Quigley

M. D. Quigley

MDQ:dh
Enclosures

COPY

165 S. W. Temple
P.O.Box 1888

CERTIFICATE OF ASSAY

Tel: 3] 2563

BLACK & DEASON

Assayers and Chemists

Price Exploration Company

Salt Lake City, Utah, July 29, 1955

Assay Per Ton of 2000 Pounds

TABLE NO. 1

	Hole Number	Type Sample	Depth	Sample Count (Surface)	Radio Metric (In Situ)	Uranium as. (U_3O_8)	Vanadium
#1	F26/50/8	Core	10' - 12'	- -	.80-1.00	0.33	0.15
#2	F26/50/8	Cuttings	14' - 15'	.35	.65	0.26	0.21
#3	F26/50/8	"	15' - 16'	.25	.30	0.15	0.06
#4	F21/20/6	"	29' - 30'	.25	.70	0.12	0.12
#5	F21/20/6	"	31' - 32"	.30	.60	0.07	0.04
#6	F/21/20/6	"	35' - 36'	.20	.30	0.03	0.02
#7	F21/20/6	"	25' - 26'	.06	.10	0.01	0.03
#8	F30/50/10	"	11' - 12'	.10	.30	0.02	0.05
#9	F26/25/3	"	10' - 11'	.15	.30	0.05	0.12
#10	F30/25/3	"	17' - 18'	.30	1.00	0.005	0.04
#11	F30/25/3	"	18' - 19'	.26	1.20	0.02	0.03
#12	F30/25/3	"	19' - 20'	.50	1.42	0.07	0.05
#13	F30/25/3	"	20' - 21'	.90	1.55	0.18	0.07
#14	F30/25/3	"	22' - 23'	.20	1.07	0.01	0.04

Charges $112.00

/s/ B. W. DEASON

June 27, 1955

Mr. George Travis
P. O. Box 1283
Grand Junction, Colorado

RE: Drilling Report on
North Pumpkin Buttes,
Campbell County, Wyoming

Dear George:

Ninety-seven (97) holes were drilled on our claims in the North Pumpkin Buttes area between May 23rd and June 6, 1955. A total of 2,510 feet of drilling was completed for an average of 25.9 feet per hole. Mineralization was penetrated in 15 of the holes giving a 15 per cent success ratio. The mineralization was found in three separate areas on 100-foot hexagonal spacing with a minimum of three holes per area showing mineralization, thus indicating possible "ore bodies" of at least 100-foot dimensions.

The holes drilled, their depths, mineralization, and lithology are tabulated below:

Hole Number	Probe Depth	Mineralization	Lithology	
"A"	27'	.04 - 10'	0 - 10'	Gy. Sh.
		.05 - 17'	10 - 15'	Br. Sd.
		.04 - 18'	15 - T.D.	Gy. Sh.
"B"	27'	No Count	0 - 5'	Br. Sd.
			5 - 25'	Gy. Br. Sh.
			25 - T.D.	Bl. Sh.
B-8	18'	.04 - 12'	0 - 14'	Gy. Br. Mic. Sd.
		.04 - 13'	14 - T.D.	Bl. Sh.
		.10 - 14'		
		.04 - 15'		
B-9	25'	No Count	0 - T.D.	Br. Mic. Sd.
B-10	23'	.10 - 4'	0 - 13'	Gy. Br. Mic. Sd.
		.12 - 5'	13 - 15'	Hd. Sil. Sd. & Lmy. Sh.
		.18 - 6'	15 - 24'	Br. Ark. Sd.
		.16 - 7'	24 - T.D.	Bl. Sh.
		.22 - 8'		
		.26 - 9'		
		.30 - 10'		

Hole Number	Probe Depth	Mineralization	Lithology	
		.40 - 11'		
		.65 - 12'		
		.70 - 13'		
		.85 - 14'		
		.85 - 15'		
		.65 - 16'		
		.70 - 17'		
		.80 - 18'		
		2.10 - 19'		
		3.00 - 20'		
		1.20 - 21'		
		.18 - 22'		
B-11	16'	No Count	0 - 17'	Br. Mic. Sd.
			17'- T.D.	Bl. Sh.
B-13	30'	No.Count	0 - 24'	Gy. Br. Sh.
			24 - T.D.	Bl. Sh.
B-14	18'	No Count	0 - 15'	Br. Mc. Sd.
			15 - T.D.	Bl. Sh.
B-15	39'	No Count	0 - 33'	Br. Mic. Sd.
			33 - T.D.	Gy. & Bl. Sh./w/ wtr. top Sh.
B-16	27'	.06 - 13'	0 - 21'	Br. Mic. Sd.
		.07 - 14'	21 - T.D.	Gy. & Bl. Sh.
		.09 - 15'		
		.08 - 16'		
		.07 - 17'		
		.10 - 18'		
		.11 - 19'		
		.10 - 20'		
		.10 - 21'		
		.20 - 22'		
		.05 - 23'		
		.03 - 24'		
		.05 - 25'		
B-17	27'	.06 - 10'	0 - 19'	Br. Mic. Sd.
		.10 - 11'	19 - 27'	Gy. Sh.
		.15 - 12'		
		.18 - 13'		
		.19 - 14'		
		.25 - 15'		
		.75 - 16'		
		.30 - 17'		
		.10 - 18'		
C-11	20'	No Count	0 - 5'	Br. Sd.
			5 - 15'	Gy. Br. Sh.
			15 - 20'	Bl. Sh.

Hole Number	Probe Depth	Mineralization	Lithology	
C-12	22'	No Count	0 - 8'	Rd. Br. Sd.
			8 - 10'	Bl. & Gy. Sh.
			10 - 11'	Gy. Sd.
			11 - 15'	Gy. Sh.
			15 - 16'	Gy. Sd.
			16 - 21'	Gy. Sh.
			21 - T.D.	Bl. Gy. Sh.
C-13	29'	High Count on Surface	0 - 23'	Rd. Br. Sd. w/thin Sh. Stks.
		.02 - 0'		
		.04 - 1'	23 - 24'	bl. Gy. Sh.
		.13 - 2'	24 - 25'	Cherty Lms.
		.09 - 3'	25 - T.D.	Bl. Gy. Sh.
		.05 - 4'		
		.03 - 5'		
		.05 - 6'		
		.13 - 7'		
		.05 - 8'		
		.03 - 10'		
C-14	29'	No Count	0 - 26'	Rd. Br. Sd.
			26 - T.D.	Bl. Gy. Sh.
D-6	28'	No Count	0 - 5'	Rd. Sd.
			5 - 15'	Gy. Br. Sh.
			15 - 18'	Bright Rd. Sh.
			18 - T.D.	Gy. Sh.
"F"	19'	No Count	0 - 8'	Rd. Sd.
			8 - T.D.	Gy. & Bl. Sh.
D-7	28'	No Count	0 - 10'	Rd. Sd.
			10 - 24'	Gy. & Rd. Br. Sh.
			24 - 25'	Br. Sd.
			25 - T.D.	Gy. Sh.
D-8	27'	No Count	0 - 15'	Gy. Br. Sh.
			15 - 16'	Buff Sd.
			16 - T.D.	Gy. Sh.
D-11	30'	No Count	0 - 6'	Rd. Sd.
			6 - 15'	Gy. Br. Sh.
			15 - 18'	Rd. Sd.
			18 - T.D.	Gy. Sh.
D-12	27'	No Count	0 - 24'	Rd. & Rd. Br. Sd.
			24 - T.D.	Gy. Br. Sh.
D-13	26'	No Count	0 - 15'	Gy. Br. Sh.
			15 - 16'	Buff Sd.
			16 - T.D.	Gy. Sh.

