DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE — 6 FEB 1958 — Idm-E NO. 1168 — DMEA NO. 4814

Application
- [ ] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

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

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

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

Additional Folders:

Left Side

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

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/14/58	Knouse	700
Hold until 1/11/59		800
1/13	Tolbert	
1/14	Selfridge	120
		~~110~~
		~~100~~
1/14	C	220
		700

JAN 14 1959

Messrs. William Brandt Kohlmoos
and Ted Corder, a partnership
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
Rainbow and Cord Claims
Nye County, Nevada

Gentlemen:

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,

Frank E. Johnson (for)

ACTING Director

FLKnouse/gla
11-14-58
cc to: Director's Reading File
Contract Adm. & Audit Div.
FLKnouse
OME Field Team, Region II (2)

8623

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. Mr. ~~C. O. Mittendorf~~	[illegible]	[illegible]
2. Mr. Frank E. Johnson		
3. Mr. George Selfridge		
4. Mr. F. L. Knouse	FLK	9/12
5.		
FROM: Jay L. Chambers JLC		9/10

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of: 9/11 9/12

William Brandt Kohlmoos and Ted Corder,
a partnership
P. O. Box 4
Ely, Nevada

700

pertaining to Exploration Project Contract No. Idm-K1168, Docket No. DMEA 4814, including Amendment Nos. 1 and 2, for the months of April 1958 to July 1958, inclusive, covering a project for the exploration of Uranium, on property known as the Rainbow and Cord Claims, located in Nye County, Nevada.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of costs claimed with the contract and pertinent schedules, verification of the work performed by reference to Field Team reports and correspondence, 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 reasons given on the attachment to this report.

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

Total cost as billed by Contractor		$2,884.50
Exceptions:		
Prior to this review	$-0-	
Herewith	-0-	-0-
Total Accepted Cost		$2,884.50

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 Two Thousand One Hundred Sixty Three and 38/100 Dollars, is 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.

Amount payable to Operator	$2,163.38
Amount reimbursed	1,047.75
Balance due Operator	$1,115.63

Pd. 9/15/58
July MF-104

George Mavor
George Mavor
Auditor

September 2, 1958

Reasons for Report of Review in lieu of a final audit

Idm-K1168 | William Brandt Kohlmoos and Ted Corder, a partnership | DMSA-4814

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

(b) the Monthly Reports were supported by documentory proof of the costs incurred under the contract except for supervision ($300.00) and sampling and analysis ($30.00) which costs were determined to be reasonable and charged to the cost of the project at the rates specified in the contract; and

(c) a large portion ($1,457.50) of the costs incurred, were under a contract provision for payment by the Government on the basis of fixed unit costs of work actually performed.

Government's copy

Long
Chapman
App'd. Col. Off.
71

RECEIVED
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O.M.E

TERMINATION AGREEMENT

It is agreed this 3rd day of October, 1958, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and William Brandt Kohlmoos and Ted Corder, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idm-E1168, Docket No. DMEA-4814, dated February 6, 1958, as amended, hereinafter called the "Contract," that:

1. Effective August 1, 1958, 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 agreed actual and fixed unit costs of the work performed prior to August 1, 1958.

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

4. All rights of the Government respecting certification of discovery or development, percentage royalty and liens to secure the payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayment, are hereby preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims and 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 C. O. Mittendorf
ACTING Director, Office of Minerals Exploration

William Brandt Kohlmoos (Partner)
William Brandt Kohlmoos

(Partner)
Ted Corder

Kenyse
Selfridge
Chambers
Johnson

September 30, 1958

Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

JUSTIFICATION FOR TERMINATION AGREEMENT

All approved work for Stages I and II have been completed, resulting in the discovery of minor quantities of uranium mineralization.

The Operator completed all of Stage I work, consisting of 650 feet of bulldozer trenching (in four trenches) and related supervision and sample chemical analyses.

Although radiometric readings did not indicate commercial ore in one of the trenches (Trench 4), the down-dipping flank of a small fold below an old adit possibly contained ore at depth. A 25-foot shaft was sunk on this target as Stage II work. The walls of the shaft contained no visible uranium minerals.

No additional work was approved by the Field Team nor requested by the Operator. Therefore, since all the work authorized for Stage II was not completed, the contract should be mutually terminated.

F. L. Knouse

F. L. Knouse

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RECEIVED AUG 5 1958
DATE | INITIALS | CODE
8/5 | 700

Government's copy

App'd. Sol. Off.

EXPLORATION PROJECT CONTRACT
WILLIAM BRANDT KOHLMOOS, ET AL.
DOCKET NO. DMEA-4814

AMENDMENT NO. 2

It is agreed this 16th day of July, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government", and William Brandt Kohlmoos, et al., hereinafter called the "Operator", that Exploration Project Contract No. Idm-E1168, dated February 6, 1958, as amended, hereinafter called the "Contract", is further amended, effective February 6, 1958, as follows:

(a) In Exhibit "A", under Description of the Work, Stage I is revised to read as follows:

"Stage I

"1. Excavate not more than 400 feet of trenches at the approximate locations shown on the attached map, Figure 3.

"2. At locations approved by the Government, excavate not more than 250 feet of additional trenches.

"The aggregate amount of trenching shall not exceed 650 feet."

(b) In Exhibit "A" under Estimated Cost of the Project, Independent Contracts, the excavating footage is changed from "500 feet" to "650 feet".

This amendment shall not be construed to increase the estimated total cost of the project, the total amount of the Government's contribution, or the fixed unit cost of any item.

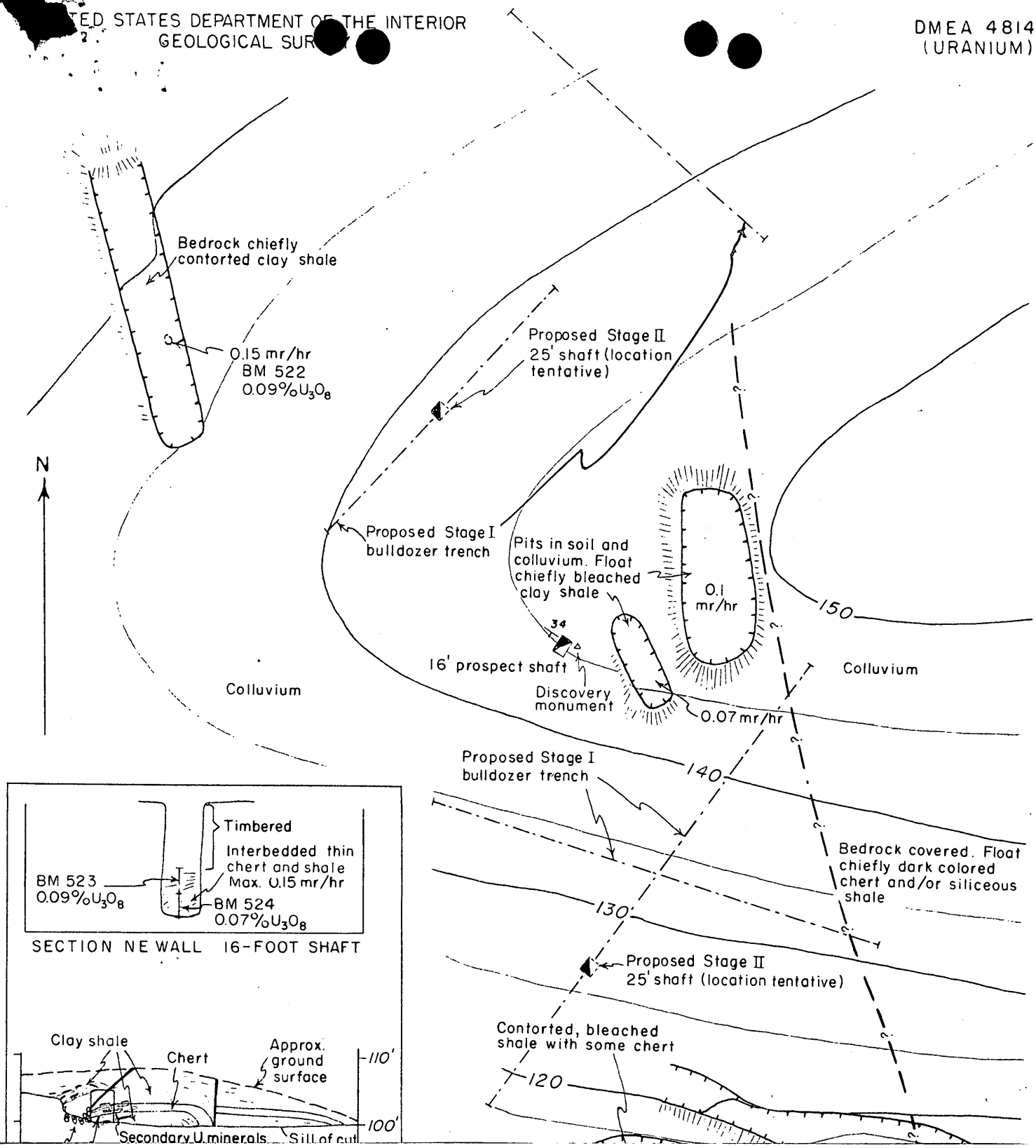
Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

William Brandt Kohlmoos (Partner)
William Brandt Kohlmoos

Ted Corder (Partner)
Ted Corder by W B Kohlmoos

By C J Mittenberg
Administrator, Defense Minerals Exploration Administration


Bedrock chiefly contorted clay shale
0.15 mr/hr
BM 522
0.09%U_3O_8
N
Proposed Stage II 25' shaft (location tentative)
Proposed Stage I bulldozer trench
Pits in soil and colluvium. Float chiefly bleached clay shale
0.1 mr/hr
150
34
16' prospect shaft
Discovery monument
0.07 mr/hr
Colluvium
Colluvium
140
Proposed Stage I bulldozer trench
Bedrock covered. Float chiefly dark colored chert and/or siliceous shale
130
Proposed Stage II 25' shaft (location tentative)
Contorted, bleached shale with some chert
120
Timbered
Interbedded thin chert and shale
Max. 0.15 mr/hr
BM 523
0.09%U_3O_8
BM 524
0.07%U_3O_8
SECTION NE WALL 16-FOOT SHAFT
Clay shale
Chert
Approx. ground surface
110'
100'
Secondary U minerals
Sill of cut

4 1958
CODE

May 8, 1958

I hereby agree to give William B. Kohlmann power of attorney to sign my name to forms, applications, and reports for DMEA or AEC loans or mill applications.

DOCKET NO. DMEA-4814 (Uranium)
CONTRACT NO. IDM-E1168
WILLIAM BRANDT KOHIMOOS ET AL

JUSTIFICATION FOR AMENDMENT NO. 2

Please refer to the Executive Officer's memorandum, dated July 2, 1958.

The 150 feet of trenching over the allowed 500 feet were done at the suggestion of the Government to more completely explore the surface before approving any additional work.

Therefore, Amendment No. 2 is recommended which includes the 150 feet of additional trenching.

F. L. Knouse

F. L. Knouse

Government's copy

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DMEA
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DATE CODE
4/11 700

EXPLORATION PROJECT CONTRACT
WILLIAM BRANDT KOHLMOOS ET AL.
DOCKET NO. DMEA-4814

AMENDMENT NO. 1

It is agreed this 15th day of March, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and William Brandt Kohlmoos and Ted Corder, a partnership, that Exploration Project Contract Idm-E1168, Docket No. DMEA-4814, dated February 6, 1958, is amended as follows:

1. In Exhibit "A," under the heading General Provisions, the second paragraph is revised to read as follows:

"All trenching shall be done with a Model D-7 Caterpillar tractor w/dozer or with an equivalent sized unit of another make. All trenches shall cut into the shale bedrock to a depth of not less than 2 feet. It is estimated that the trenches will have an average total depth of approximately 10 feet."

2. In Exhibit "A," under the heading Estimated Cost of the Project, Stage I, Actual Costs, Category (1) Independent Contracts, is revised to read as follows:

"Category (1) Independent Contracts

60 hours of actual tractor w/dozer operating time excavating 500 feet of trenching (including operator and all necessary costs whatsoever) @ $15.00/hr.	$900.00
Moving tractor to and from project area	132.00
	$1,032.00"

Long
Dougherty

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

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

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

William Brandt Kohlmoos
William Brandt Kohlmoos (partner)

Ted Corder
Ted Corder (partner)

Kuppuse
Ellis
Chambers
Selfridge.

DOCKET NO. DMEA-4814 (Uranium)
CONTRACT NO. IDM-E1168
WILLIAM BRANDT KOHLMOOS ET AL

JUSTIFICATION FOR AMENDMENT NO. 1

The Operator is unable to find a Model D-8 caterpillar tractor nearby, but can get a Model D-7 nearby that he wishes to use. The Field Team recommends the use of the smaller tractor at a reduced hourly rate and the writer agrees with their recommendations.

F. L. Knouse

Ellis

Government's copy

MF-200
(Revised June 1954)

Docket No. DMEA 4814

Commodity Uranium

Contract No. Idm-E 1168

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

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 6 FEB 1958 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] William Brandt Kohlmoos and Ted Corder, a partnership, whose mailing address is P. O. Box 4 Ely, Nevada, 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 two maps, Figures 2 and 3.

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 Nevada, County of Nye, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] owner of [5] the entire interest in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] Location Notices, [7] ..... recorded in Book ....., page ....., official records of said County; and

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

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

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

of the land (lessor, seller, optionor, etc.), are attached, as follows: .....

.....

.....

(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 May 15-1958 shall commence the work, and on or before August 1, 1958 (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 8) in an amount not less than the estimated total allowable cost set forth in Exhibit "A"~~, except as otherwise provided in Exhibit "A" with respect to stages of work. (See Article 13.)

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 $4,740.00. The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $3,555.00: *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; ~~[illegible] categories, subcategories, items, thereunder, the Operator is not obligated to incur more than his agreed percentage of the estimated total allowable cost of the work.~~ See Article 13.

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. See Article 13.

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 ~~2~~. 8. 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.*—

See Annex II.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C Mittendorf
Administrator, Defense Minerals
Exploration Administration

William Brandt Kohlmoos
William Brandt Kohlmoos (partner)

By
Ted Corder (partner)

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]

Long
Sawyer
"Appd. Sol. Off."
Knowle
Chambers
Selfridge
Johnson

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

EXPLORATION PROJECT CONTRACT
WILLIAM BRANDT KOHLMOOS ET AL.
DOCKET NO. DMEA-4814

ANNEX I

The land referred to in Article 2 of the Contract form consists of 19 contiguous unpatented lode mining claims situated in sec. 3, T. 12 N., R. 45 E., M.D.M. & B., Nye County, Nevada. The Notices of Location of the claims are recorded in the official records of Nye County, Nevada, as follows:

Claim	Book	Page
Rainbow No. 1	6	150
" No. 2	6	151
" No. 3	6	152
" No. 4	6	153
" No. 5	6	154
" No. 6	6	155
" No. 7	6	156
" No. 8	6	157
" No. 9	6	158
" No.10	6	159
" No.11	6	160
" No.12	6	161
" No.20	13	389
Cord	6	171
Cord No. 1	13	383
" No. 2	13	384
" No. 3	13	385
" No. 4	13	386
" No. 5	13	387

The descriptions in said Notices of Location are incorporated herein by reference, and the relative locations of the claims are shown on the attached map entitled, "Figure 2. Claim Map, Rainbow and Cord Claims, Nye County, Nevada."

The Operator is the locator of the claims.

EXPLORATION PROJECT CONTRACT
WILLIAM BRANDT KOHLMOOS ET AL.
DOCKET NO. DMEA-4814

ANNEX II

Article 13. Changes and added provisions.--

(a) That part of the last sentence of Article 3 beginning with the word "either" is deleted and replaced by the words "have completed the work, except as otherwise provided in Exhibit 'A' with respect to stages of work."

(b) That part of the last sentence in the first paragraph of Article 6(a) commencing after the semicolon is deleted.

(c) Categories (3) through (6) of Article 6(a) are deleted.

(d) In addition to the costs of work estimated in Exhibit "A" by categories of actual costs, the costs of work requirements specified in Exhibit "A" as "Fixed Unit Costs" are allowable costs of the project. The Government will contribute to the fixed unit costs as work units are performed. A "Fixed Unit Cost" is an agreed price for each unit of work to be performed regardless of costs incurred by the Operator. Costs set forth in Exhibit "A" include all allowable costs of the work to be performed under the Contract.

(e) In the last sentence of Article 6(c), the words "Article 8" are substituted for the words "Article 9."

EXPLORATION PROJECT CONTRACT
WILLIAM BRANDT KOHLMOOS ET AL.
DOCKET NO. DMEA-4814

EXHIBIT "A"

General Provisions

The object of the project is to explore at depth a zone of uranium-bearing shale by means of trenching with a tractor and by sinking not more than two shafts at locations in the trenches where significant mineralization is exposed. The approximate location and extent of the trenching is shown on the attached map entitled, "Figure 3. Maps and Sections of Workings, Rainbow No. 1 Claim, Nye County, Nevada."

All trenching shall be done with a Model D-8 Caterpillar tractor w/dozer or with an equivalent size unit of another make. All trenches shall cut into the shale bedrock to a depth of not less than 2 feet. It is estimated that the trenches will have an average total depth of approximately 10 feet.

The shafts shall have a rock cross-sectional dimension of not less than 4 feet by 7 feet and shall be timbered as necessary with standard two-compartment shaft sets on 5-foot centers. Neither shaft shall exceed 25 feet in depth. No work shall be performed within 100 feet of the outside boundary of the property.

The entire length of the trenches and shafts shall be checked for radioactivity and uranium mineralization. Areas indicating significant mineralization shall be channel sampled across the exposures at intervals of not more than 10 feet and the samples shall be analyzed chemically for U_3O_8. Not more than 20 samples shall be analyzed chemically for either Stage I or Stage II. The method of all sampling is subject to the approval of the Government. All samples, from the trenches or shafts, selected for chemical analyses shall be split into halves; one-half shall be assayed and the other half shall be properly labeled, stored and furnished to the Government upon request. With Government approval, the Operator may dispose of all stored samples.

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

The work is divided into two stages as set forth below. The Operator shall perform all the Stage I work and as much of the Stage II work as is approved in writing in advance by the Government.

Description of the Work

Stage I

1. Excavate not more than 400 feet of trenches at the approximate locations shown on the attached map, Figure 3.

2. At locations approved by the Government, excavate not more than 100 feet of additional trenches.

The aggregate total amount of trenching shall not exceed 500 feet.

Stage II

At locations approved by the Government in the Stage I trenches where significant uranium mineralization is exposed, sink not more than two 2-compartment shafts.

The aggregate total amount of shafts shall not exceed 50 feet.

Estimated Cost of the Project
(In addition to the maximums set forth in Article 6, an asterisk indicates maximum.)

Stage I

Actual Cost

Category (1) Independent Contracts

52 hours of actual tractor w/dozer operating time excavating 500 feet of trenching (including operator and all necessary costs whatsoever)

@ $16.00/hr.	$832.00	
Moving tractor to and from project area	200.00	$1,032.00

Category (2) Labor, Supervision, and Technical Services

1 supervising engineer @ $600.00/mo., 1/2 mo.	$300.00	300.00

Categories (3) through (6)

None

Category (7) Miscellaneous

None except: 20 chemical sample analyses @ $5.00*/ sample	$100.00	100.00

Estimated total cost of Stage I $1,432.00

Stage II

Actual Cost

Categories (1) through (6)

None

Category (7) Miscellaneous

None except: 20 chemical sample analyses @ $5.00*/ each sample	$100.00	$100.00

Fixed Unit Cost (See Article 13.)

50 feet of shafting @ $54.42/ft 1/	$2,721.00	
50 feet of shaft timbering @ $9.70/ft. 1/	485.00	$3,206.00

Estimated total cost of Stage II $3,306.00

S U M M A R Y

Estimated total cost of Stage I	$1,432.00	
Estimated total cost of Stage II	$3,306.00	
Total estimated cost of the project (rounded)		$4,740.00
Government participation @ 75%		$3,555.00

1/ Includes all costs that might otherwise be allowable costs of the project under Categories (2) through (7) of Article 6(a).