Hole Number	Probe Depth	Mineralization		Lithology	
E'-1	25'	No Count		0 - 21'	Br. Sd.
				21 - T.D.	Bl. Sh.
E'-2	20'	No Count		0 - 19'	Br. Sd.
				19 - T.D.	Gy. Sh.
E'-3	27'	No Count		0 - 24'	Mostly Br. Sd. w/ some lt. gr. sh.
				24' - T.D.	Gy. Sh.
E'-4	24'	No Count		0 - 5'	Rd. Sd.
				5 - 11'	Gy. to Br. Ark. Sd. w/ bent.
				11 - 13'	Mostly Rd. Br. Sh.
				13 - T.D.	Br. Cr. Sd.
F-1	28'	.03 - 10'			Br. Sd. w/Gy. Sh. at T.D.
		.06 - 12'			
		.13 - 13'			
		.03 - 14'			
F-4	32'	No Count		0 - T.D.	Br. Sd.
F-7	26'	.04 - 7'		0 - 23'	Br. Sd. w/thin Sh. Stks.
		.08 - 8'		23 - 26'	Bl. Sh. w/Cherty Ls. at T.D.
		.04 - 9'			
F-10	25'	.05 - 10'		Rd. Sd. w/Br. Mic Sd. and Bl. Sh. at T.D.	
		.05 - 12'			
		.10 - 13'			
		.20 - 14'			
		.22 - 15'			
		.18 - 16'			
		.20 - 17'			
		.10 - 18'			
		.05 - 20'			
		.05 - 25'			
F-13	32'	No Count		Br. Sd. w/thin Sh. Stks. T.D. in Cherty Ls.	
F-17	31'	.09 - 5'	.24 - 20'	0 - 31'	Lt. Tan Gy. Sd. w/Sh. Stks. Gy. Sh. at T.D.w/Cherty Ls.
		.10 - 6'	.26 - 21'		
		.11 - 7'	.30 - 22'		
		.12 - 8'	.30 - 23'		
		.15 - 9'	.30 - 24'		
		.17 - 10'	.40 - 25'		
		.17 - 11'	.41 - 26'		
		.20 - 12'	.34 - 27'		
		.20 - 13'	.38 - 28'		
		.18 - 14'	.52 - 29'		
		.18 - 15'	.52 - 29'		
		.20 - 16'	.50 - 30'		
		.22 - 17'	.48 - 31'		

Hole Number	Probe Depth	Mineralization		Lithology	
F-17	31'	.22 - 19'			
F-20	26'	.08 - 5'	.56 - 18'	Br. to yellow sd. w/thin sh. stks.	
		.12 - 7'	.53 - 19'	Cherty Ls. at T.D.	
		.13 - 8'	.49 - 20'		
		.15 - 9'	.48 - 21'		
		.18 - 10'	.50 - 22'		
		.21 - 11'	.40 - 23'		
		.20 - 12'	.30 - 24'		
		.22 - 13'	.40 - 25'		
		.30 - 14'	.60 - 26'		
		.40 - 15'			
		.43 - 16'			
		.48 - 17'			
F-24'	21'	.05 - 3'	.32 - 14'	Gy. Mic. Sd. w/thin Sh. Stks.	
		.07 - 4'	.43 - 15'	Cherty Ls. at T.D.	
		.10 - 5'	.49 - 16'		
		.11 - 6'	.48 - 17'		
		.13 - 7'	.60 - 18'		
		.12 - 8'	.60 - 19'		
		.15 - 9'	.52 - 20'		
		.18 - 10'	.58 - 21'		
		.23 - 11'			
		.22 - 12'			
		.28 - 13'			
F-26	20'	.04 - 1'	.20 - 12'	Dk. Gy. Sd. w/thin Sh. Stks.	
		.05 - 2'	.20 - 13'	Cherty Ls. at T.D.	
		.09 - 3'	.25 - 14'		
		.10 - 4'	.30 - 15'		
		.20 - 5'	.35 - 16'		
		.22 - 6'	.45 - 17'		
		.30 - 7'	.35 - 18'		
		.28 - 8'	.40 - 19'		
		.20 - 9'	.50 - 20'		
		.25 - 10'			
		.20 - 11'			
G-5	30'	No Count		0 - 15'	Br. Sd.
				15 - 28'	Gy. Br. Sh.
				28 - T.D.	Bl. Sh.
G-10	27'	No Count		0 - 21'	Rd. to Br. Sdy. Sh.
				21 - T.D.	Bl. Gy. Sh.
G-13	28'	No Count		0 - 23'	Br. Sd. & Sh.
				23 - T.D.	Bl. Gy. Sh.
I-8	29'	No Count		0 - 30'	Gy. Br. Sh. w/thin Sd. Stks.
				30 - T.D.	Bl. Sh.

Hole Number	Probe Depth	Mineralization	Lithology	
I-10	27'	No Count	0 - 20'	Rd. Sd.
			20 - T.D.	Bl. Sh.
I-13	31'	No Count	0 - 27'	Gy. Br. Sh., No Sd.
			27 - T.D.	Bl. Sh.
I-15	23'	No Count	0 - 20'	Rd. Sd.
			20 - T.D.	Bl. Sh.
I-18	29'	No Count	0 - 20'	Gy. Br. Sh.
			20 - 27'	Buff Sd.
			27 - 30'	Gy. Br. Sh.
			30 - T.D.	Bl. Gy. Sh.
I-20	23'	No Count	0 - 17'	Rd. Sd.
			17 - 18'	Bl. Sh.
			18 - 19'	Gy. Br. Sh.
			19 - T.D.	Bl. Sh.
I-23	23'	No Count	0 - 20'	Gy. Br. Sh.
			20 - T.D.	Bl. Gy. Sh.
I-25	32'	No Count	0 - 30'	Gy. Sh. No. Sd.
			30 - T.D.	Bl. Sh.
I-28	26'	No Count	0 - 25'	Gy. Br. Sh.
			25 - T.D.	Bl. Sh.
I-30	31'	No Count	0 - 10'	Gy. Sh.
			10 - 15'	Br. Sh.
			15 - 18'	Fine Buff Sd.
			18 - 28'	Gy. Sh. w/thin buff Sd. Stks.
			28 - T.D.	Bl. Gy. Sh.
K-2	12'	No Count	0 - T.D.	Gy. Sh.
K-3	21'	No Count	0 - 18'	Br. Sdy. Sh.
			18 - T.D.	Gy. Sh.
K-4	20'	No Count	0 - 16'	Br. Sd.
			16 - 20'	Gy. Sh.
K-6	24'	.05 - 15' .06 - 16'	0 - T.D.	Rd. to Br. Sh.
K-7	13'	.06 - 7' .06 - 9'	0 - T.D.	Rd. to Br. Sh.
K-8	8'	No Count	0 - T.D.	Red to Br. Shale

Hole Number	Probe Depth	Mineralization	Lithology
K-9	10'	No Count	0 - 6' Br. Sd. 6 - T.D. Br. Sh.
L-12	30'	No Count	Top buff Sdy. Sh. T.D. Gy. Br. Sh.
L-13	30'	No Count	All Gy. Sh.
L-14	31'	No Count	0 - 16' Gy. Sh. 16 - 19' Cherty Ls. 19 - 24' Bentonite 24 - T.D. Gy. Sh.
L-15	12'	No Count	0 - 6' Gy. Sd. 6 - T.D. Gy. Br. Sh.
L-16	12'	No Count	0 - 6' Br. Shly. Sd. 6 - 10' Br. Sh.
O-10	20'	No Count	0 - 19' Br. V.Shly. Sd. or Sdy. Sh. 19 - T.D. Bl. Sh.
O-4	30'	No Count	0 - T.D. Br. V. Shly. Sd.
O-6	24'	No Count	0 - 21' Br. V. Shly. Sd. 21 - T.D. Gy. Sh.
O-1	26'	No Count	Mostly Buff Sh.
O-12	27'	No Count	0 - 21' Br. Sd. 21 - T.D. Bl. Sh.
O-16	32'	No Count	Mostly Buff Sh. T.D. in Bl. Sh.
O-18	24'	No Count	0 - 18' Br. Sd. 18 - 20' Rd. Sh. 20 - T.D. Bl. Sh.
O-21	24'	No Count	0 - T.D. Br. Sd.
O-24	26'	No Count	0 - 15' Br. Sd. 15 - 18' Rd. Sh. 18 - 20' Bl. Sh. 20 - 22' Rd. Sh. 22 - T.D. Bl. Sh.
O-30	30'	No Count	0 - 16' Br. Lim. Sd. 16 - 17' Bl. Sh. 17 - 18' Rd. Sh. 18 - 20' Bl. Gy. Sh. 20 - 21' Rd. Sh. 21 - 24' Bl. Gy. Sh. 24 - T.D. V. Bl. Sh.