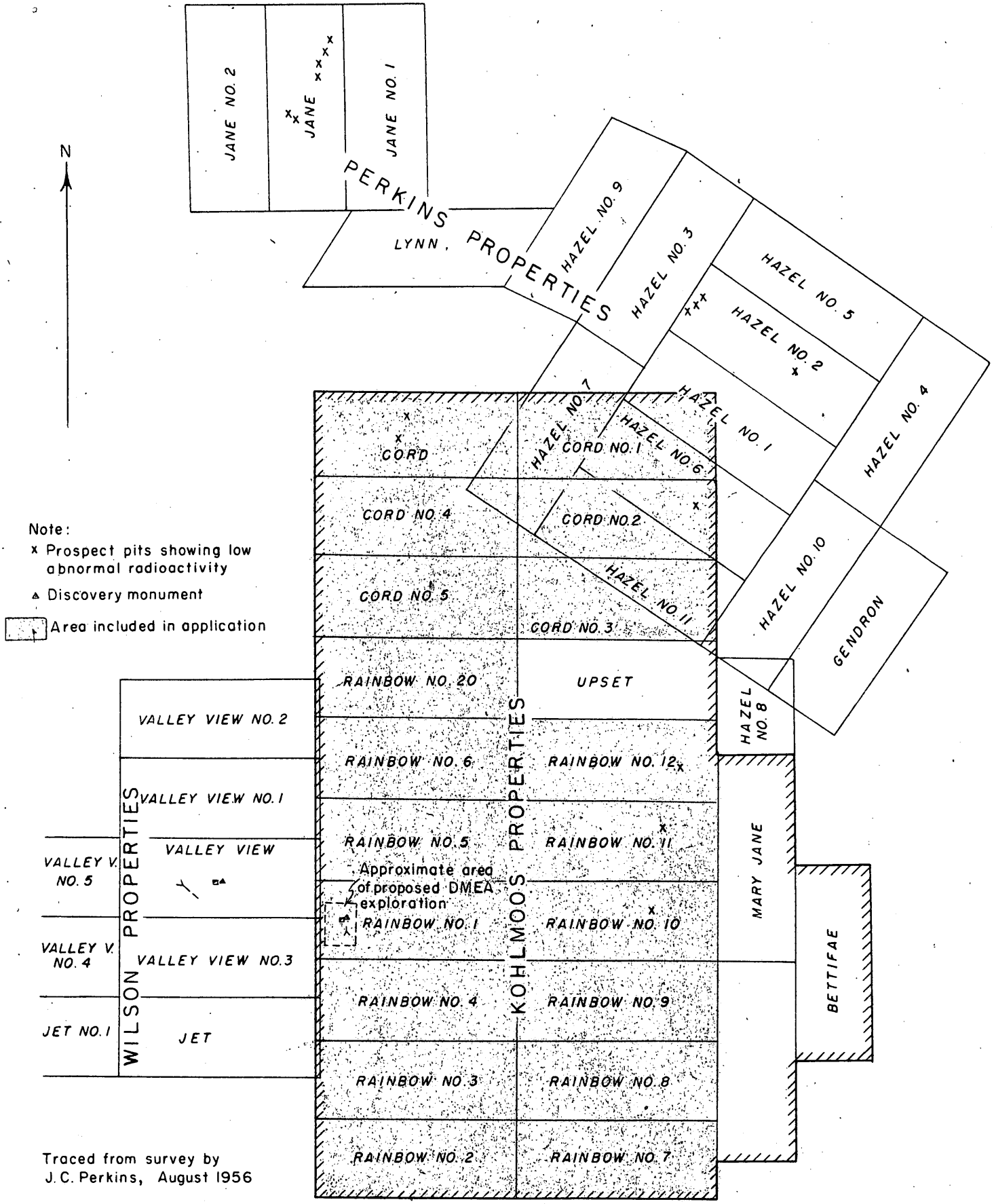
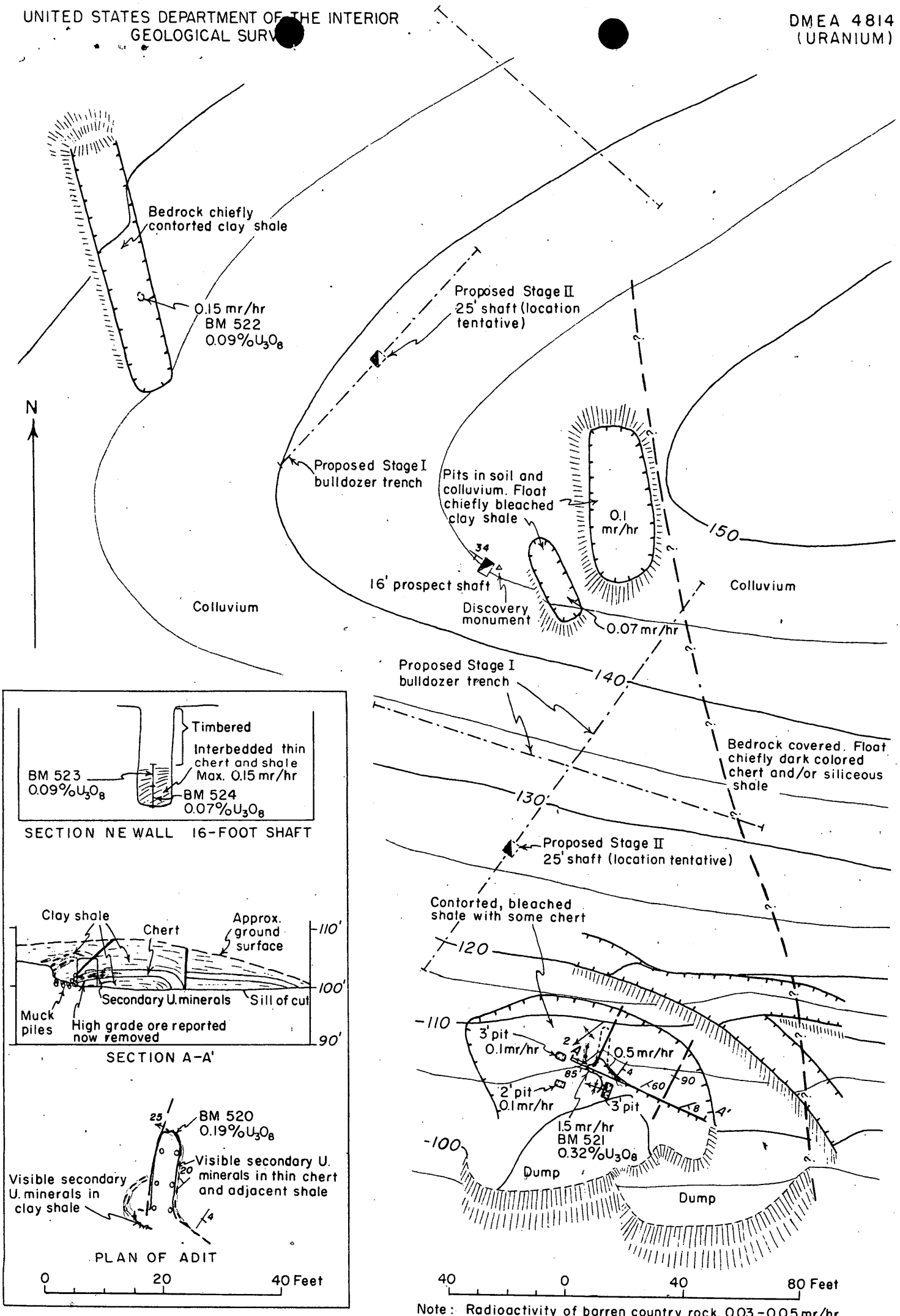


Figure 2. CLAIM MAP, RAINBOW AND CORD CLAIMS, NYE COUNTY, NEVADA



Note: Radioactivity of barren country rock 0.03-0.05 mr/hr. Contours approximate. Contour interval 5 feet. Datum assumed.

Figure 3. MAPS AND SECTIONS OF WORKINGS, RAINBOW NO. 1 CLAIM
NYE COUNTY, NEVADA

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

August 16, 1957

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
Wm. Brandt Kohlmoos and Ted Corder
Rainbow Group
Nye County, Nevada

Enclosed are three sets of MF-103, Application for Aid forms, relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attachments

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 19 1957

DATE	INITIALS	CODE

Form MF-103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

William Brandt Kohlmoos et al.
P. O. Box 4
Ely, Nevada

APPLICANT NOT TO USE THIS BLOCK

Docket Number: 4814
Date Received: 8/19/57
Government Participation %:
Region: ~~700~~ II
Division Code: 700

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [ ]
- Partnership [X]
- Other (Specify) [ ]

State in which firm is organized:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Ted Corder,	1329 Main St., Susanville, California	partner
Wm. B. Kohlmoos,	P. O. Box 4, Ely, Nev.	partner

Mineral(s) for which you wish to explore: uranium and rare earths

Estimated Cost of Project: $ $20,000.00

LOCATION OF PROPERTY

Name	County	State
Rainbow Group (Northumberland Mining District)	Nye	Nevada

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

July 10, 1957
Dated

William Brandt Kohlmoos
BY *(Signature)*

Partner
Title

RECEIVED AUG 19 1957 D.M.E.A.

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property, giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 15539

W. B. Kohlmoos
P. O. Box 4
Ely, Nevada

1. Applicant's Property Rights

(a) Toquima Range, 80 miles north of Tonopah, Nevada. T12N, R45E, Section 3 (approximately. Unsurveyed.)

19 unpatended claims; certificated recorded at the Nye County Courthouse, Tonopah, Nevada, as follows:

Name	Date	Book	page
Rainbow #1	Sept. 14, 1955	6	150
Rainbow #2	"	6	151
Rainbow #3	"	6	152
Rainbow #4	"	6	153
Rainbow #5	"	6	154
Rainbow #6	"	6	155
Rainbow #7	"	6	156
Rainbow #8	"	6	157
Rainbow #9	"	6	158
Rainbow #10	"	6	159
Rainbow #11	"	6	160
Rainbow #12	"	6	161
Rainbow #20	July 18, 1956	13	389
Cord	Sept. 14, 1955	6	171
Cord #1	July 18, 1956	13	383
Cord #2	"	13	384
Cord #3	"	13	385
Cord #4	"	13	386
Cord #5	"	13	387

(b) The property is known by the following names:

1. Northumberland area.
2. Rainbow group.
3. Kohlmoos' claims.

(c) Ownership of claims:

W. B. Kohlmoos and Ted Corder, partners, are full and complete owners of the above named claims, by right of location.

(d) There are no liens, mortgages, or other encumbrances on the property.

W. B. Kohlmoos
P. O. Box 4
Ely, Nevada

2. Physical Description

(a) Mining or exploration operations: At Rainbow #1.

1. One shaft, 5 x 7 feet by 20 feet deep.
2. One open cut, 10 ft. wide, 30 ft. long, 6 ft. deep.
3. One open cut, 20 ft. wide, 100 ft. long, 14 ft. deep.
4. one tunnel, 4 x 6 ft., 12 feet long.

(Map attached.)

(b) Said owners of mining claims are owners of work described in 2.(a), above.

(c) No past or present production.

(d) Ore reserves unknown. A three-foot vein is showing in the tunnel described in 2.(a)4., above, from which uranium samples run 0.165% to 1.216% U_3O_8, plus titanium and rare-earths, as per enclosed assays.

(e) The ore in this area occures in a flat-lying series of intercalated shale and limestone beds, which are underlain at depth by a granitic intrusion. Hundreds of radioactive anomalies occure in an area that is 2 miles wide and 3 miles long. The radioactivity occures in the sediments, and follows a definite pattern, having a NE and SW zone strike. There is no radioactivity in the areas between the veins. The ore is autenite, and is sometimes accompanied by torbernite. The veins show a hematite mineralization, and there is usually a silicification of the adjacent sediments.

The area lies at the northern end of a major fault, and the mineralization occures on minor cross faults.

One mile to the north of this area the granit has pushed through the sediments, and lies exposed. Along the border of this contact was located the Northumberland Gold Mine, together with numerous silver diggings, many of which date back to 1866.

(f) Samples were chipped from a 3-foot width for a distance of 9 feet, in the tunnel described in 2.(a)4., above, for which the assay reports are enclosed.

The report that shows 1.216% uranium was taken from a 2-foot square area several feet in from the portal.

(g) There are no geologic or engineering reports on the area.

Bill Kohlmoos
P. O. Box 4
Ely, Nevada

3. Accessibility of Project.

(a) Name and address of person who will accompany DMEA representative on examination of property.

William B. Kohlmoos
P. O. Box 4
Ely, Nevada

Loacation of property:

The claims are located at Northumberland, Toquima Range, approximately 80 miles north of Tonopah, Nev.

There are two routes that can be used to reach the claims.

1. From Tonopah, Nevada, go 5 miles easterly, on U.S. Highway 6, turn north on Nevada Highway 8-A for approximately 13 miles, turn easterly on dirt road, 82, and thence in a northerly direction, passing through Belmont and the Pine Creek Ranch. About 6 miles north of the Pine Creek Ranch, turn westerly, on road marked "Northumberland", and proceed 6 miles up canyon to old gold camp.

2. From the junction of highways U.S. 50 and State 8-A, take dirt road in a south-easterly direction to the "Potts", or "Monitor Valley" Ranch, thence southerly down Monitor Valley about 15 to 20 miles, to small sign marked "Northumberland", thence westerly 8 miles to Northumberland.

(b) Mr. J. C. Perkins and several families reside at Northumberland. The claims are reached by going one mile south of Northumberland on main road, turning west at lower tailings pond, and following bulldozed road 2 to 3 miles to an old home-built house trailer with wheels removed, thence easterly up steep hill to the location of Rainbow #1.

W. B. Kohlmoos
P. O. Box 4
Ely, Nevada

4. THE EXPLORATION PROJECT

(a) The first step in the proposed program is to hire a consulting geologist to study the property and to make a geologic map of the claims, together with recommendations on the locations of bulldozed open cuts and drill sites.

Following the geologist's study, it is proposed to rent a bulldozer and make various open cuts and prepare drill sites, including the construction of a short, temporary road leading to the drill sites.

After the drill sites are prepared, it is planned to bring in a drill rig and drill as per the geologist's suggestions.

The entire program should be flexible to be most effective. After the work has commenced, it might become apparent that more bulldozing and less drilling would be more advantageous. Other contingencies may warrant different minor changes in the program, including extension of the existing tunnel or shaft, the costs for which would be deducted from the amount allotted to drilling.

The location of the proposed work will be on the Rainbow #1 claim, in the vicinity of the radioactive anomaly, unless the proposed geologic study indicated some other location would be more practical.

(b) Access road was constructed in 1955 at claim owners' expense. It may be necessary to slightly widen the existing road in one or two places, which could be accomplished in several hours with a bulldozer.

(c) It is planned to commence work in September, 1957, should a DMEA contract be executed. The geologic study and report would be made first.

Due to the altitude (8,500 ft.) of the location, and the heavy snows experienced in the winter, it would be best to postpone the bulldozing untill the following spring, as the snow might damage some of the drill sites, were they constructed in the fall.

Bulldozing and drilling should be concluded in the summer of 1958.

W. B. Kohlmoos
P. O. Box 4
Ely, Nevada

5. Operating experience and background of applicant:

Bachelor of Science degree in A.S., University of California, 1953. Courses taken included chemistry, engineering, soils, and geology.

Three years of private study in mining engineering, aided by retired mining engineer.

Eleven years of prospecting and experience in field, supplemented by private study of geology.

Two years of work in large open pit mine, operating heavy equipment and drills.

Eight years in management of farms and ranches.

W. B. Kohlmoos
P. O. Box 4
Ely, Nevada

6. ESTIMATE OF COSTS

(a) Independent contracts:

1/	Geologic study and map: Geologist - ten days @ $100.00/day	$ 1,000.00
2/	Bulldozing: 50 hrs. @ $12.50/hr.	625.00
3/	Transportation for bulldozer:	100.00
4/	Drilling and drill hole logging:	14,225.00

Bids are being requested on the above items, and will be submitted upon reciept, to be filed with this application.

(b) Personal services:

Supervision and labor to assist in execution of items listed under 6.(a).

100 days @ $30.00/day 3,000.00

Supervision and labor to be furnished by W. B. Kohlmoos, applicant.

(c) not applicable.

(d) Jeep pick-up: transportation for the geologist; haul fuel and supplies for bulldozer and transportation for the operator; assist drilling operations and haul water to drill sites.

100 days @ $7.00/day 700.00

(e) not applicable.

(f) not applicable.

(g) Accounting and other services to be included in charges under 6(b), above.

Assays - 350.00

TOTAL $20,000.00

W. B. Kohlmoos
P. O. Box 4
Ely, Nevada

7. (a)

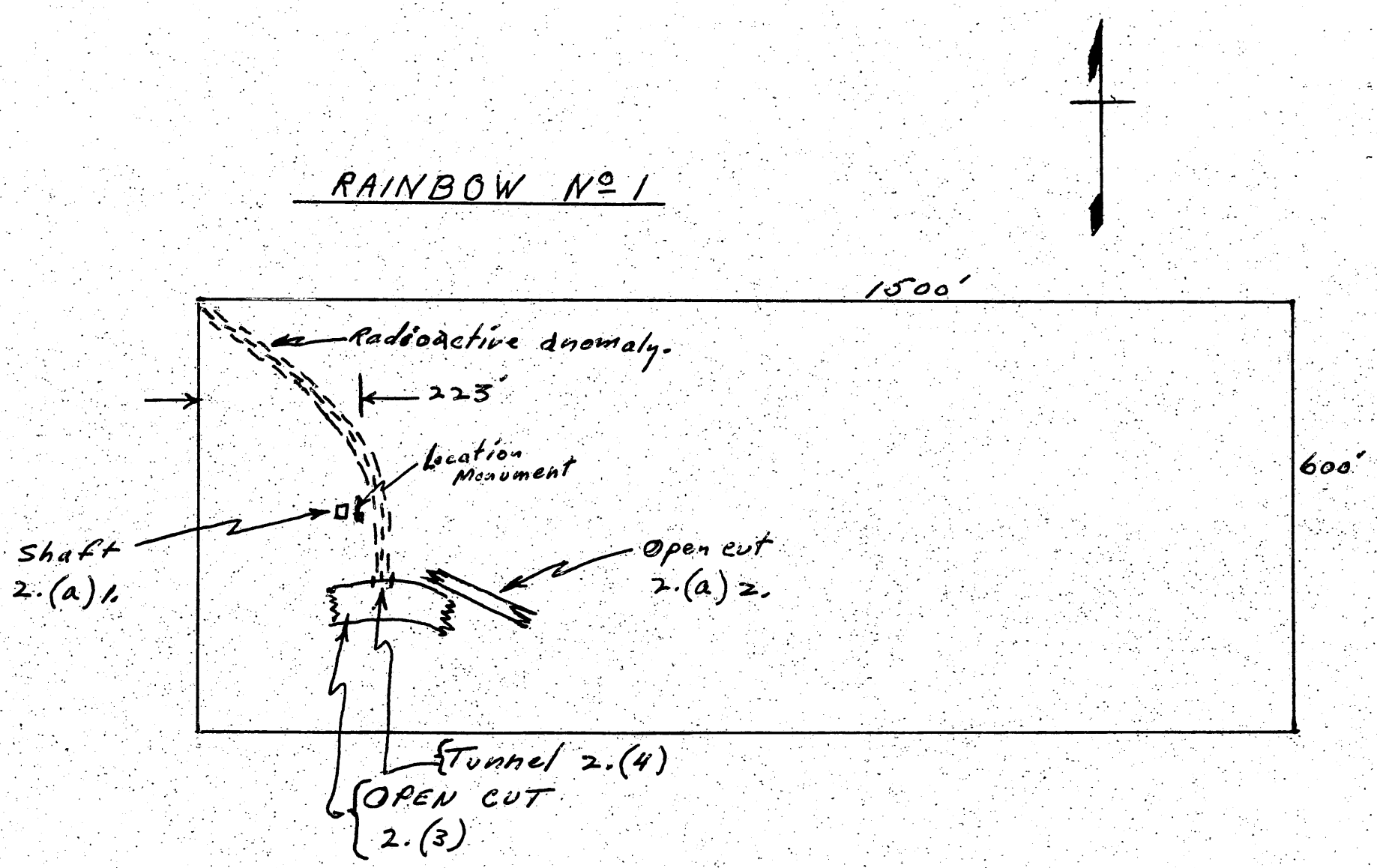
I am prepared to furnish my share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order-I, Amended.

(b)
The applicant intends to furnish his share of the costs by providing 6(b) $3,000.00, and 6(d) $700.00, and $1,200.00 cash.