Hole Number	Probe Depth	Mineralization	Lithology	
S-11	24'	No Count	0 - 19' 19 - T.D.	Br. Lim. Sd. Bl. Sh.
S-12	21'	No Count	0 - 20' 20 - T.D.	Lim. Sd. Bl. Sh.
S-13	32'	No Count	0 - 25' 25 - T.D.	Buff Lim. Sd. Bl. Sh. w/1' Sd. 2' off T.D.
S-14	33	No Count	0 - T.D.	Br. Lim. Sd.
T-7	36'	No Count	0 - T.D.	Br. Sd.
T-8	31'	No Count	0 - T.D.	Br. Sd.
T-9	35'	No Count	0 - 25' 25 - T.D.	Br. Sd. Dk. Gy. Sh.
T-10	35'	No Count	0 - T.D.	Dk. Gy. Sh.
T-11	39'	No Count	0 - T.D.	Br. Sd.
T-12	10'	No Count	0 - T.D.	Br. Sd.
T-13	30'	No Count	0 - 20' 20 - T.D.	Br. Sd. Gy. Sh.
T-14	27'	.07 - 10'	0 - 10' 10 - T.D.	Br. Sd. Gy. Sh.
V-2	23'	No Count	0 - T.D.	Gy. Sh.
V-5	22'	No Count	0 - T.D.	Dk. Gy. Sh.
V-6	31'	High Background up to .07	0 - T.d.	Br. Sd.
V-10	20'	No Count	0 - T.D.	Gy. Sh.
V-11	26'	.05 - 15' .20 - 16'	0 - T.D.	Br. & Gy. Sd.
V-13	30'	No Count	0 - 20' 20 - T.D.	Br. Sd. Bk. Mn. Sh.
V-14	31'	No Count	0 - T.D.	Br. Sd.
V-18	33'	.03 - 7'	0 - T.D.	Br. Sd.
V-19	33'	No Count	0 - T.D.	Br. Sd.
W-5	40'	No Count		Gy. Sh. all the way

Hole Number	Probe Depth	Mineralization	Lithology
W-6	15'	.04 - 4' .15 - 5' .08 - 6' .10 - 7'	0 - 12' Gy. Sd. 12 - T.D. Gy. Sh.
W-7	35'	No Count	0 - 20' Br. Sd. 20 - T.D. Gy. Sh.
W-9	9'	No Count	0 - T.D. Gy. Sh.
W-10	40'	.06 - 7' .13 - 8' .07 - 9'	0 - 18' Gy. Sd. 18 - T.D. Gy. Sh.
W-11	25'	No Count	0 - 11' Gy. Sd. 11 - T.D. Gy. Sh.

The hole numbers shown in the table correspond to the ones shown on the topographic and claim maps of our holdings in the North Pumpkin Buttes area:

The mineralized holes in area B indicate an "ore body" having a diameter of at least 100 feet, even though the outlines are not yet fully defined. It must be realized that the quality of the uranium mineralization is based on probe readings and the results have not yet been checked against chemical assay. The probe readings are conservative so that it is felt that they can be used to indicate "commercial" mineralization. The holes were drilled with an auger drill but "up-hole" contamination does not account for the thickness of the mineralized zones. For instance, hole B-10 was drilled to .13 feet and probed. Then it was drilled to 26 feet and probed again. The "up hole" probed readings repeated themselves, even though some 3.00 per cent ore was drilled at 20 feet. It is felt that the present drilling has indicated an ore reserve of at least 1,000 tons in area B.

High radioactive count was found on the surface in the vicinity of the holes drilled in area C. The drill holes indicated poor sand development to the west, but good sand in the two most easterly holes. Fair count was found in C-13 at the surface, but it was not associated with the red sand, but with the soil mantle.

In general, area D possessed poor sand development with improvement to the south as indicated by hole D-12.

Area E' is located just east of Area E, along the long axis of the claim and 100 feet north and west of the east end center monument. Good sand was penetrated in each of the holes, but no color change was found.

Nine holes were drilled in area F and mineralization was found in seven of them. The amount of mineralization indicates a moderate grade ore body of 150 ft. x 250 ft. x 10 + ft. with the exact outlines still undefined. The mineralization is associated with the color change in the red arkosic sand to a gray-

brown micaceous sand with the ore bodies resting on a cherty limestone.

Insufficient drilling was done in area G to determine the trend of the better sand development.

Area I is a striking example of the very sudden and pronounced lithologic changes to be found in the same stratigraphic horizon. Little or no sand was found in holes I-4, 13, 18, 23, 28, 30, 25. However, in holes I-20, 15, 10, approximately 20 feet of red arkosic sand was penetrated without finding a color change. The area requires more drilling to the west of the holes drilled to determine the possible existence of the color change in the sand, which is associated with the uranium mineralization.

Areas K & L were found to be completely unfavorable in sand development and no further drilling is recommended for either area.

No mineralization was found in area O, even though there is an extensive area of nodular and "pod" mineralization exposed in sandstone boulders on the surface. Red-brown arkosic sand was found in the holes to the south, but no color changes were found. It is recommended that more drilling be done to the east in area O.

Brown limonite colored sand was penetrated in each of the holes drilled in area S, but no mineralization was found.

In area T, the brown sand was found to cap the topographic ridge. The sand was underlain by dark gray shale, which was never penetrated. No evidence of a color change laterally or vertically could be discerned from the cuttings. It is recommended that additional drilling be done at the south end of area T and in area R.

A slight amount of mineralization was found in V-11 and in W-6 and W-10. These three holes form a northeast-southwest trend, which needs to be explored further. High surface count is known to be present in the vicinity of W-18, so it is expected that additional drilling will extend the area of mineralization.

The three separate areas of mineralization found by the initial drilling in the North Pumpkin Buttes area is most encouraging. It proves that the area is mineralized at depth where color changes occur in the red and brown arkosic sand. The mineralization is of the disseminated type, which has led to commercial ore bodies elsewhere in the area. It is felt that a continued program of exploration drilling is well warranted, as well as an immediate drilling and coring program to outline and evaluate the three areas of mineralization found to date.

Lithologic changes are very rapid and there is frequently no surface evidence of the color change in the arkosic sand, which has proven to be of prime importance in locating commercial ore bodies. Therefore, it is necessary to conduct an extensive drilling program in those areas most favorable from surface evidence to locate additional deposits of uranium. Our original program of drilling is well warranted now on the basis of the recent work, keeping in mind

that the hole locations and areas may have to be altered from the original as the drilling information is accumulated.

Sincerely yours,

M Darwin Quigley

M. Darwin Quigley

MDQ:jb

Surname 700

6-6-55 Ching
Am. Ellis
Stephens
Selfridge
Kjelmson

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

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

JUN - 6 1955

Re: Docket No. DMEA-3635 (Uranium)
Price Exploration Company
North Pumpkin Buttes Claims
Campbell County, Wyoming

Dear Mr. Traver:

The subject application is being referred to you for investigation, a field examination if warranted, and recommendation.

Enclosed are two copies each of comments and recommendations dated May 27, 1955, by R. D. Trace and John E. Crawford of the Uranium Commodity Committee.

Please note on the second page of the Lease Agreement (Exhibit 4-B) that reference is made to "a total of twenty-four (24) claims or parts of claims," whereas the names and locations of 25 claims are given in the preceding recitation. It is suggested that a corrected Lease Agreement be requested of the Applicant in the event the Field Team recommends a contract. Also, in such event, a new Consent to Lien on our latest form and a Subordination Agreement executed by Charles and John Christensen would be required.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (THK)
Member, Geological Survey

MChing:am
6-1-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Ching

R.C.S.

Surname 700

Ching
Ellis
Hedges
Kiilsgaard
Selfridge
Fellman

6-6-55
CM

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

JUN - 6 1955

Price Exploration Company
615 North First Street
Grand Junction, Colorado

Re: Docket No. DMEA-3835 (Uranium)
North Pumpkin Buttes Claims
Campbell County, Wyoming

Gentlemen:

The application for assistance in exploring the subject property in Campbell County, Wyoming, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region III at the following address:

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

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing:am
6-1-55
cc to: Admr. Reading File
Docket

Messrs. ~~J.E.Crawford,Rm.3641~~
~~T.W.Kiilsgaard,Rm.5224~~
~~J.O.Hosted,Rm.3210,GSA~~
Code 700
Mr. Ching
DMEA Field Team, Region III(2)

R.C.J.

5/31/55

IN REPLY REFER TO:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1955

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

May 27, 1955

Re: DMEA-3835
Price Exploration Co.
North Pumpkin Buttes
Claims
Campbell Co., Wyo.
$24,708.50 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant proposes to drill 493 plug and core holes, all 40 feet deep, on 100-foot centers. The targets are small high grade concretionary mass or lower grade but larger disseminated deposits of uranium in sandstones of the Wasatch formation.

As the Pumpkin Buttes area is relatively new, I don't know how to evaluate its reserve potential. The Survey has worked in the area since its discovery in late 1951. The latest information available to me is Geol. Survey Circular 338, dated 1954, but no mines had been developed at that time.

As high-grade mineralization occurs on the applicant's property, I recommend that the application be referred to the Field Team.

Incidentally, I understand that primary mineralization (uraninite) was found this last winter.

R. D. Trace

R. D. Trace

5/27/55 gla

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

Defense Minerals Administration
RECEIVED
MAY 27 1955

May 27, 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: Application for assistance, DMEA Docket 3835, Price Exploration Company, North Pumpkin Buttes Claims, Campbell County, Wyoming

I have reviewed the attached application for assistance, Price Exploration Company, DMEA Docket 3835, North Pumpkin Buttes Claims, Campbell County, Wyoming; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The application of the Price Exploration Company should be referred to the Field Team for study and possible examination of the property. The Field Team should consult with C. C. Towle, Atomic Energy Commission, Denver, Colorado, to determine what information the Atomic Energy Commission may have on the property and the surrounding area.

The Field Team should note that results of drilling the 27 holes by the Price Exploration Company for assessment work are not adequately described in the application. The abundant surface mineralization mentioned in the application is not defined with reference to extent and grade of the occurrences.

John E. Crawford
John E. Crawford

Attachment

May 25, 1955

Price Exploration Company
615 North First Street
Grand Junction, Colorado

Subject: DMEA 3835
Re: Exploration Assistance
North Pumpkin Buttes Claims

Gentlemen:

The receipt of your application dated May 16, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3835 and referred to the Rare and Miscellaneous Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

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

RECEIVED
JUN 15 1955

224 New Customhouse
Denver 2, Colorado

June 10, 1955

Memorandum

To: E. O. Binyon W/Brochure
N. P. Cuppels

From: DMEA Field Team, Region III

Subject: DMEA-3835 (Uranium), Price Exploration Company (North Pumpkin Buttes claims), Campbell County, Wyoming

Enclosed are copies of the subject application for a loan in the amount of $24,408.50, its referral by the Chairman of the Operating Committee, and memoranda to E. W. Ellis from John E. Crawford, USBM, and R. D. Trace, USGS, members of the Uranium Commodity Committee.

The application is transmitted for a field investigation and suitable covering reports after discussion with the Hot Springs sub-office of the AEC. It is suggested that due to shallow depths possibly some other type of drilling than coring might be applicable. Apparently it will be necessary to make arrangements for the examination with the applicant's Grand Junction office.

Your attention is called to a discrepancy noted by the Chairman of the Operating Committee in the number of claims between the Lease Agreement and property rights legal description on page 1 of the application. This should be clarified during your examination. Also advise the applicant's representative that new form Owner's Consent to Lien, which will be furnished by this office, will be required in the event you recommend a contract.

WMT:sr

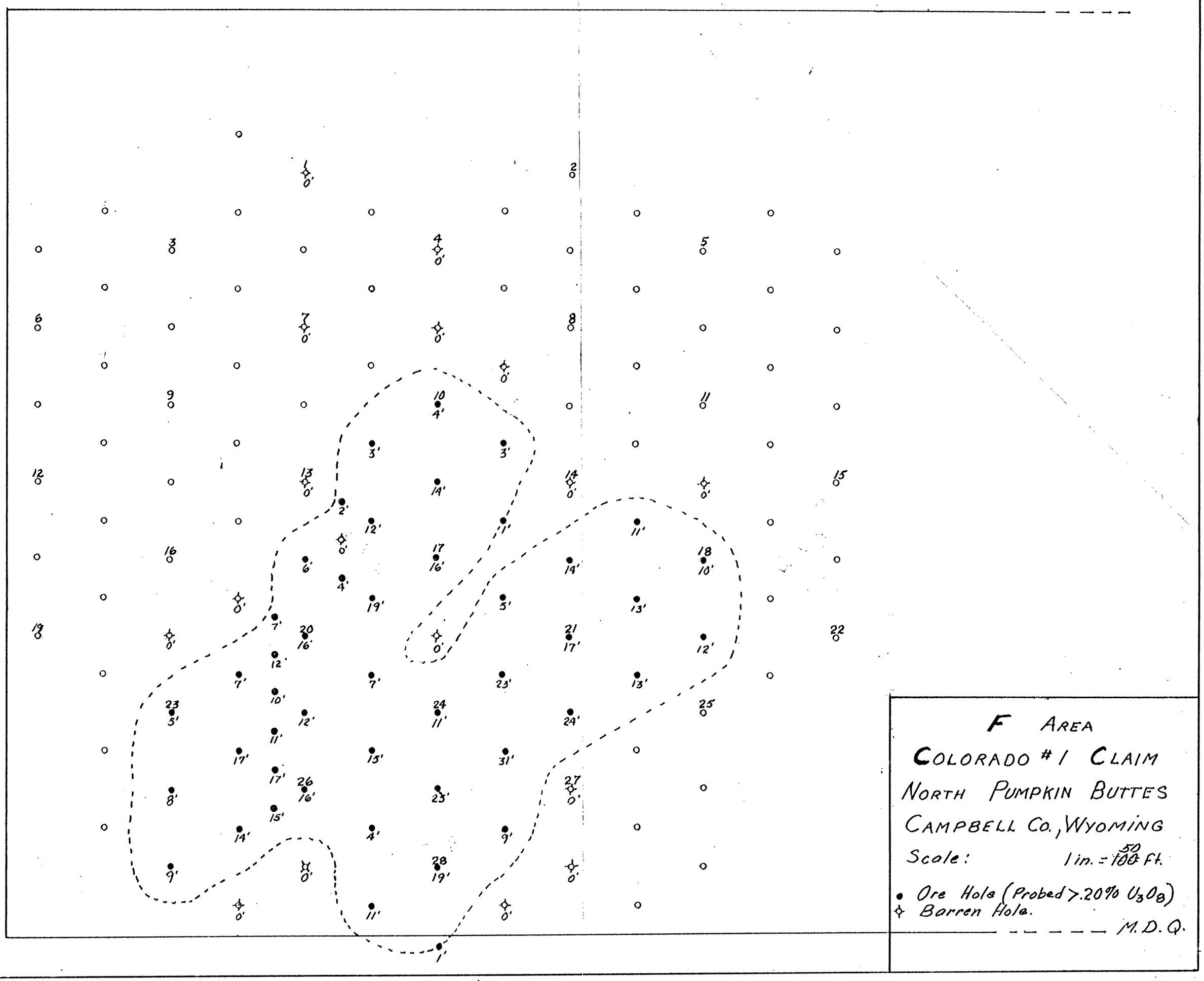
DMEA Field Team, Region III

cc Sec. Op. Comm. (2)
Subject
Harshman w/enc
Chron

W. M. Traver
W. M. Traver

E. N. Harshman
E. N. Harshman

Enclosures


F AREA
COLORADO #1 CLAIM
NORTH PUMPKIN BUTTES
CAMPBELL CO., WYOMING
Scale: 1 in. = 50 ft.
• Ore Hole (Probed >.20% U_3O_8)
✧ Barren Hole.
M.D.Q.