Cord	Cord No 1
Cord No 4	Cord No 2
Cord No 5	Cord No 3
Rainbow No 20	
Rainbow No 6	Rainbow No 12
Rainbow No 5	Rainbow No 11
Rainbow No 1	Rainbow No 10
Rainbow No 4	Rainbow No 9
Rainbow No 3	Rainbow No 8
Rainbow No 2	Rainbow No 7

W. B. Kohlmoos
P.O. Box 4
ELY, Nevada

RAINBOW Nº 1



W. B. Kohlmoos
P. O. box 4
ELY, Nevada

Scale: ½ in. = 100'

LABORATORY CERTIFICATE

Keldon research corporation

LUdlow 3-4044

MAIL: BOX 2555 TERMINAL ANNEX, LOS ANGELES 54, CALIF. • LABORATORY: 2565 BELGRAVE AVE., HUNTINGTON PARK, CALIF.

Date June 17, 1957

Submitted By Name Mr. W. B. Kohlmoos

Address Box 4

City Ely, State Nevada

REFER TO	NOTED	DATE
Shacker		
ANSWERED		

Rainbow #1
bulldozed cut

Lab. No.	17117-1
Marking	#1 Shale
Uranium Oxide (U_3O_8)	0.16%

This value is by wet assay and is an independent check on our previous report of June 11, 1957.

This is a final value and should be considered the most nearly correct.

KELDON RESEARCH CORPORATION

Thomas J. Rollins

Thomas J. Rollins

TJR/t-3

THE USE OF THIS REPORT FOR ADVERTISING PURPOSES MUST RECEIVE OUR WRITTEN APPROVAL

LABORATORY CERTIFICATE

Kelldon

research corporation

LUdlow 3-4044

MAIL: BOX 2555 TERMINAL ANNEX, LOS ANGELES 54, CALIF. • LABORATORY: 2565 BELGRAVE AVE., HUNTINGTON PARK, CALIF.

Date July 8, 1957

Submitted By Name Mr. W. B. Kohlmoos

Address Box 4

City Ely, State Nevada

Reference

Lab. No.	17427-1
Marking	Rainbow #1 – Tunnel portal
Uranium Oxide (U_3O_8)	1.21%

The above value is by wet assay and is an independent check on our previous report of July 1, 1957.

This is a final value and should be considered the most nearly correct.

KELDON RESEARCH CORPORATION

Thomas J. Rollins

TJR/t-3

THE USE OF THIS REPORT FOR ADVERTISING PURPOSES MUST RECEIVE OUR WRITTEN APPROVAL

OFFICIAL FILE COPY
D M E A
RECEIVED AUG 1957

DATE	INITIALS	CODE

LABORATORY CERTIFICATE

Keldon
research corporation
LUdlow 3-4044
MAIL: BOX 2555 TERMINAL ANNEX, LOS ANGELES 54, CALIF. ⊙ LABORATORY: 2565 BELGRAVE AVE., HUNTINGTON PARK, CALIF.

Date June 26, 1957

Submitted By Name Mr. W. B. Kohlmoos

Reference L.N. 17312-1

Address P.O. Box 4

Marking: Rainbow #1 - whole tunnel

City Ely State Nevada

ELEMENT	NOT LESS THAN	NOT MORE THAN	ELEMENT	NOT LESS THAN	NOT MORE THAN
Silicon	5.0 %	50.0 %	Molybdenum	0.005 %	0.05 %
Aluminum	2.0	20.0	Vanadium	0.05	0.5
Magnesium	1.0	10.0	Lithium		
Iron	2.0	20.0	Yttrium ✓	0.01	0.1
Calcium	2.0	20.0	Cadmium		
Sodium	0.05	0.5	Copper	0.01	0.1
Potassium	0.1	1.0	Silver		
Tellurium			Tantalum		
Boron			Zinc	0.01	0.1
Phosphorus	0.05	0.5	Titanium	0.3	3.0
Antimony			Zirconium	0.03	0.3
Gold			Palladium		
Lead		0.03	Rhodium		
Tin			Ruthenium		
Chromium			Cobalt		
Arsenic			Lanthanum ✓	0.005	0.05
Manganese	0.01	0.1	Cerium ✓	0.01	0.1
Gallium			Strontium	0.03	0.3
Germanium			Tungsten		
Platinum			Mercury		
Bismuth			Indium		
Columbium			Barium		
Nickel	0.005	0.05	Uranium		
Beryllium			Thorium		

1. Percentage ranges represent the probable concentrations of the elements found to be present.
2. Fire assay is the method of choice for Gold and Platinum group elements; general spectrographic techniques are limited to ore concentration greater than one or two ounces per ton.
3. Spectrochemical analysis is only one of several factors required for the complete evaluation of an ore sample; it should be regarded as a "Coarse Screen" used to estimate the advisability of additional study. Economic and mineralogical considerations are also necessary for a true appraisal of the specimen.
4. Special attention: Uranium Oxide: 0.01% Equilibrium: gamma excess
   Accuracy: fair
   Thorium Oxide: not detected, less than 0.03%.

Respectfully submitted,

T.J. Rollins
Keldon Research Corporation

TJR/t-3

THE USE OF THIS REPORT FOR ADVERTISING PURPOSES MUST RECEIVE OUR WRITTEN APPROVAL

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 19 1957

DATE	INITIALS	CODE

LABORATORY REPORT
ABBOT A. HANKS, INC.
ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1866
624 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1697

Lab. No. 18014 Date July 22, 1957

Submitted by Black & Deason
P. O. Box 1888
Salt Lake City 10, Utah

Sample Mark #3
W. B. Kohlnees Rainbow #1
tunnel
whole vein
9' in

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found
and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Vanadium Zinc Copper Sodium Potassium Boron Manganese Zirconium Nickel Cobalt Strontium Chromium Silver	Magnesium Titanium Uranium Molybdenum Rare Earths Lead	Iron Calcium	Aluminum	Silicon
			Radiometric U3O8	#3-0.16

OFFICIAL FILE COPY
DMEA
RECEIVED
DATE

Remarks

bob

RESPECTFULLY SUBMITTED,
ABBOT A. HANKS, INC.
Original Signed by
MARTIN P. QUIST
By
Spectro-Chemist

FORM A-5

LABORATORY REPORT
ABBOT A. HANKS, INC.
ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1866
624 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1697

Lab. No. 18015 Date July 22, 1957

Submitted by Black & Deason
P. O. Box 1888
Salt Lake City 10, Utah

Sample Mark #4

Rainbow #1
Tunnel - 9' in.
Grey clay - (dolomite?)
on floor

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found
and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Vanadium Zinc Lead Molybdenum Copper Sodium Potassium Zirconium Boron Manganese Nickel Cobalt Strontium Chromium Silver	Magnesium Titanium Rare Earths	Iron Calcium	Aluminum	Silicon
			Radiometric U_3O_8	#4 0.06

Remarks Spectrographic sensitivity not sufficient to detect radioactive element.

RESPECTFULLY SUBMITTED.
ABBOT A. HANKS, INC.
Original Signed by
By MARTIN P. QUIST
Spectro-Chemist

bob

FORM A-5

Lab. No.

Submitted by

Less than 100

Remarks

LABORATORY REPORT
ABBOT A. HANKS, INC.
ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1866
624 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1697

Lab. No. 18016 *Date* July 22, 1957

Submitted by Black & Deason
P. O. Box 1888
Salt Lake City 10, Utah

Sample Mark #5

Rainbow #1
Tunnel - 9' in
grey shale -
carrying vein.

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found
and Estimated Percentage Range

Less than .03%	*.03% to .30%*	*.30% to 3%*	*3% to 30%*	*30% to 100%*
Lead Vanadium Zinc Rare Earths Zirconium Copper Sodium Potassium Boron Manganese Nickel Cobalt Strontium Chromium Silver	Magnesium Titanium Molybdenum	Iron Calcium	Aluminum	Silicon
			Radiometric U_3O_8	#5 0.05

Remarks Spectrographic sensitivity not sufficient to detect radioactive element.

RESPECTFULLY SUBMITTED,
ABBOT A. HANKS, INC.

bob

By [signature]
Spectro-Chemist

FORM A-8

DOCKET COPY

Project Summary Report

By: F. L. Knouse November 14, 1958

1. Docket No. DMEA-4814 (Uranium)
   Contract No. Idm-E1168

   Operator - William Brandt Kohlmoos and
   Ted Corder, a partnership
   P. O. Box 4
   Ely, Nevada

   Property - Consists of 19 contiguous unpatented lode mining claims in sec. 3, T. 12 N., R. 45 E., M.D.M.& B., Nye County, Nevada. The claims are: Rainbow Nos. 1 through 12, and 20; Cord; and Cord Nos. 1 through 5.

   Property rights - Operator is owner - by location.

2. Contract date - February 6, 1958.

   Project work was started April 25, 1958, and was completed about August 1, 1958.

   Work Authorized -

   Consisted of a two-stage program of surface trenching and shaft sinking to explore at depth a zone of uranium-bearing shale.

   Stage I - Consisted of 4 or 5 bulldozer trenches aggregating not more than 500 feet in length and estimated to be 2 to 10 feet deep.

   Stage II - Consisted of two 4' x 7' two-compartment timbered shafts, aggregating not more than 50 feet, on significant uranium mineralization exposed in the trenches.

Estimated and completed cost of project work

Stage I

Allowed		Work Completed	
Actual Cost	Est. Cost	Units	Cost
52 hrs. bulldozing @ $16/hr. (500 ft. trenching)	$ 832.00	* 60 **(650' trenching)	$ 900.00
Moving tractor to and from project	200.00		132.00
Supervision and tech. service @ $600/mo. - 1/2 mo.	300.00		300.00
20 chem. sample analyses @ $5/sample	100.00	13	30.00
Total - Stage I	$1,432.00		$1,397.00

Stage II

Actual Cost			
20 chem. sample analyses @ $5/sample	$ 100.00	6	$ 30.00
50 ft. shafting - 2-compartment 4' x 7' @$54.42/ft.	2,721.00	25'	1,360.50
50 ft. shaft timbering @ $9.70/ft.	485.00	10'	97.00
Total - Stage II	$3,306.00		$1,487.50
Est. total cost of project (rounded)	$4,740.00		$2,884.50
Government participation @ 75%	$3,555.00		$2,163.38

* Model D-7 Caterpillar tractor used in lieu of Model D-8 at $15/hr. allowed by Amendment No. 1.

** Allowed by Amendment No. 2, at no additional cost.

Amendments -

No. 1 - dated March 15, 1958, permitted the use of a Model D-7 Caterpillar tractor in lieu of a Model D-8 at $15.00/hr. and increased the operating hours from 52 to 60. Also decreased amount allowed of $200.00 to $132.00 for transporting tractor to and from project.

No. 2 - dated July 16, 1958, increased the aggregate amount for trenching from 500 ft. to 650 ft. at no additional cost to the project.

Terminated - October 3, 1958, effective date: August 1, 1958.

Final Reports -

Operator's, dated July 11, 1958, received in the Division August 25, 1958.

Field Team's, dated September 12, 1958, received in Division September 30, 1958.

3. Audit Report of Review, dated September 2, 1958.

Total cost as billed by Contractor	$2,884.50
Exceptions	-0-
Total Accepted Cost	$2,884.50
Government participation @ 75%	$2,163.38

4. Certification - None

The Field Team recommended that no certification should be issued, and the writer concurs with their recommendation.

Production

None reported before or during the DMEA project.

Reserves

A few tons of measured ore were exposed by Trenches Nos. 2 and 4 that average less than 0.15% U_3O_8. The 150 tons of about 0.20% U_3O_8 indicated ore originally estimated is now somewhat less because of loss by bulldozing Trench No. 4. A few tons of submarginal ore can probably be inferred in areas of low abnormal radioactivity on the Rainbow No. 1 claim.

5. Comments -

The Field Team's final report states that the work was competently done by both the Operator and the contractor. Except for short delays of bulldozer-trenching through silicified shale, the work was performed without difficulty.

The project was established to explore at depth a zone of uranium-bearing shale by means of bulldozer trenches to bedrock followed by sinking not more than two shafts to a maximum depth of 25 feet on significant exposures of uranium mineralization in the trenches. Indicated reserves of 150 tons estimated to contain 0.20% U_3O_8 and by one or more covered ore bodies (indicated by low abnormal radioactivity) justified the project work.

The property is in an area of generally high relief but sparse outcrops. The bedrock is chiefly clay shale with a few thin interbedded chert layers and cherty siliceous shale. A few small altered granite dikes cut the sedimentary rocks and a small granite stock outcrops about a mile north of the claims. The sediments have been tilted, locally folded, and intensely fractured.

Yellow and greenish-yellow secondary uranium minerals occur as fracture coatings in clay shale, identified by AEC as phosphuranylite and minor amounts of meta-autunite. Samples taken indicate that the uranium is out of equilibrium with its daughter products.

Four trenches were excavated aggregating 650 feet in length and to a maximum depth of 25 feet. Trench 4 disclosed a small amount of uranium mineralization in folded clay shale near the adit, the area of the indicated 150-ton ore body. Other trenches failed to expose encouraging uranium mineralization. Although radiometric readings did not indicate commercial ore in Trench 4, the down-dipping flank of a small fold possibly contained ore at depth. A 25-foot shaft was sunk on this target but no ore was exposed.

It is concluded that the uranium mineralization is in localized sub-surface deposits caused by descending uranium-bearing waters. Also, that there is no evidence that a significant deposit of uranium exists on the property.

The property was adequately explored, and further exploration of the property is not warranted.

F. L. Knouse

F. L. Knouse

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: William Brandt Kohlmoos and Ted Corder, a partnership		Actual Cost	*
State: Nevada		Agreed Unit Cost	x x
Final Report of Audit	x	Commodity: Uranium	Docket No. DMEA-4814
Final Report of Review	x		Contract No. Idm-E1168

Operation	Authorized by Contract and Amendments		Completed		Net cost after sale of Government Property
	Units	Cost	Units	Cost	
Drifting & Crosscutting					
Raising					
Shafts-Timbered 4'x7'	50'	$3,206.00	25'	$1,457.50 x x	$1,457.50 x x
Winzes					
Drilling (Specify)					
Surface Excavation 650 ft. Trenching		1,332.00		*1,332.00	1,332.00 *
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify) 40 sample analyses		200.00		95.00	95.00
Totals (Rounded)		$4,740.00		2,884.50	* $2,884.50

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

Prepared by K Crouse Date 11-13-58

31398

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1605 Evans Avenue
Reno, Nevada

Nov. 7, 1958

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 10 1958

DATE	INITIALS	
11/10	C	220
11/13	Kuoma	TOU

Memorandum

To: Operating Committee, OME, Interior Building
Washington 25, D. C.

From: Executive Officer, OME Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E 1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Enclosed are the Government's and Audit copies of Termination Agreement of subject contract, executed by the Operator. The remaining copies have been distributed in the usual manner.

S. Ricker

Attachments

BUREAU OF MINES
WASHINGTON, D.C.
NOV 10 10 48 AM '58

November 4, 1958
P.O. Box 4
Ely, Nevada

Mr. S. Ricker, Executive Officer
OME Field Team, Region II
U.S. Department of Interior
Office of Minerals Exploration
1605 Evans Avenue
Reno, Nevada

Dear Mr. Ricker:

Thank you for your letter of October 10, 1958, and for the OME information you enclosed.

Enclosed with this letter are the signed copies of the termination agreement.

Mr. Corder and myself wish to express our sincere appreciation for the assistance we recieved on the exploration program on our claims. We appreciate very much the courteous attention you showed us during the program.

Sincerely,

W.B.Kohlmoos

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1405 Evans Avenue
Reno, Nevada

Oct. 18, 1958

10/13 C 220
10/14 ~~229~~ 800
10/14 ~~Bauer~~ 700

Mr. William Brandt Kohlmoos
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos
Rainbow Group
Nye County, Nevada
Contract No. Idm-K 1168

Dear Mr. Kohlmoos:

Enclosed are the original and four copies of a Termination Agreement for the subject contract, signed by the Acting Director for the Government. Since all the work under Stage II was not completed, the contract should be mutually terminated. You have already submitted your final report so the execution of the agreement will close the account.

If you find the agreement satisfactory, you and your partner should sign all copies. The operator's copy should be retained by you and the original and other three copies should be returned to this office.

Enclosed are two copies of a reprint from the Federal Register of September 17, 1958, which explains the proposed regulations for the OME, the successor of DMEA. Sometime after October 17, when the final regulations become effective, we will send you the new application forms in the event that you wish to apply for Government exploration assistance at some future time.

We have appreciated your interest and splendid cooperation in the DMEA program.

Very truly yours,

S. Ricker
Executive Officer
OME Field Team, Region II

Attachments

Finance Office, Reg. II
GeoMavor
RMSmith
File
Chron

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/3/58	Knouse	700
10-3	Chambers	800
10/3	[illegible]	130
10/3	Johnson	110
3	[illegible]	100
10/6	[illegible]	220
		700

OCT 6 1958

Mr. Spangler Ricker
Executive Officer
OME Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ricker:

Enclosed are the original and four copies, with two extra copies for Field Team use, of a Termination Agreement for the subject contract, signed by the Acting Director. The agreement consists of one page. Since all of the work under Stage II was not completed, the contract should be mutually terminated.

If you and the Operator find the agreement satisfactory, it is ready for the Operator's signature. After the agreement is signed, please make the usual distribution of the document.

Please advise the Operator that OME is the successor agency to DMEA.

Sincerely yours,

George C. Selfridge
ACTING Chairman, Operating Committee

Enclosures

APPROVED:

Richard H. Mote
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

FLKnouse/gla
10-3-58
cc to: Director's R. File
Operating Committee
THKillsgaard, 5224
Mr. Knouse

8623

FLKnouse/gla
9-30-58

TERMINATION AGREEMENT

DRAFT

It is agreed this _____ day of _____, 1958, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, ~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~ hereinafter called the "Government," and William Brandt Kohlmoos and Ted Corder, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idn-E 1168, Docket No. DMEA- 4814 dated February 6, 1958, as amended, hereinafter called the "Contract," that:

1. Effective August 1, 1958, 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 agreed actual and fixed unit costs of the work performed prior to August 1, 1958.

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 respecting percentage royalty and liens to secure the payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayment, are hereby preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims and 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 _____
~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~
~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~
Director, Office of
Minerals Exploration

_____

By _____

Title _____

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

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DMEA
RECEIVED SEP 1958

DATE	INITIALS	CODE
9/24	C	220
		~~400~~
		700

Date September 22, 1958

DMEA Docket No. 4814
DMEA Contract No. Idm-E1168
Commodity Uranium
Name of Applicant William Brandt Kohlmoos, et al
Name of Property Rainbow and Cord Claims
Location of property Nye County, Nevada
Estimated cost of project

Memorandum

To: Frederick L. Knouse, Acting Director
Rare and Misc. Minerals Div., DMEA

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

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

1. Date of subject document: 9/15/58 2. Date received by reviewer: 9/22/58

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 meeting 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 consultation ☐
h. Approval ☐
i. Consult with Mr. _____ at _____ AEC Office

10. Remarks: (Use back of page if necessary) Recommend that a certificate of discovery not be issued.

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. 700	Com	9/25
2. ~~710~~		
3. ~~800~~		
4. 700		
5.		
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:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

Sept. 15, 1958

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9/23	[illegible]	130
9/24	C	220
9/30	Kuause	700

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E 1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Enclosed are three copies of our final report on subject contract by J. E. Carlson, Geological Survey, and Henry W. Jones, Bureau of Mines.

Roscoe Smith and I concur in the recommendation that a Certificate of Discovery is not justified.

S. Ricker

Attachments

FINAL E.T. REPORT

OME Reviewed by
~~DMEA~~ OPERATING COMMITTEE
9-23-58
(date)

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RECEIVED SEP 17 1958

DATE	INITIAL	CODE
9/28	HB	130
		220

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

FINAL REPORT

DMEA-4814, Contract Idm-E1168 (Uranium)
William B. Kohlmoos, et al.
Rainbow and Cord claims
Nye County, Nevada

Reviewed by
OME OPERATING COMMITTEE
9-23-58
(date)

by

H. W. Jones
U. S. Bureau of Mines

J. E. Carlson
U. S. Geological Survey

September 12, 1958

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5 . . . . . Section, Trench 2

INTRODUCTION

Summary:

The Rainbow No. 1 claim was explored by William B. Kohlmoos, P. O. Box 4, Ely, Nevada, and Ted Corder, 1329 Main Street, Susanville, California, partners, in cooperation with the Defense Minerals Exploration Administration, docket DMEA-4814, contract Idm-E1168 dated February 6, 1958.