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

FINAL REPORT
DMEA - 3835
CONTRACT Idm 908

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Geology and topography from USGS map MF-98 1957

GEOLOGIC MAP OF

Figure 5 - NORTH PUMPKIN BUTTES AREA, CAMPBELL COUNTY, WYOMING
PRICE EXPLORATION COMPANY - DMEA-3835, CONTRACT Idm-E908

500 0 500 1000 1500 feet

Contour interval, 20 feet

Shary 58

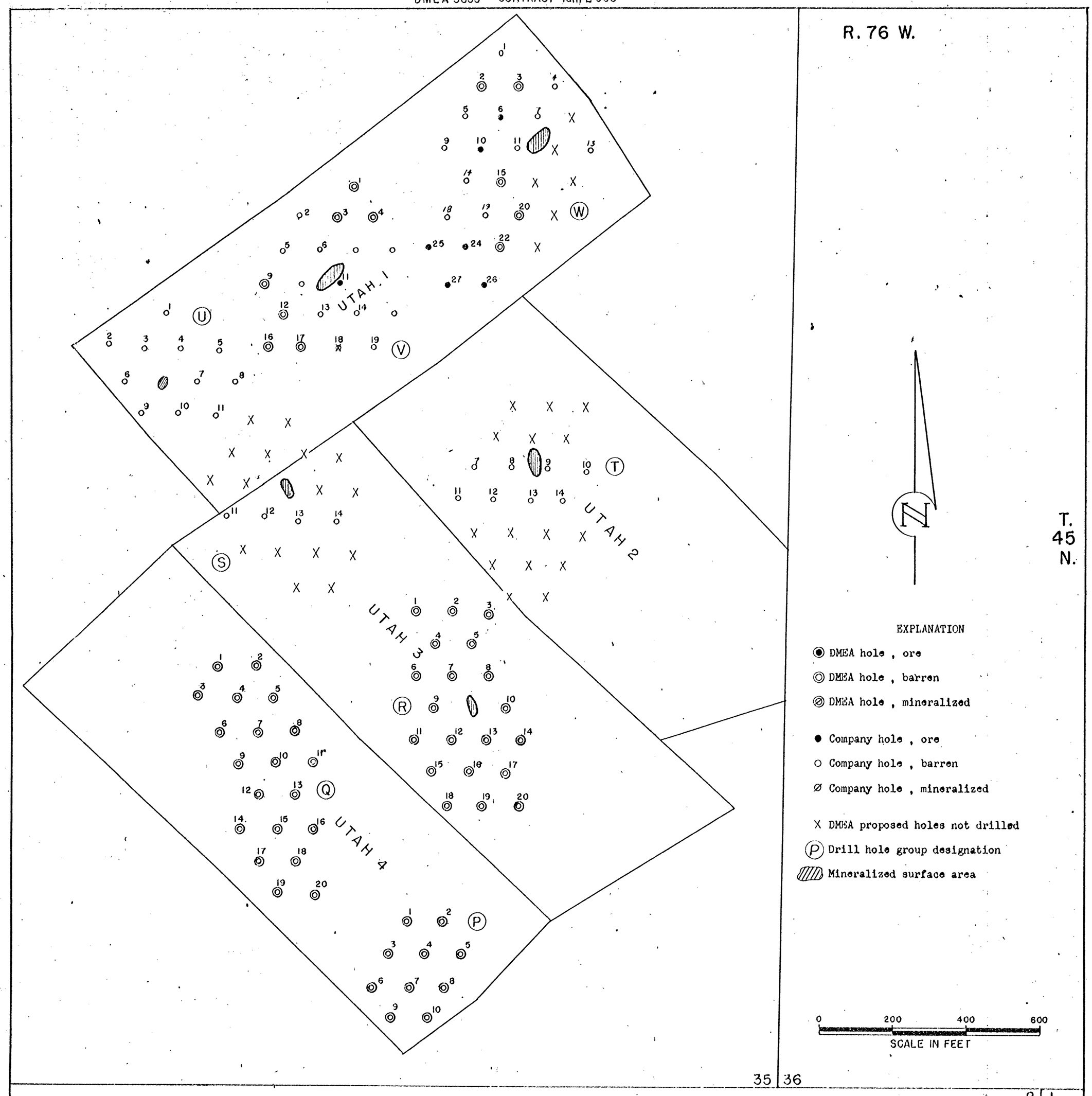


FIGURE 3 - CLAIM MAP WITH DRILL HOLES, PRICE EXPLORATION COMPANY, NORTH PUMPKIN BUTTES, CAMPBELL COUNTY, WYO. T.45 N., R.76 W. DMEA 3835, CONTRACT Idm-E908