The purpose of the project was to explore for uranium ore bodies which were inferred from radiometric assays in prospect pits and shafts.

Work under the program began April 25, 1958 and was completed before August 1, 1958. The contract and amendments authorized 60 hours of bulldozer trenching under Stage I, and the sinking of not more than two shafts, each not more than 25 feet deep, under contingent Stage II. Six hundred and fifty feet of trench was excavated and one 25-foot shaft was sunk on the best showings in one trench. The total allowable project cost was $4,740.00 of which $2,884.50 was expended, and the Government's share of the project cost at 75 percent is $2,163.38.

A final examination of the property was made August 7, 1958 by B. H. Sheahan, U. S. Bureau of Mines, and R. M. Smith, U.S. Geological Survey, accompanied by Mr. J. C. Perkins, the operator's representative. The operator's final report dated August 11, 1958 was received August 18, 1958. A Termination Agreement has not yet been signed.

We conclude that the uranium minerals are not directly associated with the fault zone disclosed by trenches and shaft, but are localized sub-surface deposits caused by descending uranium-bearing waters.

Recommendations:

A certification of discovery should not be made as the project did not lead to the discovery of a significant uranium ore body or to evidence that a commercial ore body exists on the property. The property was adequately explored and the grade of uranium-bearing material, as estimated by radiometric assays, is below that anticipated. Further Government participation is not warranted.

LOCATION AND ACCESSIBILITY

The area is not surveyed, but the Rainbow and Cord claims would probably be in sec. 3, T. 12 N., R. 45 E., M.D.B.&M., Nye County, Nevada, in the Northumberland mining district. They are on the summit and both flanks of the north-trending Toquima Range at an altitude of 8,000 to 8,500 feet (fig. 1).

The property is about 40 airline miles southeast of Austin, Nevada, and is reached by driving 12 miles east of Austin on U.S. Highway 50 to the junction with Nevada State Highway 8-A. Turn right on 8-A, an improved gravel road, and drive 29 miles across Great Smokey Valley and the Toquima Range into Moniter Valley and past the Moniter Valley ranch. Continue on the right road fork down Moniter Valley for 15.6 miles, then

6.4 miles west up Northumberland canyon to a large tailings pond. Drive around the pond and over the divide 3.0 miles via rough road to a small shaft and bulldozed area. The Rainbow No. 1 claim is about 1,200 feet east of this area. The property is accessible to passenger cars during summer months, but deep snow closes roads from December to May.

PROPERTY

The property consists of 19 unpatented lode claims held by right of location by William B. Kohlmoos and Ted Corder, partners. The following claims are in the contract area and are recorded at Nye County Courthouse, Tonopah, Nevada:

Claim name	Book	Page	Claim name	Book	Page
Rainbow No. 1	6	150	Rainbow No. 11	6	160
Rainbow No. 2	6	151	Rainbow No. 12	6	161
Rainbow No. 3	6	152	Rainbow No. 20	13	389
Rainbow No. 4	6	153	Cord	6	171
Rainbow No. 5	6	154	Cord No. 1	13	383
Rainbow No. 6	6	155	Cord No. 2	13	384
Rainbow No. 7	6	156	Cord No. 3	13	385
Rainbow No. 8	6	157	Cord No. 4	13	386
Rainbow No. 9	6	158	Cord No. 5	13	387
Rainbow No. 10	6	159			

The Rainbow No. 1 claim is explored by a 16-foot shaft, a 12-foot adit, four bulldozed trenches and a 25-foot shaft sunk in the floor of No. 4 trench. The four trenches and the 25-foot shaft were excavated in cooperation with DMEA. Additional shallow trenches were dug for assessment work on other claims in the group. There has been no production from the property.

GEOLOGY

Geologic Setting:

The Rainbow and Cord claims are in an area of generally high relief but sparse outcrops. The bedrock is chiefly clay shale with a few thin interbedded chert layers and cherty siliceous shale with minor amounts of interbedded clay shale. A few small altered granite dikes cut the sedimentary rocks and a small granite stock crops out approximately a mile north of the Cord claim (fig. 2). The sedimentary rocks have been tilted, locally folded, and intensely fractured. They are locally altered, probably by hydrothermal fluids that possibly altered the granitic dikes. A steep north-trending fault of considerable displacement is inferred at the unconformable contact of the two principal sedimentary rock types. It divides the prospected area (fig. 3) so that about half of it is underlain by clay shale on the west side of the fault and half is underlain by siliceous shale on the east side.

Both the clay shale and siliceous shale units cover extensive areas and each probably represents sedimentary beds several hundred feet thick. The siliceous shale unit may have been formed by extensive silicification of clay shale and may be, in part, equivalent to the clay shale beds west of the fault. Where exposed on the Rainbow No. 1 claim, the tan clay shale is highly contorted, but a generalized strike and dip of about N. 60° W. and 30° to 40° S. conforms with the attitude of beds

exposed in the Valley View claim to the west. Similar shales exposed on the Jane claims, a few hundred yards to the north, contain graptolites of probable Silurian age.

The north-trending fault contact cuts a west-trending ridge about 60 feet east of the prospect shaft and adit on the Rainbow No. 1 claim. East of the fault the bedrock is not exposed and the structure and lithology are not known in detail; however the float contains abundant fragments of thin-bedded siliceous shale with a coincident slope break on the ridge crest. Bedrock is not exposed on the ridge except in the prospect cuts, shafts, pits, and adits. A blanket of soil and colluvium covers the sub-soil bedrock to depths ranging from a few inches to a few feet. This uppermost bedrock is generally loose and weathered and grades into highly fractured, unweathered shale which locally contains uranium minerals.

Ore Deposits:

Yellow and greenish-yellow secondary uranium minerals occur as fracture coatings in clay shale on the Rainbow No. 1 claim. These minerals are abundant, visible, and associated with low abnormal radioactivity. The U. S. Atomic Energy Commission identified phosphuranylite as the most abundant mineral and meta-autunite in minor amounts. Samples taken by the applicant and the examiners indicate that the uranium is out of

equilibrium with its daughter products, of which there are considerably less than that required for equilibrium. Criteria for the identification of ore are poor owing to the low radioactivity and weak fluorescence of phosphuranylite. The grade of the ore cannot be determined without chemical analysis.

Low abnormal radioactivity of 0.1 milliroentgens per hour maximum is present in many of the discovery pits and prospects in the surrounding claims. The highest radioactivity is 1.5 mr/hr near the adit above trench 4 where visible secondary uranium minerals are locally abundant. In the adit and nearby cuts visible secondary uranium minerals coat fractures in a thin chert layer and clay shale adjacent to the chert, in a stratigraphic zone 6 inches to 1 foot thick. A sample of this material contained 0.11 percent eU_3O_8 and 0.19 percent cU_3O_8. It is the highest grade material found on the property and was discovered by the operator in and near his prospect adit.

Abundant fracture coatings of phosphuranylite occur in a contorted layer of clay shale one-and one-half to two feet thick in trench 4. The stratigraphic zone in which the ore minerals are most abundant is not noticeably different from the beds above or below it; however the mineralized area appears to cross the bedding planes to a greater extent and to occur in stratigraphically lower beds than elsewhere on the claims. Although the radioactivity of this zone is above background (0.03 mr/hr) it averages

only 0.5 mr/hr. Visual estimates indicate that from 0.25 to 1 percent of the material in the zone is phosphuranylite but samples contain 0.22 and 0.13 percent eU_3O_8, and 0.32 and 0.19 percent cU_3O_8 respectively. Allowing for contortions of the sedimentary beds, the zone is exposed for a length of as much as 30 feet. It does not continue downward along the limb of the small fold, as inferred before the DMEA shaft was sunk (fig. 3). This shaft showed the fold to flatten and the radiometric readings to drop to 0.08 mr/hr maximum at a depth of 10 feet, below which only background readings were obtained.

Low abnormal radioactivity occurs in several pits west of the Rainbow No. 1 shaft in a west-trending line near the ridge crest. Most of these pits are on the Valley View claim owned by "Rocky" Wilson and include Wilson's Valley View shaft where abundant fluorescence apparently is associated with uraniferous hyalite in chert beds. The line of pits follows the trace of the bedding as projected from scattered bedrock exposures. It is possible that ore occurs in one or more stratigraphic zones along this trace, but no ore-grade material is exposed. The line of pits also roughly follows the projection of an altered granite dike exposed in the Valley View adit. Although the dike is not exposed in cuts near the Valley View shaft, nor farther east along the ridge crest, the projected dike or the fracture along which it was intruded is possibly related to the line of anomalies defined by the pits.

The disequilibrium between uranium and its daughter products indicates that the visible uranium minerals were deposited in the geologically recent past. Apparent control by stratigraphic zones near the Rainbow No. 1 adit is possibly a local feature in this area where the bedding is nearly parallel to the topographic surface. The mineralizing solutions are possibly related to recent hot spring activity as evidenced by small deposits of tufa nearby. The showings possibly represent a reworked primary deposit which originally consisted of a large volume of low-grade material or a relatively small volume of high-grade material. Either of these would be a significant exploration target if evidence could be found to indicate its location, size, and grade.

THE PROJECT

The project was justified by indicated reserves of 150 tons estimated to contain 0.20 percent U_3O_8 and by one or more covered ore bodies of significant size and grade inferred on the Rainbow No. 1 claim.

The applicant submitted an exploration program which consisted of bulldozing, drilling, and possible drifting and shaft sinking at a total cost of $20,000; however the target did not warrant a program of this size and a modest program costing $4,740.00 was approved.

The contract authorized a two-stage program which consisted of bulldozing not more than 500 feet of trench and sinking not more than two 25-foot shafts. The second stage was contingent upon the first and subject to prior approval by the Government.

Stage I work began April 25, 1958 and was completed about May 25, 1958. Four trenches were excavated a total length of 650 feet and a maximum depth of 25 feet at selected sites. The location of trench 4 was shifted a short distance in order to excavate below the favorable showings near the adit. This trench disclosed small amounts of uranium minerals in folded clay shale below the adit. Other cuts failed to uncover uranium minerals in quantity enough to justify further work. Although radiometric readings did not indicate commercial ore in trench 4, the down-dipping flank of a small fold below the adit possibly contained ore at depth. A 25-foot shaft was sunk on this target but no ore was cut. The walls of the shaft contained no visible uranium minerals. Shaft sinking was started July 7, 1958 and completed before August 1, 1958.

Amendment No. 1, dated March 15, 1958, authorized the use of a D-7 bulldozer for trenching instead of the specified D-8. The operator excavated more trench footage than was authorized in the contract. However, as he had not used more than his allotted 60 hours of bulldozer time, Amendment No. 2, dated July 16, 1958, authorized the extra footage at no additional cost to the Government.

The DMEA project, except for short delays caused by the bulldozer's slow progress through silicified shale, was performed without difficulty. The work was competently done by both the operator and the contractor, and the operator's monthly and final reports were submitted on schedule.

Reserves:

A few tons of measured ore was uncovered by trenches 2 and 4 (figs. 4 and 5) that averages less than 0.15 percent U_3O_8. Indicated ore near the adit in trench 4 is less than the 150 tons originally estimated because some of the material was removed by the bulldozer. The grade of this ore is probably less than 0.20 percent U_3O_8. A few tons of sub-marginal ore can probably be inferred in areas of low abnormal radioactivity on the Rainbow No. 1 claim. Trenches and shaft proved that the ore body does not continue downward and is confined to beds a few feet below the ground surface on the Rainbow No. 1 claim and probably on the other claims in the group.

Sampling:

Eleven samples of the most highly radioactive material were taken during interim and final examinations. The locations of these samples are shown on figures 2 and 3 and assays are as follows:

Sample No.	Width, feet	Grade, percent eU_3O_8	Grade, percent cU_3O_8	Description
593	6.0	0.03	----	northwest end, trench 2
594	6.0	0.02	----	east continuation of above
595	8.0	0.02	----	center, trench 1
596	6.0	0.04	----	40 ft. east of adit portal
600	6.0	0.03	0.08	south end, trench 1
601	5.0	0.05	0.11	northwest end, trench 2
602	12.0	0.06	0.12	west end, trench 4
603	5.0-vert.	0.09	0.15	east end, north wall, trench 4
607	1.5-vert.	0.15	----	north wall, bottom, trench 4
608	2.0-vert.	0.09	----	continuation of above
S-747	1.0-vert.	0.019	----	slightly radioactive area, 12ft. below shaft collar

Six samples of radioactive material taken during the application examination are shown in figures 3 and 4 and assays are as follows:

Sample No.	Width, feet	Grade, percent eU3O8	cU3O8	Grade, Percent V_2O_5	Cu	P
520	2.6	0.11	0.19	0.09	0.03	
521	3.0	0.22	0.32	0.10	0.02	
522	1.5	0.03	0.09	0.09	0.02	
523	4.0-vert.	0.01	0.09	0.14	0.03	
524	4.0-vert.	0.01	0.07	0.11	0.01	
521-A	specimen	0.13	0.18	0.08	0.07	0.46

The north wall of trench 4 was sampled by the operator over a 54-foot length. Six vertical samples from top to bottom of the trench and three horizontal samples each about 50 feet long were taken. These samples were straight channel cuts and chemical assays averaged 0.05 percent U_3O_8.

Expenditures:

Total approved cost of the project $4,740.00

Stage I

Bulldozing, 60 hrs. @ $15.00/hr.	$900.00
Moving tractor to and from area	132.00
Supervision, 1/2 mo. @ $600.00/mo. . . .	300.00
Assaying 13 samples @ $5.00/ea.	65.00
Total cost of Stage I	$1,397.00

Stage II

Shaft sinking, 1-1/2 compartment 4 ft. X 7 ft. rock section, 25 ft. @ $54.42/ft.	$1,360.50
Shaft timbering, 10 ft. @ $9.70/ft. . . .	97.00
Assaying 6 samples @ $5.00/ea.	30.00
Total cost of Stage II	$1,487.50

Total cost of the project	$2,884.50
Government's share of cost at 75 percent	2,163.38
Government's share unexpended	1,391.63
Equipment purchased under contract	None

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4814, Idm-E1168
(Uranium)

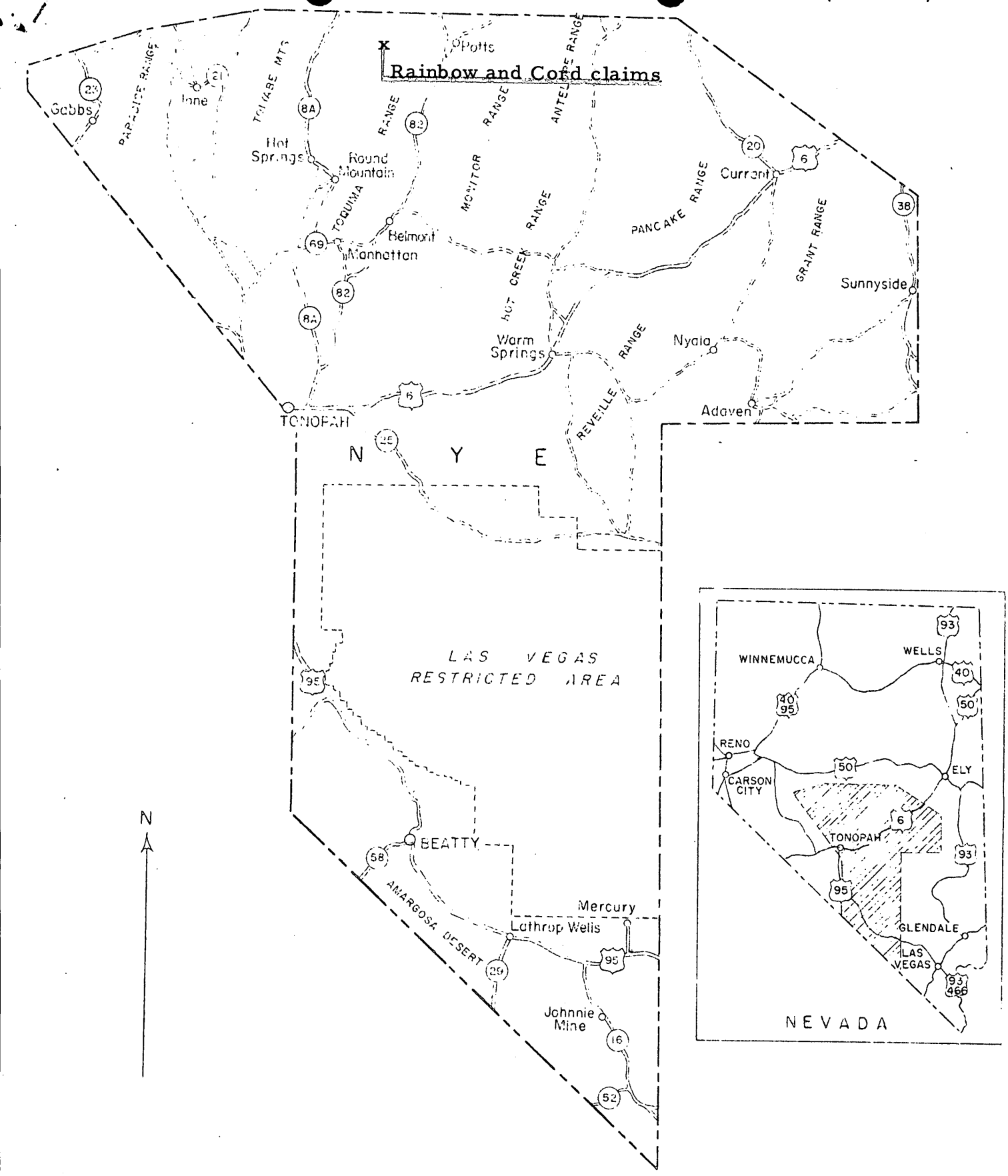

Figure 1 INDEX MAP OF NYE COUNTY, NEVADA

0 25 50 75 Miles

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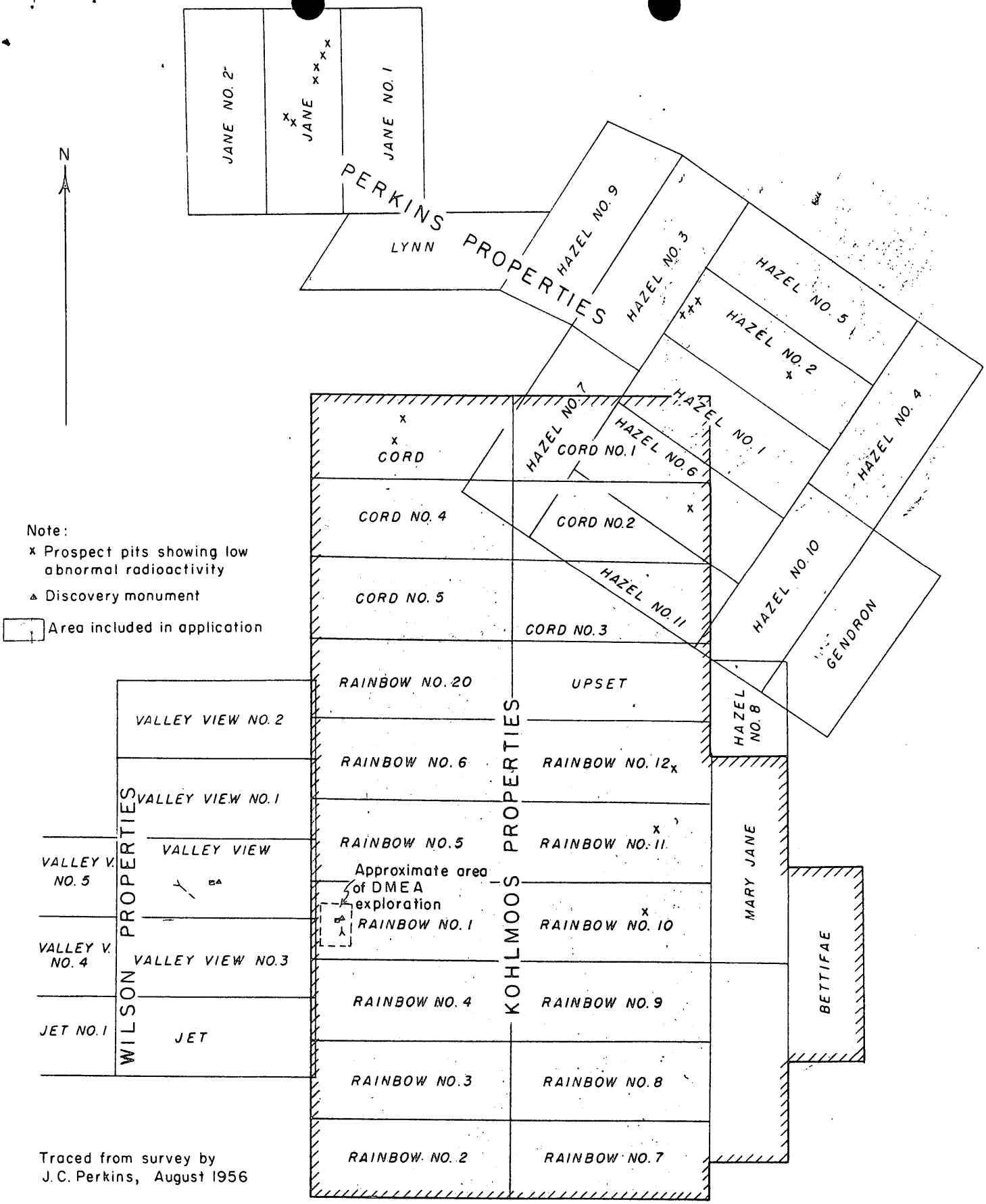