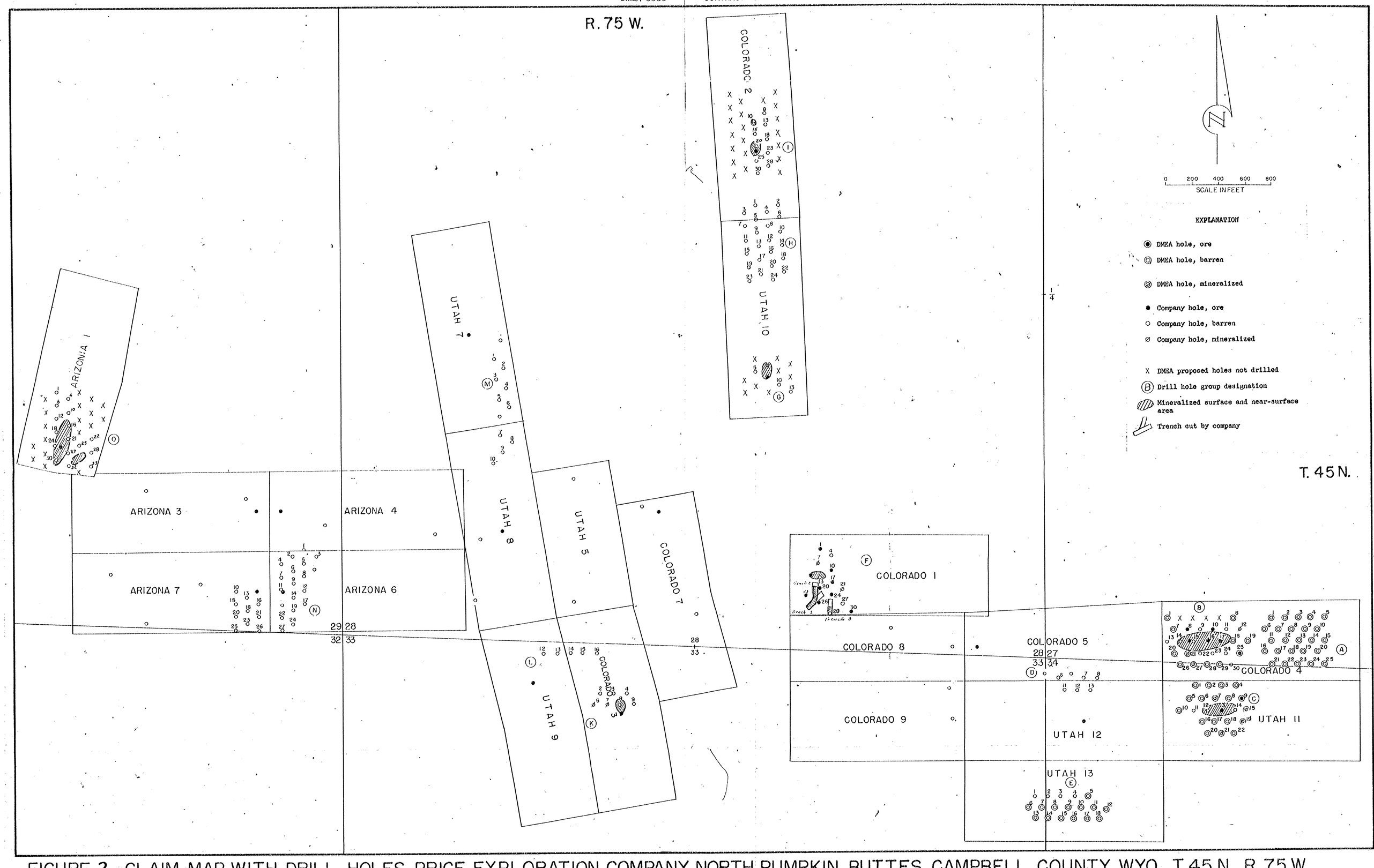
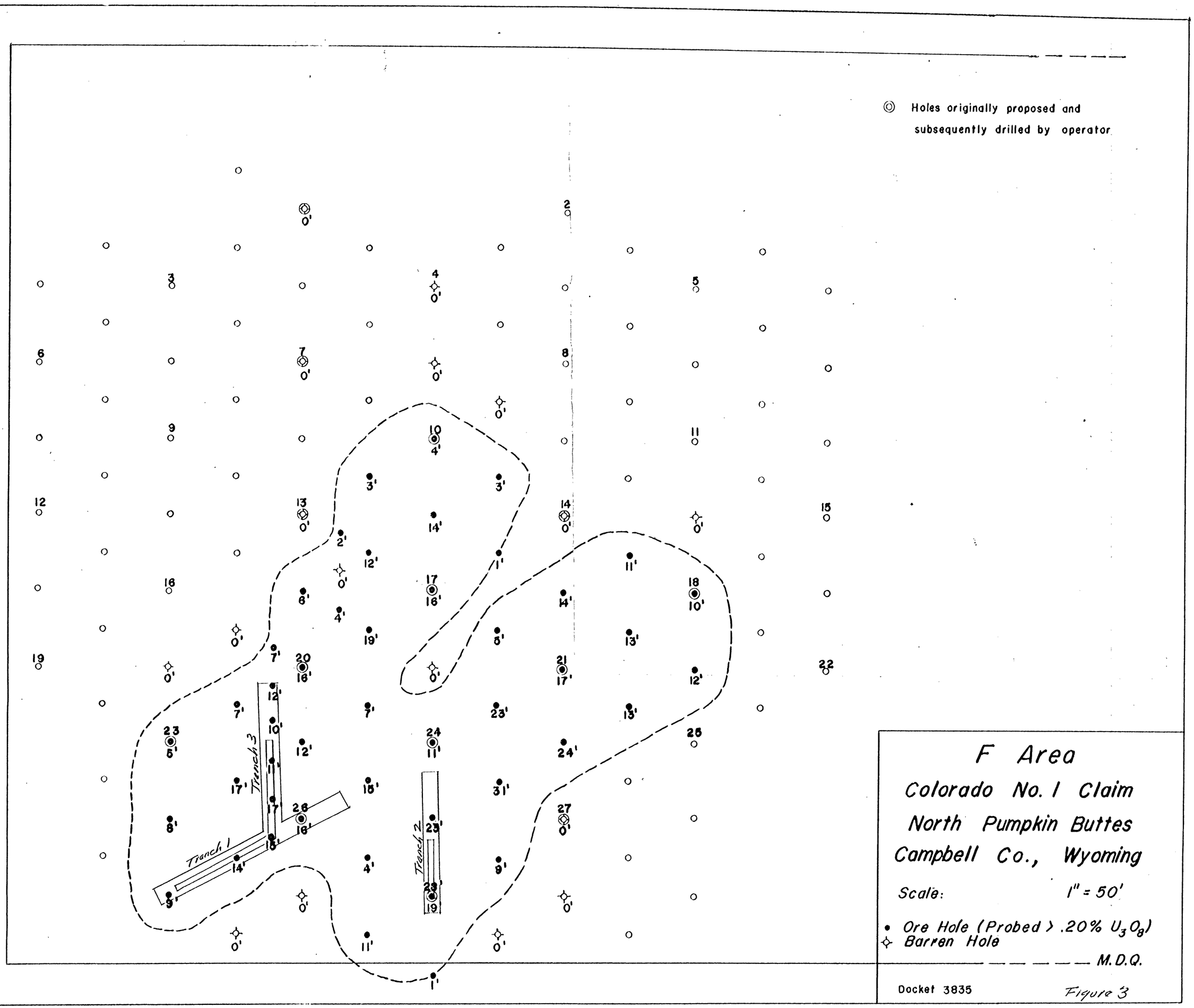