Figure 2. CLAIM MAP, RAINBOW AND CORD CLAIMS, NYE COUNTY, NEVADA

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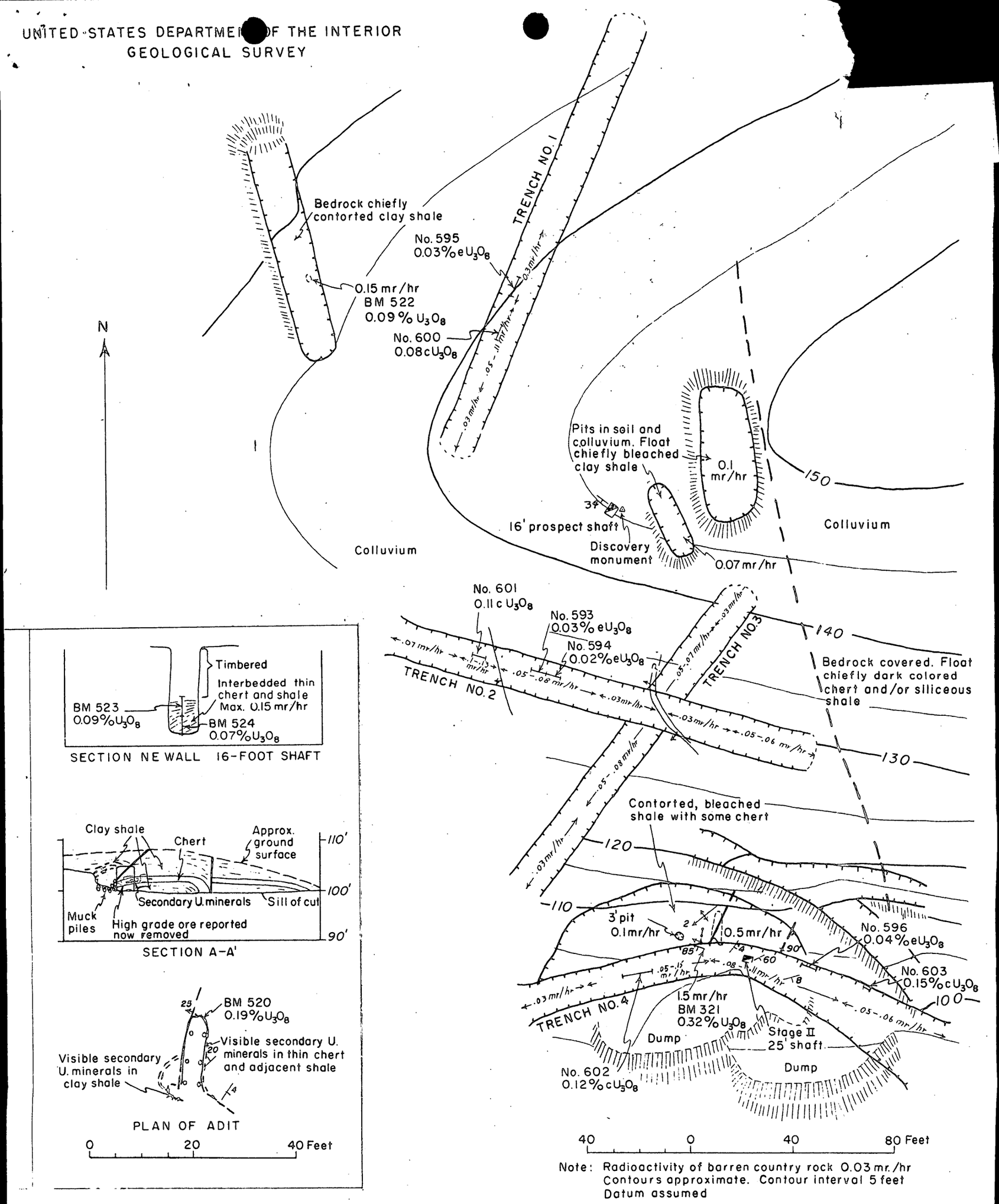
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Note: Radioactivity of barren country rock 0.03 mr./hr
Contours approximate. Contour interval 5 feet
Datum assumed

Figure 3. MAPS AND SECTIONS OF WORKINGS, RAINBOW NO. 1 CLAIM
NYE COUNTY, NEVADA

DMEA 4814
(URANIUM)
idm E-1168

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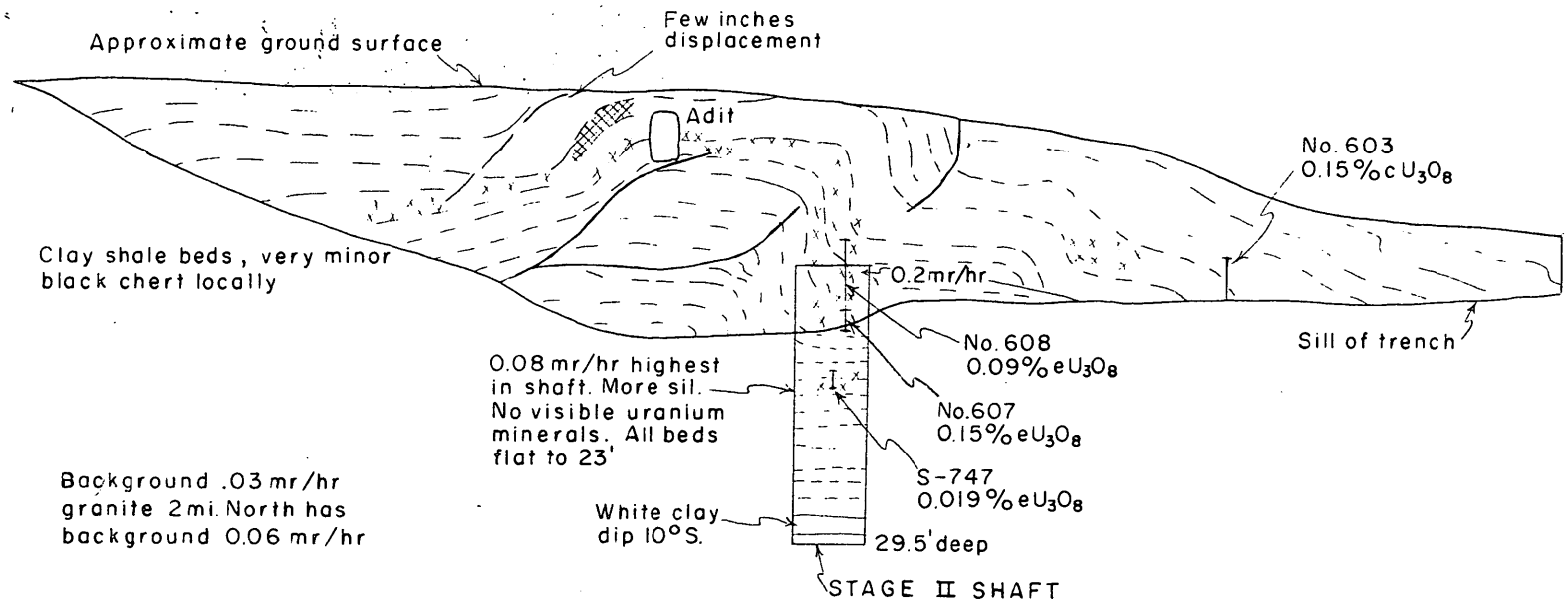
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4814
(URANIUM)
Idm E-1168



Profile and geology by R. H. Campbell and H. G. Jones 5/27/58
R.M. Smith 8/7/58

Figure 4. SKETCH SECTION ALONG N. WALL OF TRENCH NO. 4, RAINBOW NO. 1 CLAIM
NYE COUNTY, NEVADA

0 20 40 60 Feet

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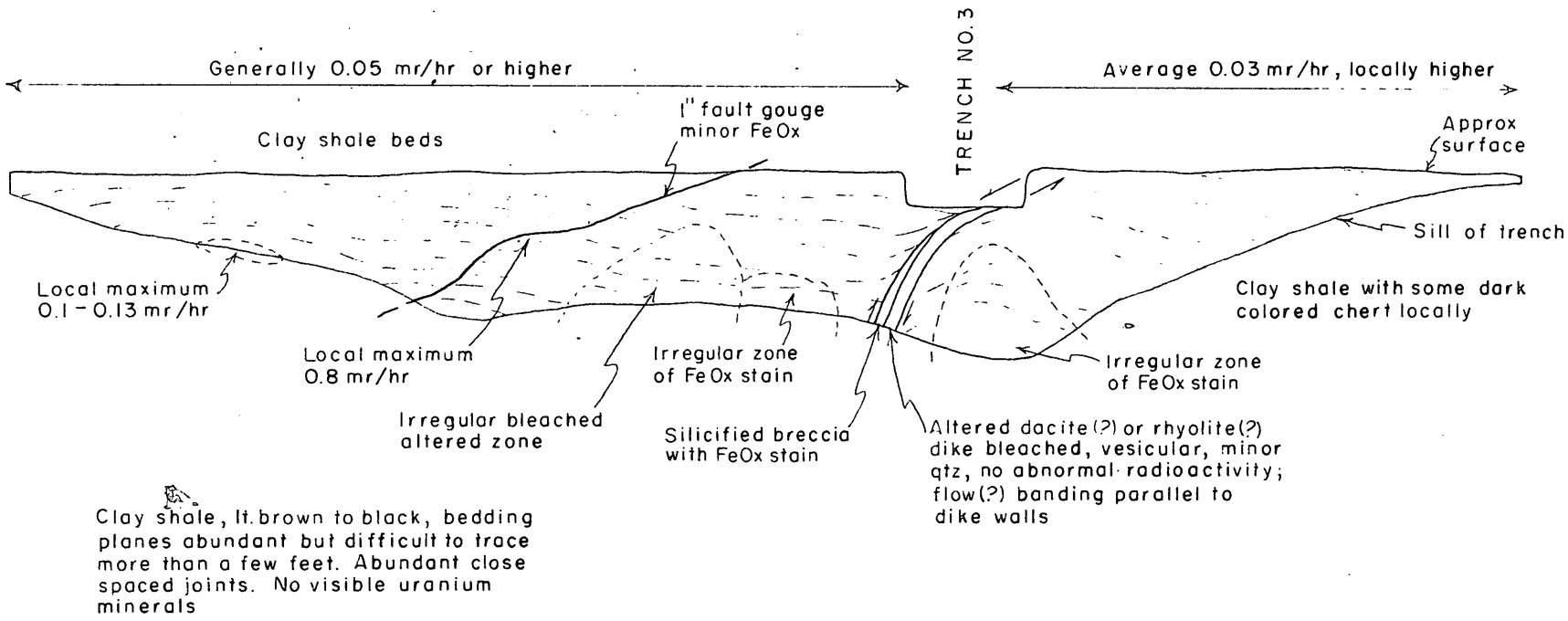
DATE	INITIALS	CODE

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4814
(URANIUM)
ldm E-1168



Profile and geology by
R.H. Campbell and H.W. Jones
5/27/58

Figure 5. SKETCH SECTION ALONG NE WALL OF TRENCH NO. 2, RAINBOW NO. 1 CLAIM
NYE COUNTY, NEVADA

0 20 40 60 Feet

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DATE	INITIALS	CODE

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RECEIVED SEP 15 1958

DATE	INITIALS	CODE
9/15	Kasuse	700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

Sept. 12, 1958

Memorandum

To: Operating Comittee, DMEA, Interior Building

From: Executive Officer, DMEA Field Team, Region II

Subject: Pending Field Team Final Reports
(Your letter, September 2, 1958)

Final reports on completed projects will be submitted about as follows:

Name	Docket No.	Contract No.	Date
Bristol Silver Mines Co.	DMEA-4097	Idm-E 992	10/30/58
New Idria Min. & Chem. Co.	DMEA-2478	Idm-E 369	9/17/58
Kasuse Wm. B. Kohlmoos, et al.	DMEA-4814	Idm-E 1168	9/12/58 ✓
Sonoma Quicksilver Mines, Inc.	DMEA-4122	Idm-E 959	10/20/58

S. Richer

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/10	G. McCarthy	800
9/9	Talbitt	800
9/11	C	220
"	Krause	700

SEP 10 1958

Mr. George Mavor
DMEA Auditor
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos and Ted Corder
a partnership
Contract No. Idm-E1168

Dear Mr. Mavor:

Your Report of Review on the above referenced contract is acceptable and normal distribution is authorized.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

GMcCarthy/GMcC
September 10, 1958

cc: Docket
Admr. Reading File
Mr. Chambers

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1605 Evans Avenue
Reno, Nevada

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DATE	INITIALS	CODE
8/21	H. G.	225
8/25	C.E.E.	800
8/25	Krause	700

August 19, 1958

Memorandum

To: Operating Committee, DMEA, Washington, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E-1168

Enclosed are three copies of Operator's final report on subject contract. We recommend that the report be accepted.

Our report, not yet completed, will not recommend certification.

S. Ricker

Attachments

Copy to:

Regional Office, Reg. II
R. M. Smith
H. Jones

July 11, 1958 Docket No. DMEA 4814 Contract No. Idm-E 1168
Operator's Name: William B. Kohlmoos et al Minerals: Uranium
Address: P.O. Box 4, Ely, Nevada

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FINAL REPORT - Geological Evaluation.

Under the terms of the contract, four bulldozer cuts, with an aggregate total of 650 feet of trenching, were made. Depth of the cuts varied from three to 26 (+ or -) feet. A fault zone running generally NNW was disclosed. The fault was apparent in each of the cuts. Running parallel and adjacent to the fault is a dike composed of an altered igneous material. Adjacent to the dike, and extending westward for ten feet, the ground rock is a reddish color with iron stain. As depth increases, both in the bulldozer cuts, and in the 25-foot shaft authorized under stage II of the contract, the percentage of U_3O_8 decreases. In the southernmost cut the average assay of seven samples taken from the north wall of the cut, ran .053% U_3O_8. The floor of the cut ran .020, and a vertical chip sample of the entire east wall of the shaft, which is located in this cut, averaged .015%. Horizontal chip samples across the bottom of the south wall of the shaft ran .005%, .010%, and .003%. (The bottom of the shaft is approximately 45 feet below the former surface level.)

From the above, it might appear that the source of the U_3O_8 would be near the fault and dike, and at a point north of the shaft. It is possible, by speculation, to conceive that the mineralizing solutions came up along the dike at a point about 100 feet NNW of the shaft, and fanned out as they approached the surface.

The bulldozer cuts and the shaft disclosed varying types of sedimentary beds, generally two to twelve inches thick, and usually laying in a more or less horizontal position. In several places, and adjacent to the dike, the beds are highly folded and distorted. The last several feet in the bottom of the shaft disclosed a type of clay not appearing in any of the other workings in the area. The clay is almost white, light, and of a fine texture. It has a slightly soapy feel. The sediments vary from clay to a silicified, hard, black shale in the other cuts.

In summary, the work performed under the contract did not produce the desired results. No commercial ore was discovered, and no indications of a possible ore body were evidenced. However, the work did reveal the general structure of the area, and also the fault and dike. Also, by process of elimination, the location of the possible source of the mineralization was reduced to a smaller area.

Summary of Costs:

Stage I -	Bulldozer cuts:	$1,032	Stage II -	Sink Shaft 25' :	$1,457.50
	Supervision :	300		Assays :	30.00
	Assays :	65			
		$1,397.00			$1,487.50

TOTAL COSTS: Stage I and Stage II: $2,884.50

CPR'S FINAL REPORT

Final Report (cont.) ASSAY DATA

Cut D-D' - North wall:

Entire length near top of wall, horizont.	:	.040% U_3O_8
" " " center "	:	.030
" " " bottom "	:	.070
Vert. chip, west end (wall)	:	.070
" " 10' easterly	:	.060
" " /~~8'~~/ 8' "	:	.040
" " center, under tunnel	:	.070
" " 8' easterly from tunnel	:	.050
" " eastern end of the north wall	:	.050

Cut D - D' - chip along entire length of bottom of cut : .020

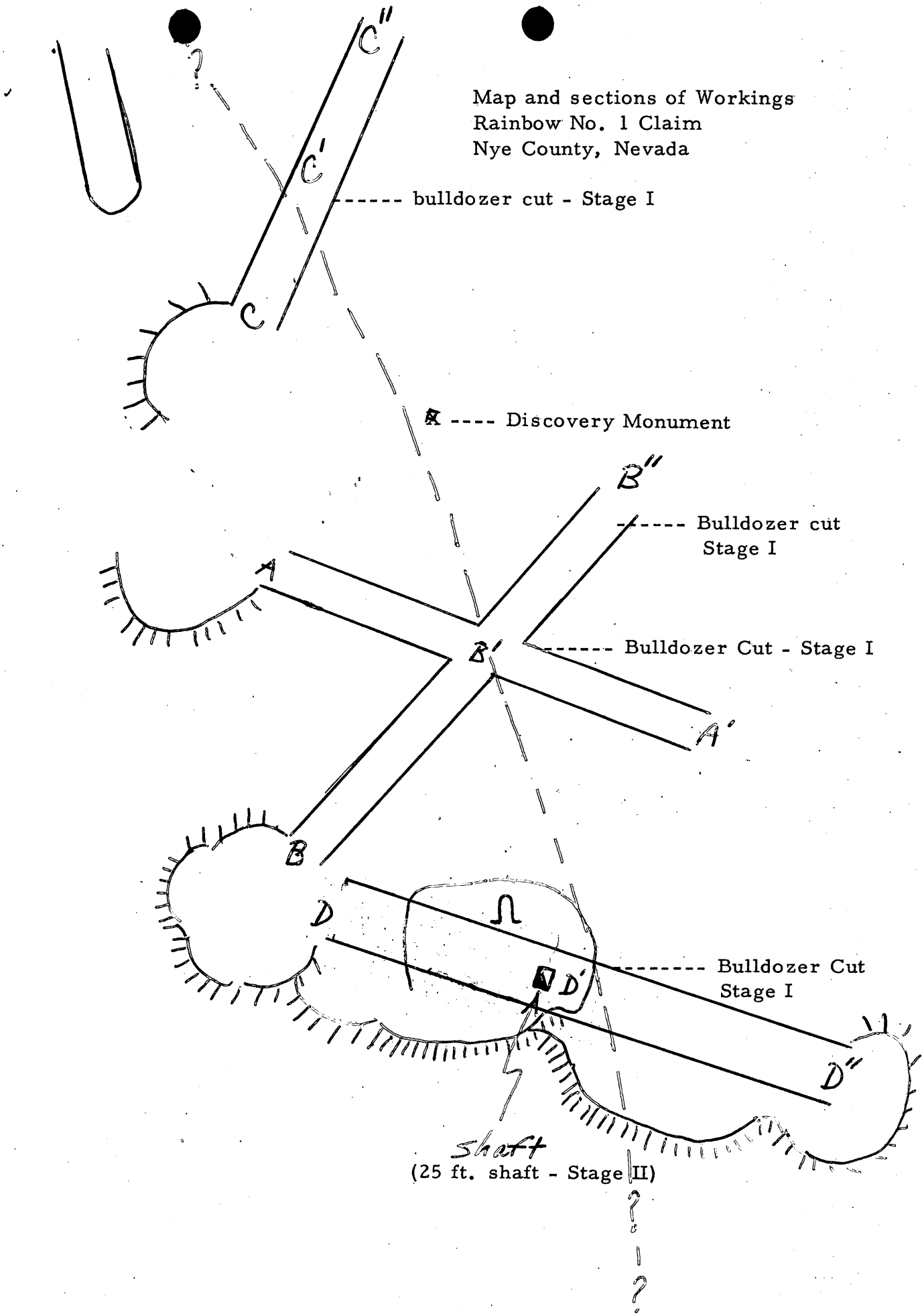
Cut A - A' - Chip along centerline of bottom of cut between points A and B' .030

Cut C - C' - Chip across bottom, near center	:	.060
- ditto -	:	.040

Shaft:

Vertical chip - entire east wall from bottom of lagging to bottom of shaft	:	.015
Horizontal 6" chip across south wall, 2 ft. up from bottom of shaft	:	.003
Rust-red clay, 3 ft. up from bottom, on south wall. Entire red area	:	.005
1-ft. chip across south wall, 5 ft. up from bottom of shaft. (horizontal)	:	.010
3-ft. horizontal chip across east wall, 2 ft. below bottom of lagging	:	.013
6" horizontal chip across bottom of east wall, from 6 to 12" above bottom	:	.005

The average of all samples taken is 0.036% U_3O_8


Map and sections of Workings
Rainbow No. 1 Claim
Nye County, Nevada
bulldozer cut - Stage I
C''
C'
C
Discovery Monument
B''
Bulldozer cut
Stage I
A
B'
Bulldozer Cut - Stage I
A'
B
D
Bulldozer Cut
Stage I
D'
D''
Shaft
(25 ft. shaft - Stage II)
?
?