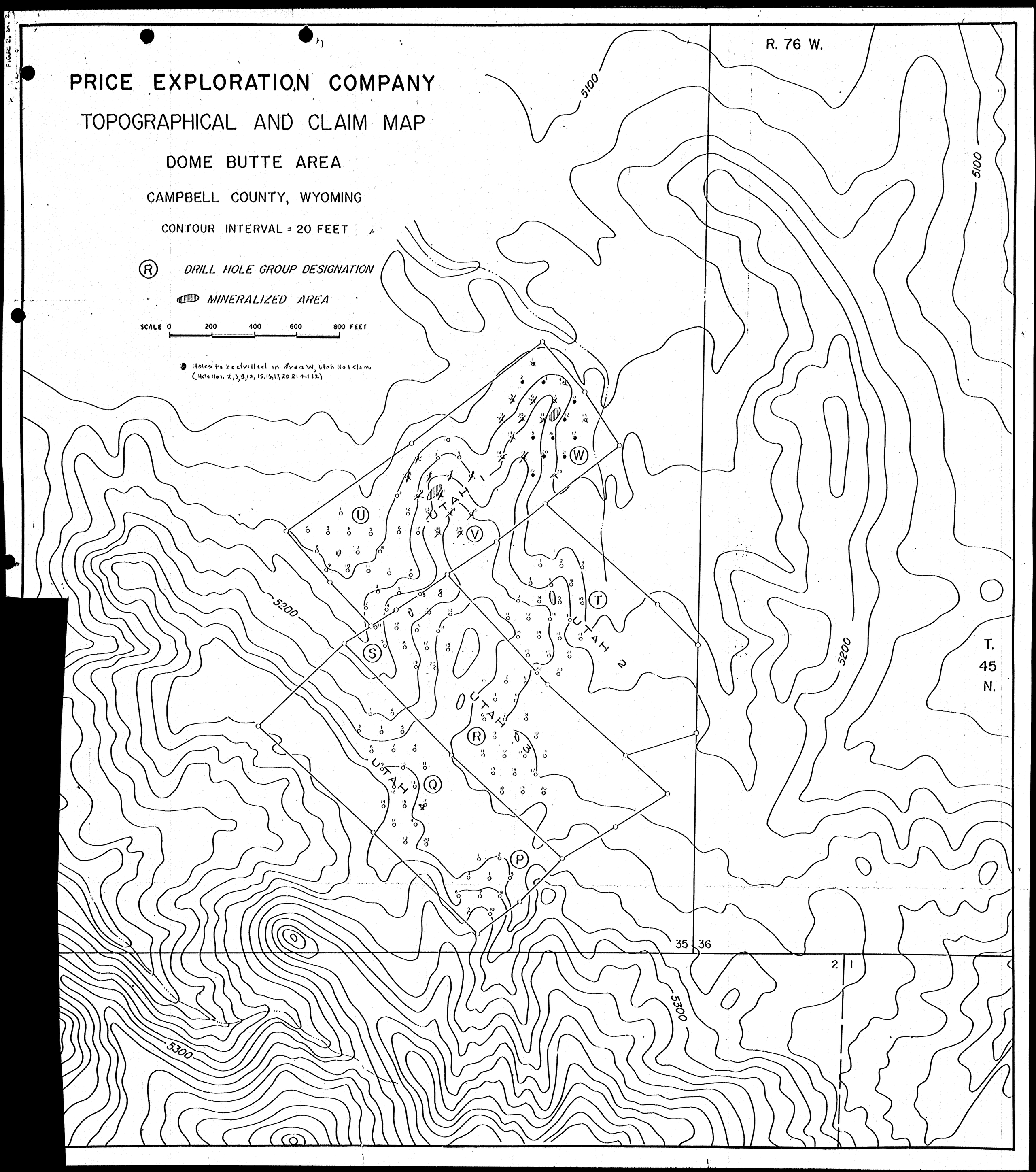
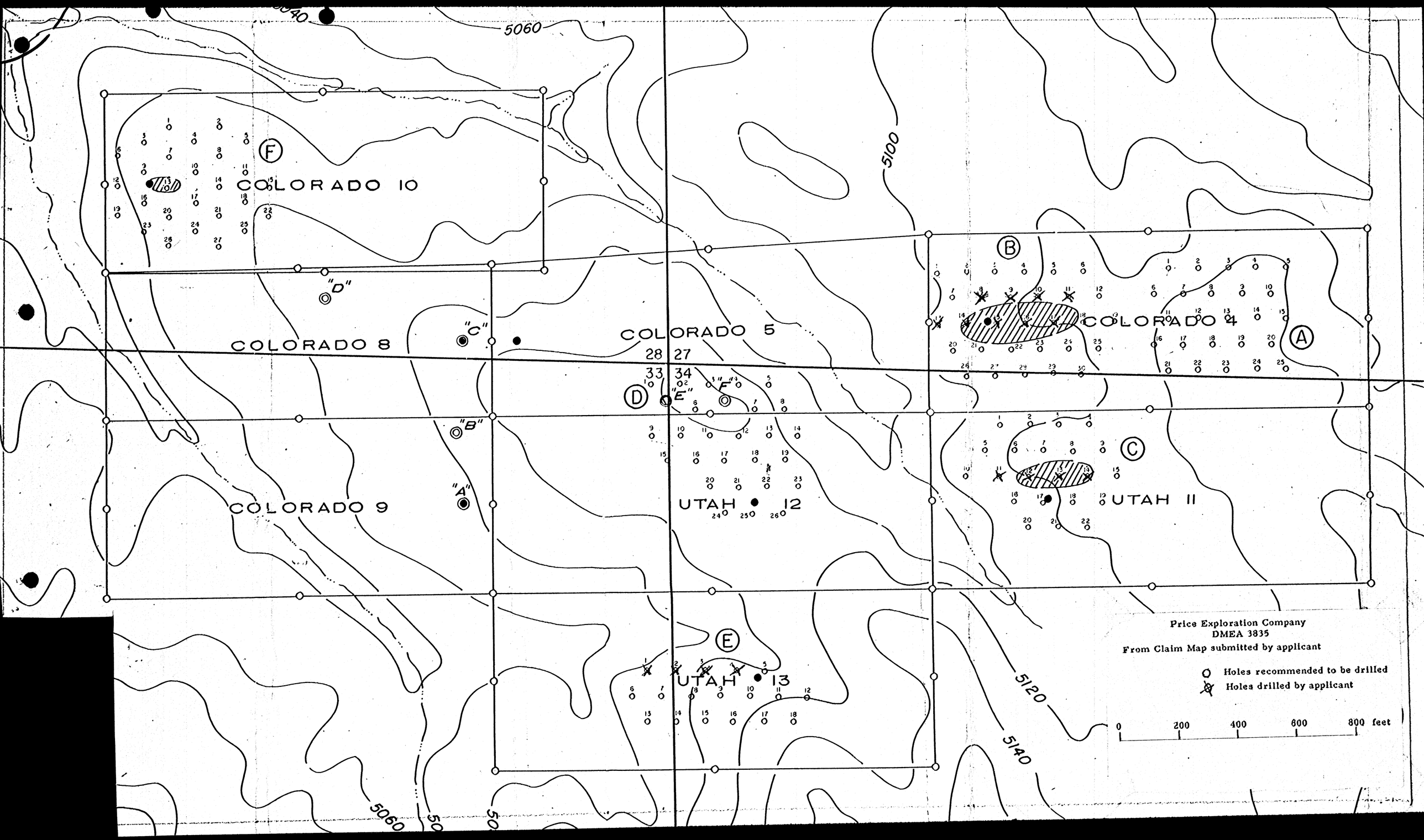