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date Aug. 15, 1958

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Wash., D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 20 1958

DATE	INITIALS	CODE
8/20/58	H.g.	525
21	[illegible]	100
"	[illegible]	110
8/25	[illegible]	800
8/ "	[illegible]	700

Attached are three copies of Interim Report on

Docket No. DMEA-4814

Contract No. Idm-E 1168

Commodity Uranium

Operator William Brandt Kohlmoos, et al.

Property Rainbow and Cord Claims

By Benjamin H. Sheahan,
mining engineer

Dated Aug. 15, 1958

S. Ricker

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 20 1958

DATE	INITIALS	CODE

INTERIM REPORT

August 15, 1958

Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

An inspection of the exploration was made August 7, 1958 by B. H. Sheahan, Bureau of Mines, and R. M. Smith, Geological Survey, accompanied by Mr. J. C. Perkins, a resident of Northumberland, Nevada.

The property is idle and all equipment has been removed.

Work completed, and expenditures:

Stage I Trenching surface

Bulldozer - 60 hrs. with D-7 at $15./hr. Four trenches - aggregate amount 650 ft.	$900.00
Moving tractor to and from project	132.00
Assaying 13 samples U_3O_8 at $5.00	65.00
Supervision $\frac{1}{2}$ month at $600./mo.	300.00
Total Stage I	$1,397.00

Stage II Shaft sinking - $1\frac{1}{2}$ compartment 4 ft.x7 ft. rock section

25 ft. at $54.42/ft. authorized (29.5 ft. from collar to bottom of shaft)	$1,360.50

The operator's monthly report and voucher for the month of July, 1958 has not been received, nor has his final report on the project.

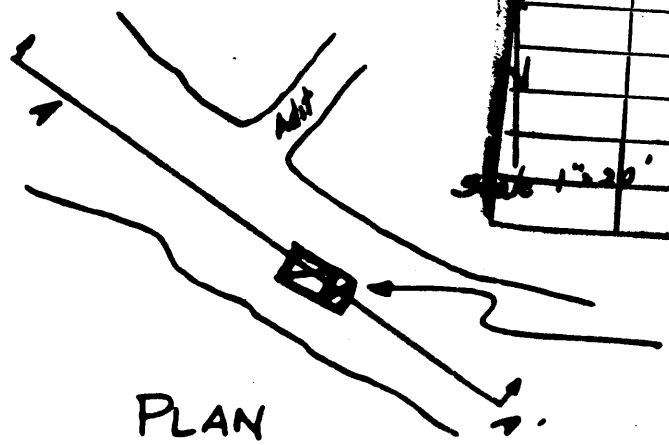
Shaft sinking under Stage II was evidently started early in July and was completed early in August, 1958. The collar of the shaft is a few feet above the bottom of the trench. Recent work was mapped, checked with a Geiger counter, and one sample was taken of siliceous mudstone (Sample No. S-747), a one-foot vertical channel sample of the most radioactive material found in the shaft showed only 0.019 percent U_3O_8 radiometrically.

Conclusions

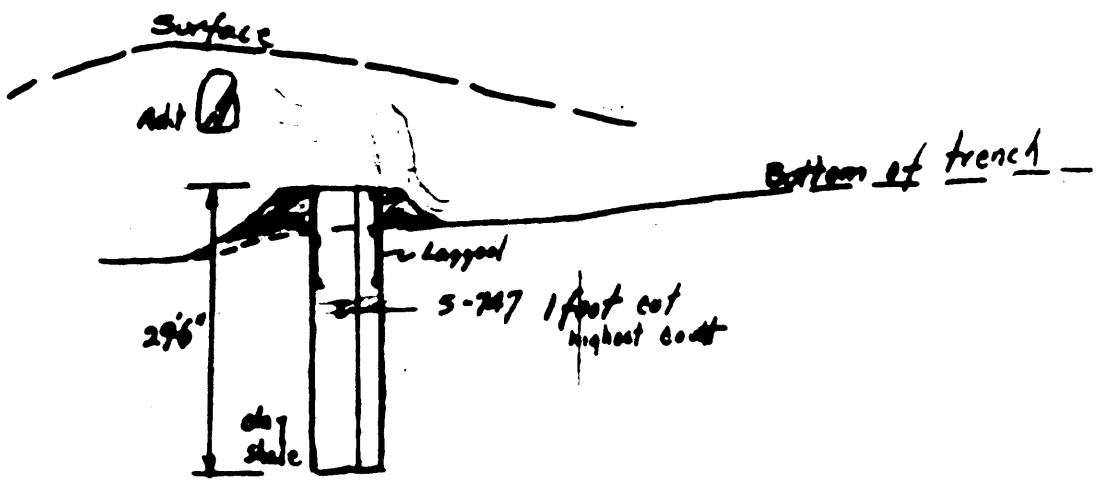
No further exploration work is warranted and certification of a discovery is not justified.

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 20 1958

DATE	INITIALS	CODE



PLAN



SECTION A-A,

Note
Background Count 0.02 Ma/hr
Highest count 0.20 Ma/hr

SKETCH MAP
Kohlmoos et al- DMEA 4814 (U3O8)
Contract Idm E 1168 -
B.H. Sheahan - Aug. 7, 1958

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. 110	[illegible]	9/22
2. 700 Kramer	[illegible]	9/22
3.		
4.		
5.		
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:

July

INT.-DUP. SEC., WASH., D.C. M25803

IF-10f (Rev.)
(Jul 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED SEP 19 1958 D.M.E.A.

Month of July, 1958 Docket No. DMEA 4314 Contract No. Idm-E 1168
Operator's Name William B. Kohlmoos, et al. Minerals Uranium
Address P.O. Box 4, Ely, Nevada
Contract Amount, $4,740.00 Government Participation: 75 % Amount, $3,555.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing		900.00	900.00			
Crosscutting Hoist bulldozer		132.00	132.00			
Drifting Sink shaft	1,360.50	none	1,360.50			
Timbering shaft	97.00	none	97.00			
(2) Labor and Supervision:						
Labor						
Supervision		300.00	300.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	30.00	65.00	95.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1,487.50	1,397.00	2,884.50			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date August 8, 1958 Payee William B. Kohlmoos
William B. Kohlmoos
Per Self Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$1115 63

Signature [illegible] Mining Officer
(Authorized Certifying Officer)
Date SEP 15 1958 Vou. No. SF-DMEA-6

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm E-1168 in accordance with the terms of the contract.

Signature Henry W. Jones Title Mining Engineer Date August 18, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date 8/19/58

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

n MF-104A
pril 1952).

Budget Bureau No. 42-R1151.2

RECEIVED SEP 19 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1958 Docket No. DMEA 4814 Contract No. Ism-5 1168
Operator's Name William B. Kohlmann, et al. Minerals Uranium
Address P.O. Box 4, Ely, Nevada

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts Sinking	ft.	1,320.50	25	1,320.50	25	54.42	50	54.42
Winzes Shaft Timber	ft.	97.00	10	97.00	10	9.70	50	9.70
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching Bulldozer	hr			900.00	60	15.00	60	15.00
Test Pits Haul Bulldozer	job			132.00	1	132.00	1	132.00
Roads and Trails Samples	1	30.00	6	95.00	19	5.00	40	5.00
Supervision	job			300.00	1	300.00	1	300.00
Total Distributed Costs		1,487.50		2,884.50				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		1487.50		2,884.50		(rounded)		4,740.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date August 8, 1958 Operator William B. Kohlmann
William B. Kohlmann
Per Self Title Partner

Remarks: This concludes the work authorized by the contract.

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

(Instructions on reverse)

(For Government use only)

Henry W. Jones

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Month: July, 1958 Docket No.: DMEA 4814 Contract No.: Idm-E 1168
Operator's Name: William Brandt Kohlmoos et al Minerals: Uranium
Address: P.O. Box 4, Ely, Nevada

NARRATIVE REPORT ON WORK PROGRESS

During the month of July, a 25 foot shaft was sunk at the location approved by the government engineer. (Point D' in cut D - D" on map accompanying May report).

In sinking the shaft, a series of sedimentary beds of varying thinkness and type was encountered. The sediments varied from a black, hard, silicified shale, to a fine, light clay of very light weight, and almost white in color. A bed of reddish, iron-stained clay was also encountered. Except for the iron stain, very little mineralization was evident. Ten feet of timbering was necessary.

Chemical assays ran as follows:

Sample Number	Description of location	Chemical analysis for U308 %
1	Vertical chip - entire east wall from bottom of lagging to bottom of shaft.	.015
2	Horizontal 6" chip across south wall, 2 ft. up from bottom of shaft. (Dark Brown)	.003
3	Rust red clay, 3 ft. up from bottom, on south wall- entire red ~~a~~area.	.005
4	1-ft. chip across south wall ((horizontal) 5 teet up from bottome of shaft.	.010
5	3-ft. horizontal chip across east wall, 2 feet below bottom of lagging.	.013
6	6" horizontal chip across bottom of east wall, from 6" to 12" above bottome of shaft.	.005

The absence of any ore in the shaft would seem to indicate that the source of the mineralization noted in the cut above the shaft site is possibly at a point north of the shaft.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

July 31, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos
Rainbow Group
Nye County, Nevada
Contract No. Idm-E 1168

Enclosed are the Government's and Audit copies of Amendment No. 2 to subject contract, executed by the operator. The remaining copies have been distributed in the usual manner.

Attached is a copy of letter from Ted Corder giving W. B. Kohlmoos authority to sign for him.

S. Ricker

Attachments

ORIGINAL FILE COPY
DMEA
4 1958
8/5 H. G.
8/5 J.C. 225
700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

July 21, 1958

7/23	C	220
7/23	CWO	800
7/24	~~[illegible]~~	700

Mr. William Brandt Kohlmoos
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos
Rainbow Group
Nye County, Nevada
Contract No. Idm-E 1168

Dear Mr. Kohlmoos:

In order to reconcile the footage of trenching with the cost per hour of bulldozing an amandment to subject contract is required.

Enclosed are the original and four copies of Amendment No. 2, signed by the Administrator for the Government. Will you please sign all copies, retain the "Operator's copy," and return the original and remaining three copies to this office?

We are pleased to learn that you have started the winze and hope you encounter some high-grade.

Very truly yours,

S. RICKER

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments
SRicker:ft
cc: Opr. Com., DMEA, Wash., D. C.
Finance Office, Reg. II
GeoMayor
RMSmith File Chron

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7-15	Krause	700
7-16	Martin	820
7/16	Chambers	800
"	Johnson	110
"	Whitteley	100
		340
7/17	H.G.	220
		700

JUL 16 1958

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ricker:

As recommended in your memorandum, dated July 2, 1958, there are enclosed the original and four copies (with two extra copies) of Amendment No. 2 to the subject contract, signed by the Administrator. The amendment consists of one page.

If you and the Operator find the amendment satisfactory, it is ready for the Operator's signature. After the amendment is signed, please make the usual distribution of the document.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (HB)

Enclosures

APPROVED:

Frank D. Lamb (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

FLKnouse/izm 7-15-58
cc: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

86

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/9	Knouse	700
		140

C

INTERIOR DEPT.
JUL 9 - 1958

July 9, 1958

Memorandum SOLICITOR

To: Associate Solicitor, Division of Mineral Resources

From: F. L. Knouse, Acting Director
Division of Rare and Miscellaneous Metals

Subject: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William Brandt Kohlmoos, et. al.
Rainbow and Cord Claims
Nye County, Nevada

Amendment No. 2

Please prepare Amendment No. 2 to the subject contract that provides the following changes:

1. The effective date of the amendment to be February 6, 1958.

2. In Exhibit "A," under Description of the Work, Stage I, Item 2, in the first paragraph line 2, change "100 feet" to read "250 feet," and under Item 2, 2nd paragraph Line 2, change "500 feet" to read "650 feet."

Also under Estimated Cost of the Project, Stage I Category (1) Independent Contracts, second line paragraph 1, change the figure "500" to read "650."

FLKnouse/izm 7-9-58
cc: Mr. Knouse

F. L. Knouse

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED 7 1958
DATE
7/7 C 220
130
7/9 FLK 700

July 2, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

Reference is made to your letter of June 13, 1958 regarding our Interim Inspection Report of June 3, 1958 on subject contract.

Would you please prepare an amendment to the contract allowing 650 feet of trenching? The 150 feet over the allowed 500 feet were done at the suggestion of the Government to more completely explore the surface before approving any of the work under Stage II. The fact that the contract allowed only 500 feet was inadvertently overlooked as the contract allowed 60 hours of bulldozing at $15. per hour, or $900. That amount was not exceeded and permitted the extra 150 feet of necessary trenching at no additional cost owing to the fact that the bulldozing was more efficiently done than estimated.

?

S. Ricker

Form M[illegible]-1[illegible] (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June 0 1[illegible] Docket No. DMEA Id-[illegible] 1160 Contract No. [illegible]
Operator's Name William Brandt Kohlhoss P.O. Box [illegible], [illegible], Nevada Minerals Uranium
Address
Contract Amount, $ 4,7[illegible]0.00 Government Participation: 75 % Amount, $ 3,[illegible].00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	NONE	1,397.00	1,397.00			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date May 9, 1[illegible] *Payee William Brandt Kohlhoss
[illegible] Portnoy

Per _____ Title _____

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ — 0 —

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. _____
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E1168 in accordance with the terms of the contract.

Signature Henry W. Jones Title Mining Engineer Date July 14, 1958

Henry W. Jones

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S. Ricker Title Executive Officer Date July 14, 1958

S. Ricker

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1950 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts [illegible]	ft.				WSK (Sale)	[illegible]	50	2,722.00
Winze timbering	ft.					9.70	50	485.00
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching bulldozer	hr.			900.00	60	15.00	60	900.00
Test Pits [illegible]	job			132.00	1	132.00	1	132.00
Roads and Trails [illegible]	1			65.00	13	5.00	40	200.00
Supervision	job			300.00	1	300.00	1	300.00
Total Distributed Costs				1,397.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs				1,397.00		([illegible])		4,720.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 9, 1950 Operator William Brandt Kohlwood
[illegible]
Per [illegible] Title [illegible]

Remarks: No work performed in June, 1950.

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

(Instructions on reverse)

(For Government use only)

Henry W. Jones

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Month June, 1958 Docket No. [illegible] Contract No. [illegible]
Operator's Name: [illegible] Branch Railway, et al. Lessor: [illegible]
Address: R.D. Box 4, Ely, Nevada

MONTHLY REPORT OF WORK PERFORMED

No work was performed on the property during the month of June, 1958, because the party who has undertaken to do the work has been exploring prior conditions.

It is planned that work on the shaft will commence July 1, 1958.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/12/58	Knouse	700
"	Ellis	700
6-13	Chamberlin	800
6/13	[illegible]	130
"	Johnson	110
"	Bertendorf	100
6/16	[illegible]	220
		700

JUN 13 1958

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ricker:

We note in the Interim Inspection Report for the subject project, dated June 5, 1958, that 650 feet of trenching were completed by the Operator and that the allotted 60 hours of dozing time were used. Since a maximum of 500 feet of trenching was provided for in the contract, before the Government can contribute to the cost for the additional 150 feet of trenching an amendment is required to allow this work. It is not clear in the report if (1) this additional work was done at the Operator's expense, or (2) if it was done at the request of the Government.

Please furnish your recommendations on this question.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

FLKnouse/gla
6-12-58

cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
Contract Adm. & Audit Div.
FLKnouse

8623

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date June 11, 1958

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Wash., D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 13 1958

DATE		CODE
6/13	H.G.	100
16	Com	110
6/16	[illegible]	800
6/17	~~[illegible]~~	700

Attached are three copies of Interim Report on

Docket No. DMEA-4814 (Uranium)

Contract No. Idm-E 1168

Commodity Uranium

Operator William B. Kohlmoos

Property Rainbow and Cord Claims

By R. H. Campbell, U.S.G.S.

Dated June 9, 1958

S Ricker

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 13 1958
DATE | INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Mineral Deposits Branch
4 HOMEWOOD PLACE
MENLO PARK, CALIFORNIA

June 9, 1958

INTERIM REPORT

To: DMEA Field Team, Region II

From: R. H. Campbell, U. S. Geological Survey

Subject: DMEA-4814 (Uranium)
William B. Kohlmoos
Rainbow and Cord claims
Nye County, Nevada
Contract Idm-E1168

An interim inspection of the property was made on May 27, 1958 by H. W. Jones, U. S. Bureau of Mines, and R. H. Campbell, U. S. Geological Survey.

Work completed to date consists of four bulldozer trenches totaling approximately 500 linear feet, as provided for by Stage I of the DMEA contract. All of Stage I work has been completed and the inspection was made to determine whether Stage II should be entered into and, if so, where the work should be done.

The results of the work to date are inconclusive. Although the trenching has demonstrated that the one stratigraphic zone is relatively continuously mineralized with uranium, the grade

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION II
RECEIVED

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RENO, NEVADA

as estimated on the basis of radiometric assays is generally below that anticipated; and the highest grade material known on the property is that originally discovered by the operator in the vicinity of the portal of his prospect adit prior to his application for DMEA assistance. In Trench 4, however, the mineralized area appears to cross the bedding planes more generally than elsewhere on the property. Secondary uranium minerals are found in stratigraphically lower beds than elsewhere and may continue to depth along a steep limb of a small fold. Although the material presently exposed is apparently marginal or sub-ore grade, it may represent a near-surface oxidized halo and additional ore may occur at greater depth. In order to determine if higher grade material may be found at a relatively shallow depth, one 25-foot shaft under Stage II of the contract should be allowed in the location indicated on figure 3. This is the most likely area in which the operator can follow mineralized ground downward to any depth.

The examiners discussed this proposal with Mr. Kohlmoos at McGill, Nevada, on May 27 and he is agreeable and eager to proceed with the shaft sinking in the suggested site.

United States Department of the Interior
Geological Survey

DMEA 4814
(Uranium)

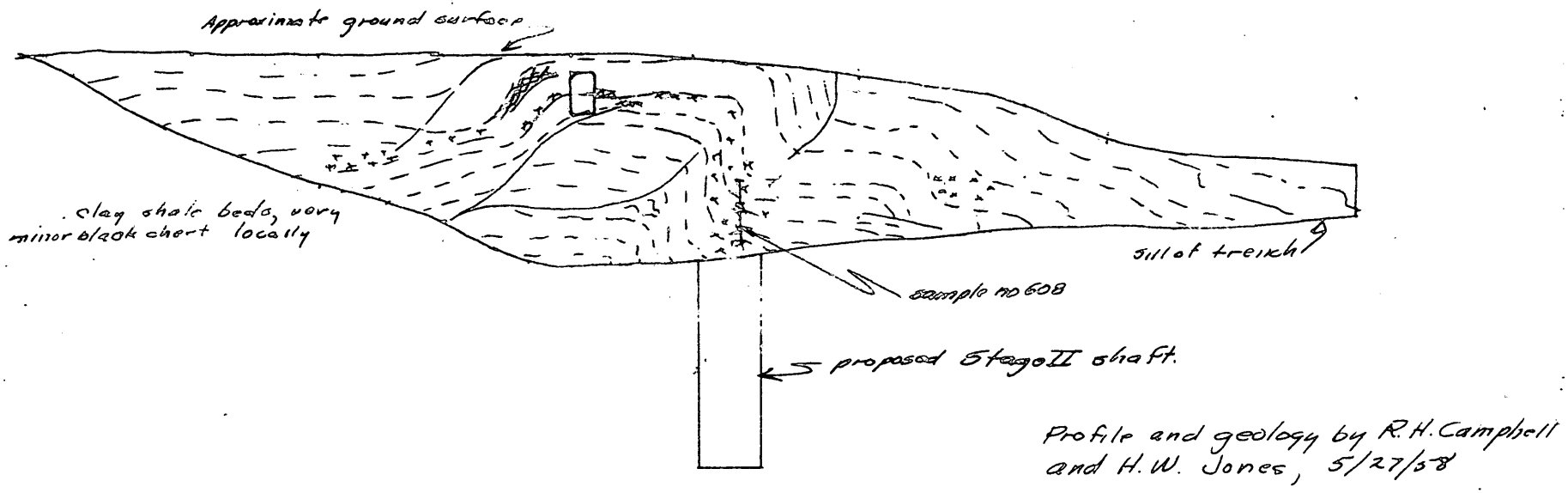

Figure 1: Sketch section along N wall of Trench No 4
scale: 1" to 20'

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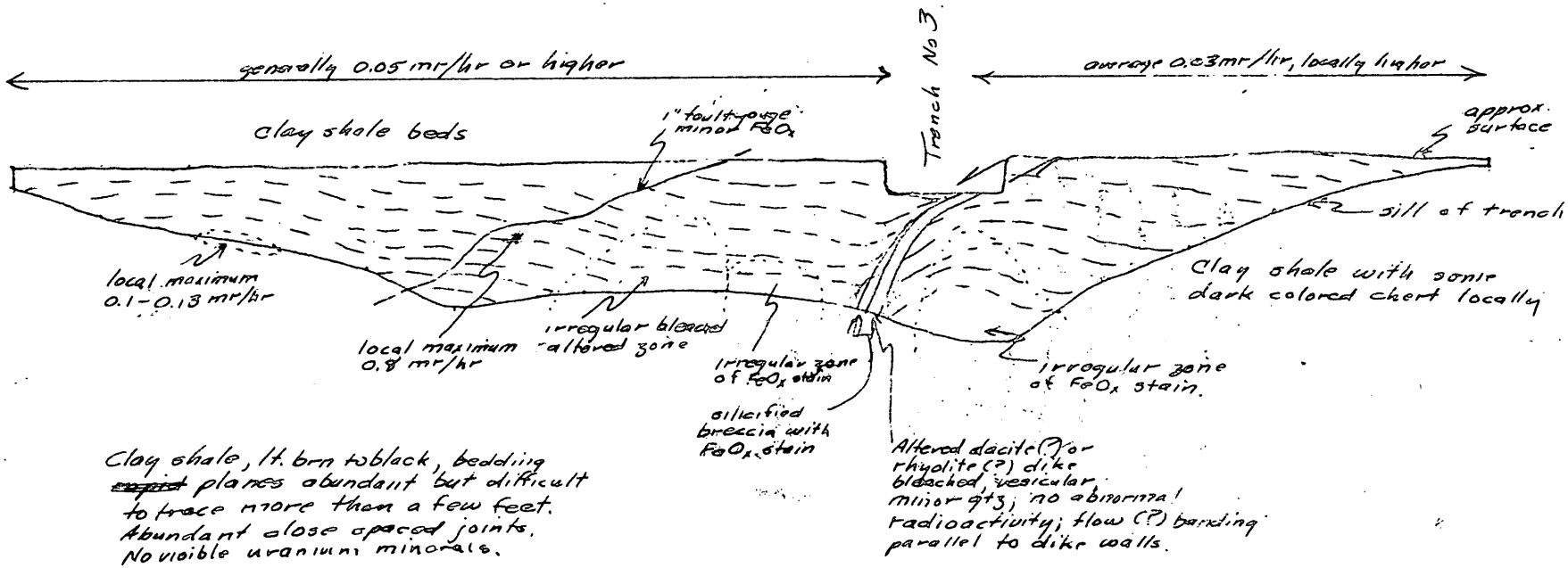
DMEA
RECEIVED JUN 13 1958

DATE	INITIALS	CODE

United States Department of the Interior
Geological Survey

DMEA 4814
(Uranium)



Profile and geology by
R.H. Campbell & H.W. Jones.
8/27/58

Figure 2. Sketch section along NE wall of trench No 2.
Scale 1" to 20'

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 13 1958

DATE	INITIALS	[illegible]

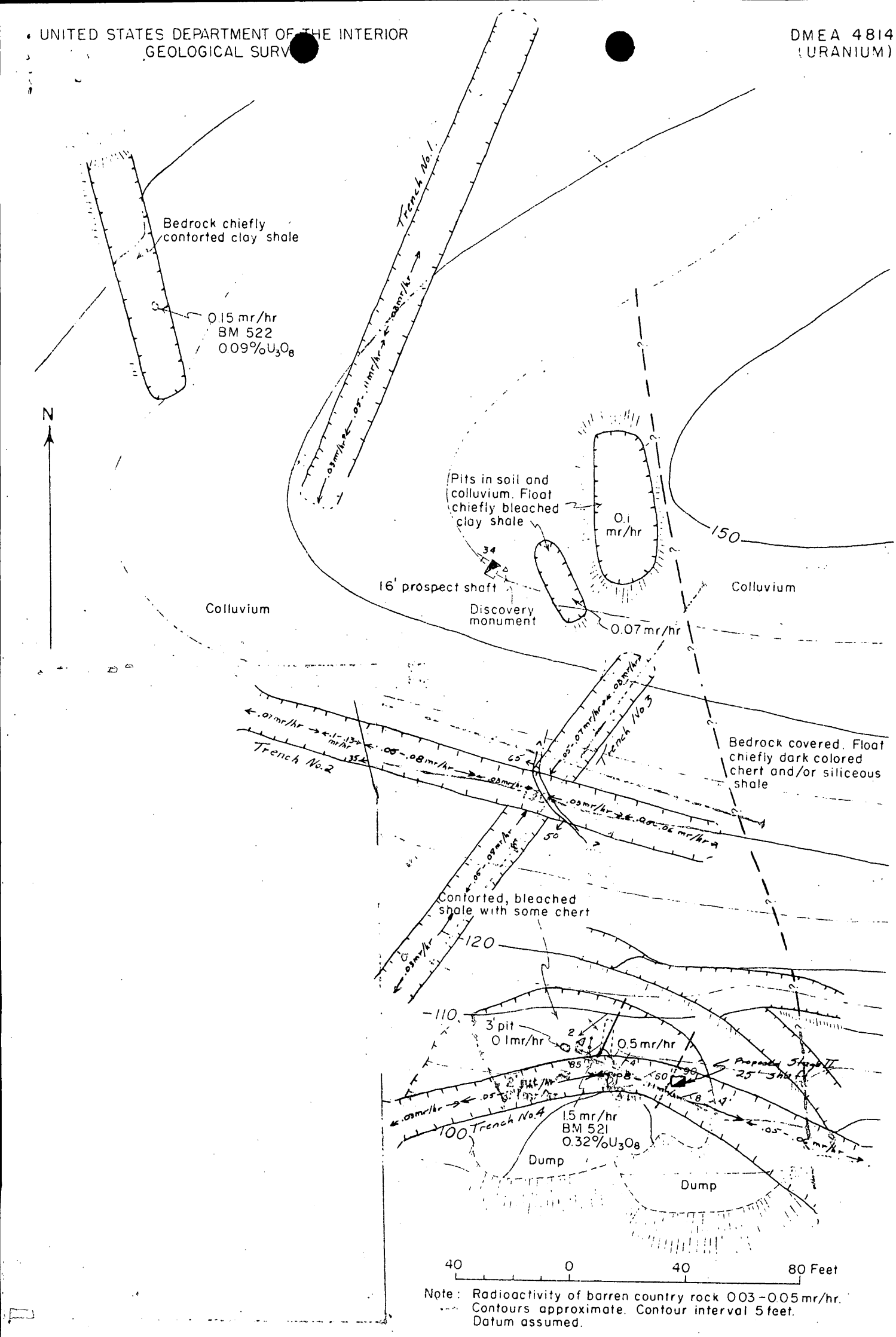


Figure 3. MAPS AND SECTIONS OF WORKINGS, RAINBOW NO. 1 CLAIM
NYE COUNTY, NEVADA

ORIGINAL FILE COPY
DMSA
RECEIVED JAN 13 1978

DATE		

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 6/11/58

REFERRED TO:

1. 700
2. Krause (Chicago)
3.
4.

file this slip

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... ✓ Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: Note: Contract provides "trenching shall not exceed 500 feet", whereas report indicates 650 feet excavated. Whether excess is in Work Item 1 or W, or both, is not stated.

Check (X) before the items needing attention.

Talbert
Initials of sender.

GPO 16—63815-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date June 5, 1958

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Wash., D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 9 1958

DATE	INITIALS	
6/10	H.g.	225
10	Com	100
11	JEJ	110
6/11	Kw	800
		700

Attached are three copies of Interim Report on

Docket No. DMEA-4814

Contract No. Idm-E 1168

Commodity Uranium

Operator William Brandt Kohlmoos, et al.

Property Rainbow and Cord Claims

By Henry W. Jones,
Mining engineer

Dated June 3, 1958

S. Ricker

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

BUREAU OF MINES
WASHINGTON, D. C.
JUN 9 10 46 AM '58

INTERIM REPORT

June 3, 1958

ORIGINAL FILE COPY
DMEA
RECEIVED JUN 9 1958
DATE

Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

The property was examined May 27, 1958, in company with R. H. Campbell, geologist, U. S. Geological Survey, to check work completed under Stage I and to determine if the second stage work should be started.

Four trenches had been dug at locations specified in the contract, by prior approval of the Field Team. The combined length of trenches was 650 feet with a maximum depth of 25 feet having been attained. The allotted 60 hours of dozing time was used.

The No. 4 trench showed an area of radiometric count with scintillator readings to 7.5 mr/hr. over a 2.0-foot width. This count area was confined to a local synclinal fold in thin-bedded limestone near a fault zone. Although radiometric determinations did not indicate commercial widths, the possibility of increasing radioactivity is indicated as the syncline nears the fault at depth. We, therefore, recommend that a Stage II

shaft be sunk 25 feet from the bottom of the No. 4 trench to test this area. As this is the only favorable area that was observed, we recommend that only one 25-foot shaft should be allowed.

The Operator was interviewed in Ely, Nevada May 28, 1958, at which time he favored the proposed shaft location. He wished to delay starting on the second stage, if approved, until after July 1, 1958.

Six samples were taken but results of assaying have not been received.

Henry W. Jones

Henry W. Jones,
Mining Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 5 1958
DATE | INITIAL | CODE
6/5 | C | 220
700
(Ricker)

June 3, 1958

Mr. William B. Kohlmoos
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

Dear Mr. Kohlmoos:

The Government approves the sinking of one shaft, not to exceed 25 feet in depth, under Stage II of the referenced contract. The shaft is to be sunk at the point designated by our engineer and the dimensions and details shall be as described under Exhibit "A", page 1, General Provisions of the Contract.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

SRicker:ft
cc: Opr. Com., DMEA, Wash., D.C.
Finance Office, Reg. II
GeoMavor
RMSmith
File
Chron

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1958 Docket No. DMEA 1014 Contract No. Idm-E 1168
Operator's Name William Brandt Kohlmoos Minerals Uranium
Address P.O. Box 4, Ely, Nevada
Contract Amount, $ 4740.00 Government Participation: 75 % Amount, (6-47) $3,555.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing	540	360	900			
Crosscutting						
Drifting						
Hauling dozer	66	66	132			
(2) Labor and Supervision:						
Labor						
Supervision	150	150	300			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	65	none	65			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$821.00	$576.00	$1,397.00			

I certify that the above bill is correct and just and that payment therefor has not been received.

William Brandt Kohlmoos

Date June 4, 1958 *Payee William Brandt Kohlmoos

Per self Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 615.75

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. SF-OMCA-29

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E1168 in accordance with the terms of the contract.

Signature Henry W. Jones Title Mining Engineer Date June 9, 1958

Henry W. Jones

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date June 9, 1958

C. Ricker

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1955 Docket No. DME-4014 Contract No. 14m-E 1168
Operator's Name William Brandt Kohlmoos Mineral Uranium
Address P.O. Box 4, Ely, Nevada

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shaft sinking	ft.					54.42	50	2,721.00
Winzes shaft timbering	ft.					9.70	50	485.00
Drilling: Core								
Churn								
Auger								
Stripping								
Trench bulldozer	hr.	540.00	36	900.00	60	15.00	60	900.00
Move dozer to/from job	job	66.00	1/2	132.00	1	132.00	1	132.00
Roads and Trails		65.00	13	65.00	13	5.00	40	200.00
Samples sample	sample	150.00	1/2	300.00	1	300.00	1	300.00
Supervision	job							
TOTAL DISTRIBUTED COSTS		821.00		1,397.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		821.00		1,397.00		(rounded)		4,740.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 4, 1956 Operator William Brandt Kohlmoos
William Brandt Kohlmoos
Per self Title Partner

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

(Instructions on reverse)

REMARKS:

(For Government use only)

Henry W. Jones

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Month: May, 1958 Docket: No. DMEA 4814 Contract: No. Idm-E 1168
Operator's Name: William Brandt Kohlmoos et. al. Minerals: Uranium
Address: P.O. Box 4, Ely, Nevada

Narrative Report on Work Progress

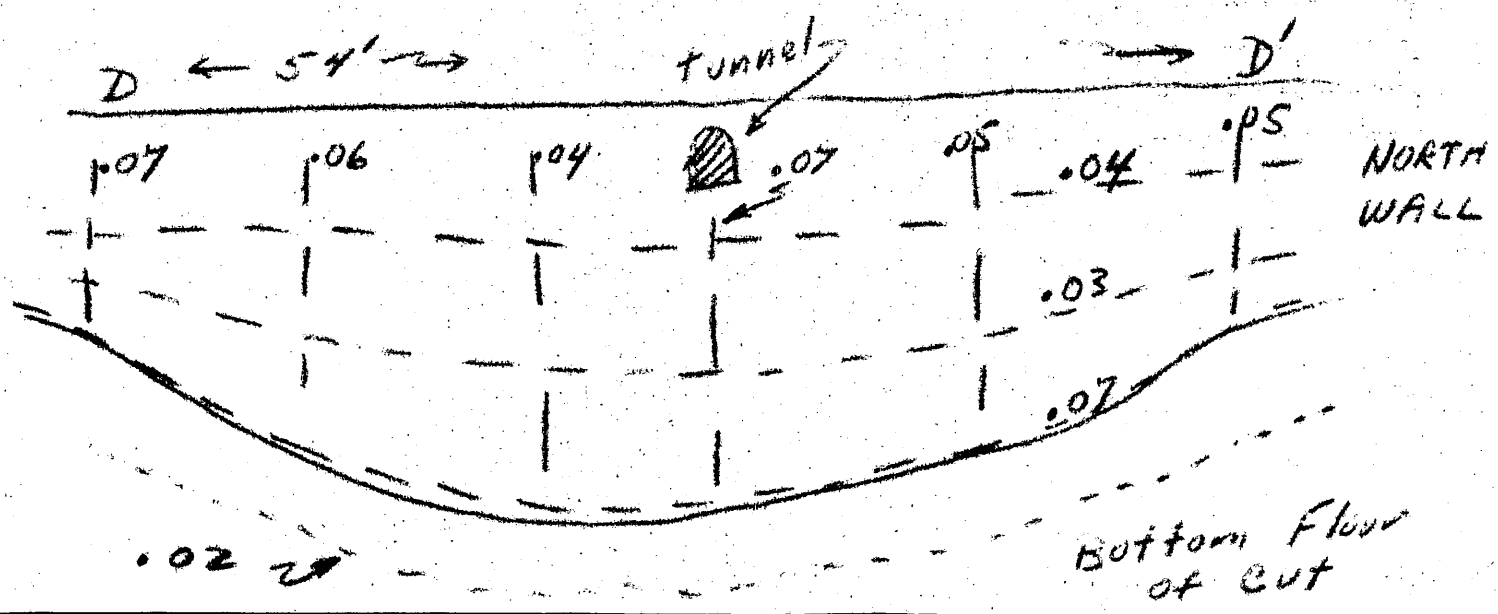
During the Month of May:

1. Cut C-C' was deepened.
2. Cut A-B' was deepened.
3. Cut B-B' was deepened.
4. Cut D-D'-D'' was made.
5. The bulldozer completed the assigned work and moved out.
6. 13 samples were taken.

Cut C-C'-C'' did not reveal much information. Between C' and C'', the ground was a very hard, silicified shale that was extremely difficult to cut with the bulldozer. Between C and C', the rock was a little softer, and could be [illegible]. This cut was taken down to a total depth of approximately six feet. [illegible] samples were cut across the bottom of this cut between C and C'. The samples ran 0.06 and 0.04 U_3O_8 chemical.

Cut A-B' was taken down several feet more, to a depth of approximately 24 feet. A sample was cut along the centerline of this cut, in the bottom, from A to B'. This sample assayed 0.03 U_3O_8, chemical.

The face of the north wall of cut D-D'-D'' was thoroughly sampled. Three horizontal and six vertical channel samples were cut from the top to the bottom of this wall, for a total length of 54 feet. The samples assayed 0.04, 0.03, 0.07, 0.07, 0.06, 0.04, 0.07, 0.05, and 0.05 U_3O_8, chemical. Small areas of higher grade were evident on this wall, but the samples as taken, in an impartial manner, did not include any of these areas. A sketch of the wall and the locations from which the samples were taken, is included with this report. As of the end of May, 1958, all of the work for Stage I has been completed.



C"
Fault
Rainbow No 1 Chim
NYE COUNTY
NEVADA
D"
Dump

AUSTIN GARAGE

LEO MARSTRETTI, PROPRIETOR

Batteries Charged and Welding

SHELL DISTRIBUTING AGENCY

24 HOUR ELECTRIC SERVICE

Towing: Day and Night Service

Austin, Nev., May 10 1958

Sold to Bill Robbins Ely Nevada

DATE		DEBIT	CREDIT	BALANCE
May 1-58	10 Hours Dozer work @ 15.00 per hr	150.00		
3-58	9 " " " " " "	135.00		
4-58	9 " " " " " "	135.00		
5-58	8 " " " " " "	120.00		
8-58	66 Miles Trans @ 1.00 per mile	66.00		
	Total	606.00		

EXTRA COPY
DMEA
RECEIVED JUN 16 1958

DATE	INITIALS	CODE

AUSTIN GARAGE

LEE MAISTRELLI PROPRIETOR

Batteries Charged and Welding

SHELL DISTRIBUTING AGENCY

24 HOUR ELECTRIC SERVICE

Towing Day and Night Service

Austin, Nev. [illegible]

Sold to [illegible]

ASSAY PER TON IN [illegible]

NAME

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date May 8, 1958

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Wash., D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 12 1958

Attached are three copies of Interim Report on

Docket No. DMEA-4814

Contract No. Idm-E 1168

Commodity Uranium

Operator William Brandt Kohlmoos, et al.

Property Rainbow and Cord Claims

By Henry W. Jones, Mining Engineer

Dated May 6, 1958

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

BUREAU OF MINES
WASHINGTON, D. C.

MAY 12 9 49 AM '58

INTERIM REPORT

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 12 1958
DATE

May 6, 1958

Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

Exploration contract forms were submitted to the applicant for his approval and signature February 6, 1958. The applicant requested a change in the contract whereby a D-7 caterpillar dozer could be used instead of the specified D-8. Accordingly, Amendment No. 1 was drawn up, incorporating the requested changes, and contract work started April 25, 1958.

The D-7 bulldozer was moved as close to the site as snow conditions would allow and was walked in the last three miles, clearing the road of snow en route.

At the time of inspection, April 30, three trenches had been dug at locations specified by the contract. The combined length of trenches was 460 feet and the maximum depth was 21 feet. Site of the fourth trench was selected and bulldozing started immediately. Approximately 30 hours

of dozing time had been used to the time of inspection. It was decided that all remaining time would be used to deepen the existing trenches.