FIGURE 2 -CLAIM MAP WITH DRILL HOLES, PRICE EXPLORATION COMPANY, NORTH PUMPKIN BUTTES, CAMPBELL COUNTY, WYO., T. 45 N., R. 75 W.
DMEA 3835, CONTRACT Idm-E908

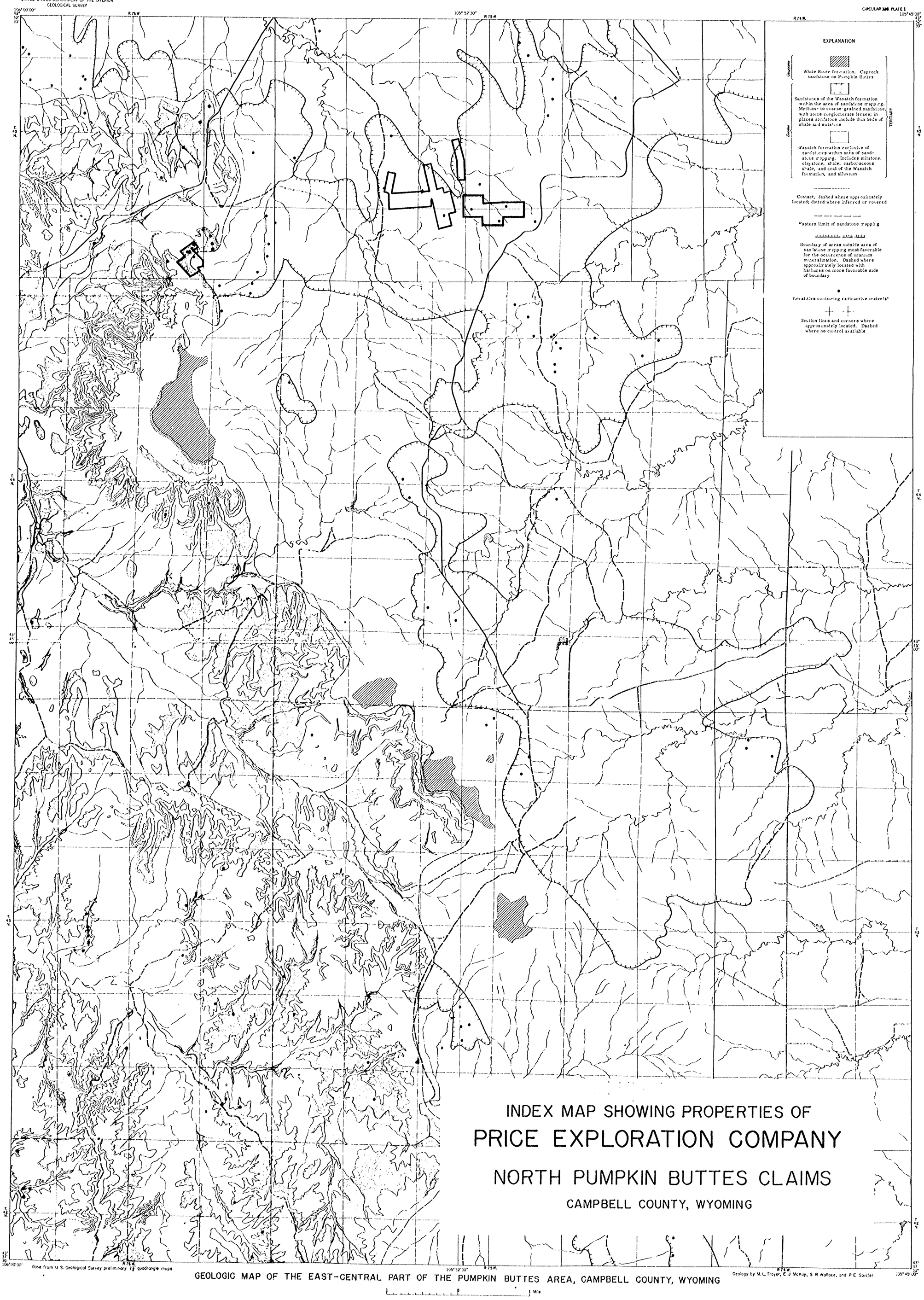

Holes originally proposed and subsequently drilled by operator
Trench 1
Trench 2
Trench 3
F Area
Colorado No. 1 Claim
North Pumpkin Buttes
Campbell Co., Wyoming
Scale: 1" = 50'
• Ore Hole (Probed > .20% U_3O_8)
Barren Hole
M.D.Q.
Docket 3835
Figure 3


PRICE EXPLORATION COMPANY
TOPOGRAPHICAL AND CLAIM MAP
DOME BUTTE AREA
CAMPBELL COUNTY, WYOMING
CONTOUR INTERVAL = 20 FEET
DRILL HOLE GROUP DESIGNATION
MINERALIZED AREA
SCALE 0 200 400 600 800 FEET
Holes to be drilled in Area W, Utah No 1 claim.
(Hole Nos. 2,5,8,12, 15,16,17,20 21 and 22)
R. 76 W.
T. 45 N.
5100
5200
5300
UTAH 1
UTAH 2
UTAH 3
UTAH 4
U
V
W
T
S
R
Q
P
35
36
2
1


5060
5100
5120
5140
COLORADO 10
COLORADO 8
COLORADO 5
COLORADO 4
COLORADO 9
UTAH 12
UTAH 11
UTAH 13
28 27
33 34
"A"
"B"
"C"
"D"
"E"
"F"
A
B
C
D
E
F
Price Exploration Company
DMEA 3835
From Claim Map submitted by applicant
Holes recommended to be drilled
Holes drilled by applicant
0 200 400 600 800 feet

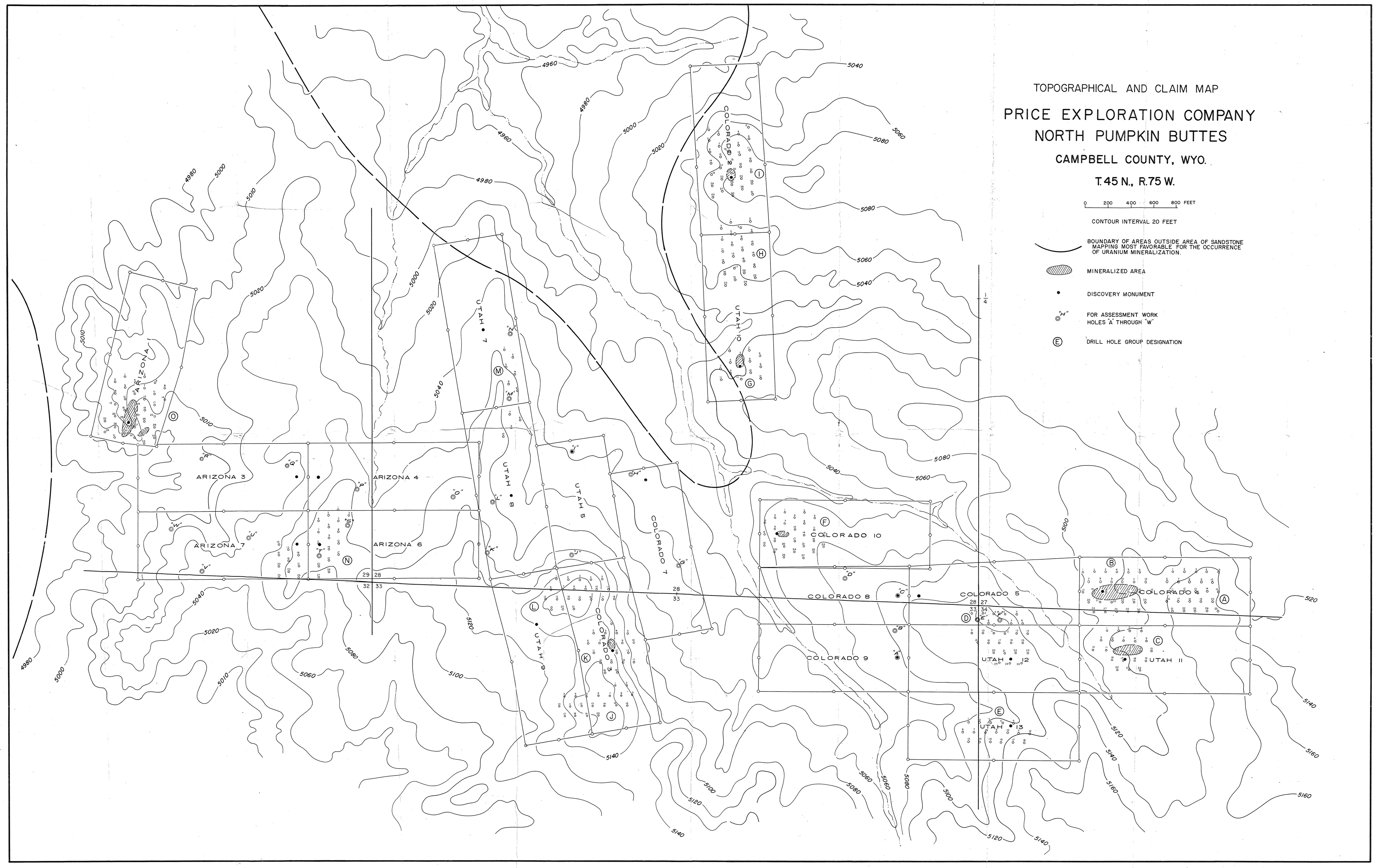
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CIRCULAR 308 PLATE I



GEOLOGIC MAP OF THE EAST-CENTRAL PART OF THE PUMPKIN BUTTES AREA, CAMPBELL COUNTY, WYOMING

FIGURE 2, SH. 1.


TOPOGRAPHICAL AND CLAIM MAP
PRICE EXPLORATION COMPANY
NORTH PUMPKIN BUTTES
CAMPBELL COUNTY, WYO.
T. 45 N., R. 75 W.
0 200 400 600 800 FEET
CONTOUR INTERVAL 20 FEET
BOUNDARY OF AREAS OUTSIDE AREA OF SANDSTONE MAPPING MOST FAVORABLE FOR THE OCCURRENCE OF URANIUM MINERALIZATION.
MINERALIZED AREA
DISCOVERY MONUMENT
"H" FOR ASSESSMENT WORK HOLES "A" THROUGH "W"
(E) DRILL HOLE GROUP DESIGNATION
ARIZONA 3
ARIZONA 4
ARIZONA 6
ARIZONA 7
UTAH • 7
UTAH • 8
UTAH 5
UTAH 9
UTAH 10
UTAH • 11
UTAH • 12
UTAH • 13
COLORADO 2
COLORADO 3
COLORADO 4
COLORADO 5
COLORADO 7
COLORADO 8
COLORADO 9
COLORADO 10
29 28
32 33
28 27
33 34
28
33