Dozing between the shaft and drift uncovered a fault zone that strikes N 20° W and dips 55° west. Very little radioactive count was detected in or bordering the fault zone but radioactivity increased to a maximum count of about two mr/hr. in a zone about 20 feet west of the fault and in all trenches. Four samples were taken. Upon completion of bulldozing, an inspection will be made to select sites for the proposed shafts under Stage II if warranted.

Henry W. Jones

Henry W. Jones,
Mining Engineer

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1958 Docket No. DMEA 4814 Contract No. Um-S 1160
Operator's Name William Brandt Kohlmoos, etal Minerals Uranium
Address P.O. Box 4, Ely, Nevada
Contract Amount, $4,740.00 Government Participation: 75 % Amount, $ 3,555.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing	360.00	none	360.00			
Crosscutting						
Drifting						
Haulage-tractor	66.00	none	66.00			
(2) Labor and Supervision:						
Labor						
Supervision	150.00	none	150.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$576.00	none	$576.00			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 12, 1958 *Payee William B. Kohlmoos

Per _____ Title partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 432.00

Frances S. Horton
Authorized Certifying Officer

Signature _____
(Authorized Certifying Officer)

Date May 2, 1958 Vou. No. SF-DMEA-29

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E168 accordance with the terms of the contract.

Signature Henry W. Jones Title Mining Engineer Date May 23, 1958

Henry W. Jones

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date May 23, 1958

S. Eicker

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1959)

Budget Bureau No. 42-R1151.2

RECEIVED JUN 16 1958 DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible]
Minerals [illegible]
Address [illegible]

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	[illegible]					[illegible]	[illegible]	[illegible]
Winzes	[illegible]					[illegible]	[illegible]	[illegible]
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Test Pits	[illegible]							
Roads and Trails	[illegible]					[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS		[illegible]		[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		[illegible]		[illegible]		[illegible]		[illegible]

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

REMARKS: [illegible]

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

(Instructions on reverse)

(For Government use only)

Henry W. Jones

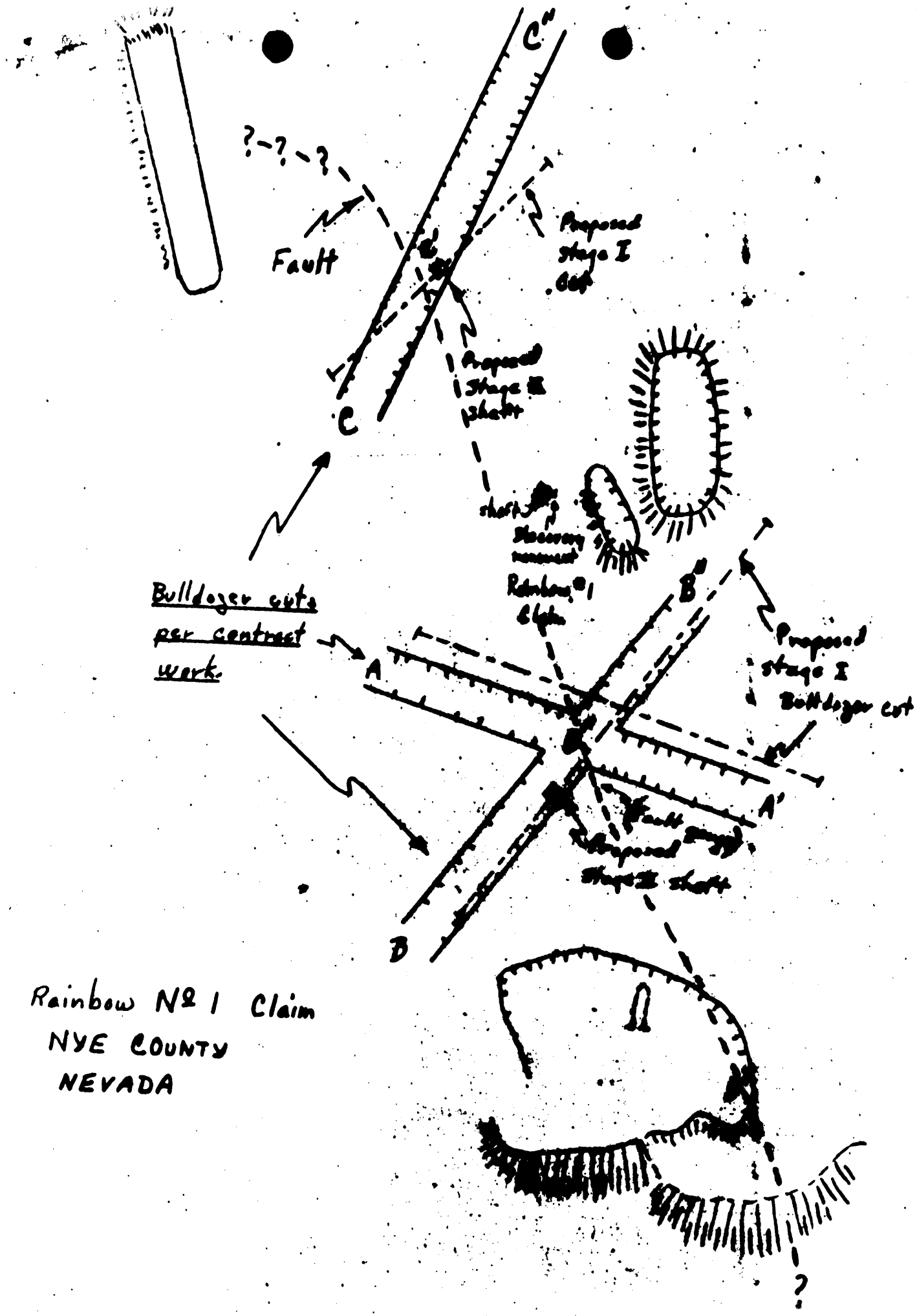
INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894



Rainbow Nº 1 Claim
NYE COUNTY
NEVADA

Month: April, 1958 Docket No. DMEA 4814 Contract No. Idm-E 1168
Operator's Name: William Brandt Kohlmoos et al. Minerals: Uranium
Address : P. O. Box 4, Ely, Nevada.

NARRATIVE REPORT

A caterpillar D-7, with bulldozer blade, was brought to the job location on April 24, 1958, and commenced work in accordance with the contract.

Cuts A, B', A', and C, C', C'', were shifted slightly from the proposed location in order to conform to the contour of the hill and better facilitate bulldozer operation.

Between two and three feet of overburden was removed from each cut. There was a foot of hardpan under the overburden.

Cut A-B'-A' disclosed a fault which strikes approximately N10°E. The fault gouge is 18 inches wide, on an average. Fault gouge was also discovered near C' in cut C-C", and is visible at point D' in the southernmost workings.

A 20 to 55-foot wide belt in which there is increased radioactivity lies to the west of, and parallel to the fault. The radioactivity increased to 25 times normal background between C-C'.

In cut A-A', a depth of 18 feet was reached at point B'. Between B' and B", a hard layer of sedimentary rock limited the depth of the cut to four feet. Between C' and C" is a black, hard, highly silicified shale.

Cuts C-C', A-B', and B-B' disclosed numerous thin, (2 to 18 inches), beds of soft, broken shale and clay of widely varying color, texture, and material. The beds are highly twisted, folded, and displaced. Near points A and B the beds are less disturbed, and are in a generally flat-lying position.

As of the end of April, 1958, slightly less than half of the total anticipated bulldozer time had been used. No samples were taken for assaying, as it is planned to sample the cuts after Stage I work is completed.

Signed: William B. Kohlmoos
William B. Kohlmoos

Date : MAY 12 1958

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

April 9, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

Enclosed are the Government's and Audit copies of Amendment No. 1 to subject contract, executed by the Operator. The remaining copies have been distributed in the usual manner.

For S. Ricker

Attachments

DATE	REPLY	CODE
3/28		
3/28		

1605 Evans Avenue
Reno, Nevada

March 25, 1958

Mr. William B. Kohlmoos
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada
Contract No. Idm-E 1168

Dear Mr. Kohlmoos:

Enclosed are the original and four copies of Amendment No. 1 to referenced contract, signed by the Administrator for the Government.

This Amendment is in accordance with your request of February 24, 1958. Please sign all copies, retain the copy marked "Operator's copy" and return the original and other three to this office.

If weather conditions do not permit starting on or before the starting date, we shall be able to extend it.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments
SRicker:ft
cc: Opr. Com., DMEA, Wash., D.C. (2)
Finance Office
GeoMavor
RMSmith
File
Chron

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3-18	[illegible]	700
3-18	[illegible]	700
3-18	[illegible]	800
3/19	[illegible]	130
"	[illegible]	110
		~~100~~
		~~216~~
3/20	[illegible]	220
		700

MAR 19 1958

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William ~~Brandt~~ Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ricker:

As recommended in your memorandum, dated March 3, 1958, we are enclosing the original and four copies (with two extra copies) of Amendment No. 1 to the above contract, signed by the Administrator. The amendment consists of two pages.

If you and the Operator find the amendment satisfactory, it is ready for the Operators' signatures. After the amendment is signed, please make the usual distribution of the document.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

A. D. McMahon (GCS)
Member, Bureau of Mines

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

FLKnouse/izm 3-18-58
cc: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

DMEA Form 7
(1-56)

RECEIVED
MAR 13 1958
ASSOC. SOLICITOR
MINERAL RESOURCES

OFFICIAL FILE COPY

Date	Surname	Code
3/12/58	Kagan	700
"	Ellis	700
		140

INTERIOR DEPT.
MAR 12 1958
SOLICITOR

March 12, 1958

Memorandum

To: Associate Solicitor
Division of Mineral Resources

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

Subject: Docket No. DMEA-4814 (Uranium)
Contract No. Idm-E1168
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Please prepare Amendment No. 1 to provide the following:

It is agreed this 15th day of March, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and William Brandt Kohlmoos and Ted Corder, that Exploration Project Contract Idm-E1168, Docket No. DMEA-4814, dated February 6, 1958, is amended as follows:

In Exhibit "A":

(a) In line 1, paragraph 2, page 1, "Model D-7" is substituted for "Model D-8";

(b) Under Stage I, pages 2 and 3, Category (1) <u>Independent Contracts</u>, paragraph 1 is revised to read:

60 hours of actual tractor w/dozer operating time excavating 500 feet of trenching (including operator and all necessary costs whatsoever) @ $15.00/hr. $900.00

Moving tractor to and from project area 132.00 ~~$1,032.00~~

8623

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

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals Exploration Administration

By _____
William Brandt Kohlmoos

By _____
Ted Corder

Ernest Wm. Ellis

_____
Ernest Wm. Ellis

FLKnouse/izm 3-12-58

cc: Mr. Knouse

OFFICIAL FILE COPY
DMEA
RECEIVED 7 1958

DA		
3-7	C	220
3/11	B	215
3/12	FLK	700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

March 3, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Enclosed are the Government's and Audit copies of subject contract executed by the Operator.

Enclosed are two copies of a letter from the Operator requesting a slight change in the contract which can only be made by an amendment. The Operator had previously talked with us by telephone on February 24, 1958 and suggested the minor changes as per his letter. They seemed reasonable and he was advised that the changes could probably more expeditiously be made by an amendment than by rewriting the whole contract.

We believe the suggested amendment is reasonable and that the required work can be accomplished satisfactorily by the D-7, inasmuch as it is equipped with upper teeth. In fact, the smaller size Caterpillar in some terrain is more efficient and maneuverable than the larger size.

The total cost remains the same and the equivalent or possibly more length of trench will be made for the same cost. In addition, our acception of proposal shows a willingness to cooperate when the request is not disadvantageous to the Government.

The remaining copies of contract will not be distributed until we have your reaction to our suggestion.

S. Ricker

Attachments

February 24, 1958
P.O. Box 4
Ely, Nevada

7

Mr. S. Ricker, Executive Officer
United States Department of the Interior
Defense Minerals Exploration Administration
1605 Evans Avenue
Reno, Nevada

Dear Mr. Ricker:

In reference to Docket No. DMEA 4814, Contract No. Idm-E 1168, I would appreciate having the following changes made.

(1) Exhibit "A", paragraph 2, first sentence, "--- Model D-8 Caterpillar tractor---."
to read:"--- Model D-7 Caterpillar tractor---."

(2) Stage I, Category (1), "--- 52 hours---"
to read: "--- 60 hours---"

"--- @16.00/hour $832 ---"
to read: "---@ 15.00/hour $900----"

"--moving---- $200.00---"
to read: "--moving---- $132.00---"

It would cost $450 to $550 to have a D-8 hauled to the location from the nearest point of availability, Fallon. The estimated rate is $16 to $17 per hour. There is a D-7 available in Austen. Haulage charges from Austen to Northumberland would be about $150. The hourly rate for the D-7 is $15.00. The owner and operator has an excellant reputation for honesty and quality of work. The blade on the D-7 has ripper teeth, which would be an advantage for this job. I believe the D-7 capable of cutting the trenches 10 to 15 feet deep in the alloted time.

The starting date for the work is on or before May 15, 1958. Would it be advisable to add,"weather permitting"? I shall try to start in April, if possible, and will contact you at the time.

My cabin at Northumberland will be available for any of your men, any time they are in the area.

Sincerely,

W. B. Kohlmoos

Enc.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 13 1958

DATE	INITIALS	CODE
2/13	C	220
2/14	~~JLR~~	700

1605 Evans Avenue
Reno, Nevada

February 11, 1958

Mr. William B. Kohlmoos
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et.al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Kohlmoos:

Enclosed are the original and four copies of a proposed long-form contract for an exploration program at the above-referenced property, signed by the Administrator for the Government, together with Annex I (one page), Annex II (one page), Exhibit "A" (four pages), and two maps.

If the proposed contract meets with your approval, all five copies should be signed by you and your partners. The copy marked "Operator's copy" should be retained by you and the original and other three copies should be returned to this office.

If any part of the contract does not meet with your approval, the original and all copies should be returned with your suggested changes for our consideration.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments
SRicker:ft
cc: Opr. Com., DMEA, Wash., D.C.
RMSmith
File Chron

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/4/58	Knouse	700
"	Chambers	800
2/5	GCS	130
"	Johnson	110
"	Butterworth	100
2/6	C	220
		700

FEB 6 1958

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ricker:

Enclosed are the original and four copies of a proposed long-form contract between the Government and the subject Applicants, signed by the Administrator. The contract consists of Form MF-200; Annex I, one page; Annex II, one page; and Exhibit "A," four pages. To complete the contract, two maps (Figures 2 and 3) are to be attached by the Field Team. Also enclosed for the use of the Field Team are two extra copies of Annexes I and II and Exhibit "A."

If you and the Applicants find the contract satisfactory, it is ready for the signatures of the two partners provided a suitable starting date is inserted in Article 3, and the two maps (Figures 2 and 3) are attached to each copy of the contract. After the contract is signed, please distribute the document in the usual manner.

If any part of this proposed contract does not meet with your approval or the Applicants' and cannot be amended within your delegated authority, the original and all copies are to be returned with the proposed changes for consideration.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

FLKnouse/gla
2-4-58

APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

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

cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
FLKnouse

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/27/58	Knouse	700
1/28	Ellis	700
		140

January 27, 1958

Memorandum

INTERIOR DEPT.
JAN 28 1958
SOLICITOR

To: Associate Solicitor
Division of Mineral Resources

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

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Attached is a draft of a long-form contract covering the subject application.

The Executive Officer did not send the required maps, Figures 2 and 3. The maps are bound in the file with the Field Team report. When the contract is drafted, we plan to forward it to the field for signature subject to attachment of the maps.

/s/ Ernest Wm. Ellis

Ernest Wm. Ellis

FLKnouse/gla
cc to: Mr. Knouse

8623

DRAFT
1/27/58
FLKnouse/g

MF-200
(Revised June 1954)

Docket No. DMEA 4814

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] William Brandt Kohlmoos and Ted Corder, a Partnership,

whose mailing address is P. O. Box 4
Ely, Nevada,
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 two maps, Figures 2 and 3

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 Nevada, County of Nye, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] owners of [5] the entire interest in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] Location Notices, [7] recorded in Book ....., page ....., official records of said County; and

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

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

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

of the land (lessor, seller, optionor, etc.), are attached, as follows: .....

.....

.....

(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 August 1, 1958 (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"~~ , except as otherwise provided in Exhibit "A" with respect to stages of work. (See Article 13.)

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 $4,740.00. The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $3,555.00: *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.~~ (See Article 13.)

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. See Article 13.

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~~ 8. 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.*—

(a) That part of the last sentence of Article 3 beginning with the word "either" is deleted and replaced by the words "have completed the work, except as otherwise provided in Exhibit 'A' with respect to stage of work."
(b) That part of the last sentence in the first paragraph of Article 6(a) commencing after the semicolon is deleted.
(c) Categories (3) through (6) of Article 6(a) are deleted.
(d) In addition to the costs of work estimated in Exhibit "A" by categories of actual costs, the costs of work requirements specified in Exhibit "A" as "Fixed Unit Costs" are allowable costs of the project. The Government will contribute to the fixed unit costs as work units are performed. A "Fixed Unit Cost" is an agreed price for each unit of work to be performed regardless of costs incurred by the Operator. Costs set forth in Exhibit "A" include all allowable costs of the work to be performed under the Contract.
(e) In the last sentence of Article 6(c), the words "Article 8" are substituted for the words "Article 9."

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
1/27/58
FLKnouse/gla

EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-4814

ANNEX I

The land referred to in Article 2 of the contract form consists of 19 contiguous unpatented lode mining claims situated in sec. 3, T. 12 N., R. 45 E., M.D.M. & B., Nye County, Nevada. Notices of claim locations are recorded at the Nye County Courthouse, Tonopah, Nevada, as follows:

Claim	Book	Page
Rainbow No. 1	6	150
" " 2	6	151
" " 3	6	152
" " 4	6	153
" " 5	6	154
" " 6	6	155
" " 7	6	156
" " 8	6	157
" " 9	6	158
" " 10	6	159
" " 11	6	160
" " 12	6	161
" " 20	13	389
Cord	6	171
Cord No. 1	13	383
" " 2	13	384
" " 3	13	388

Claim	Book	Page
Cord No. 4	13	386
" " 5	13	387

The relative locations of the claims listed above are shown on the attached map entitled, "Figure 2. Claim Map, Rainbow and Cord Claims, Nye County, Nevada.

DRAFT
1/27/58
FLKnouse/gla

EXPLORATION PROJECT CONTRACT
Docket No. DMEA-4814

EXHIBIT "A"

General Provisions:

The objective of the project work is to explore at depth a zone of uranium-bearing shale by means of trenching with a tractor and sinking shafts where significant mineralization is exposed in the trenches. The approximate location and extent of the trenching is shown on the attached map entitled, "Figure 3. Maps and Sections of Workings, Rainbow No. 1 Claim, Nye County, Nevada."

All trenching shall be done with a Model D-8 Caterpillar tractor w/dozer or with an equivalent size unit of another make. All trenching shall be cut into the shale bedrock not less than 2 feet and the average depth is expected to be about 10 feet.

The shafts shall have a rock cross-sectional dimension of not less than 4 feet by 7 feet and shall be timbered as necessary with standard two-compartment shafts set on 5-foot centers. The depth of either shaft shall not exceed 25 feet. No work shall be done closer than 100 feet to the outside boundary of the property.

The entire length of the trenches and shafts shall be checked for radioactivity and uranium mineralization. All areas that indicate significate mineralization shall

be channel sampled across the exposures at intervals of not more than 10 feet and the samples shall be analyzed chemically for U_3O_8. Not more than 20 samples shall be analyzed chemically for either Stage I or Stage II. The method of all sampling is subject to the approval of the Government. All samples from the trenches or shafts selected for chemical analyses shall be split into halves, one-half shall be used for assaying and the other half shall be properly labeled and stored and furnished to the Government upon request. Upon Government approval all stored samples may be disposed of by the Operator.

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

The work is divided into two stages as set forth below. The Operator shall perform all the work in Stage I and as much of the Stage II work as is approved in writing in advance by the Government.

Description of the Work:

Stage I

1. Excavate not more than 400 feet of trenches at the approximate locations shown on the attached map, Figure 3.

2. At locations approved by the Government, excavate not more than 100 feet of trenching.

The aggregate total amount of trenching shall not exceed 500 feet.

Stage II

In the Stage I trenches where significant uranium mineralization is exposed, sink not more than two-2-compartment shafts at locations approved by the Government.

The aggregate total amount of shafting shall not exceed 50 feet.

Estimated Cost of the Project
(In addition to the maximums set forth in Article 6, an asterisk indicates maximum)

Stage I

Actual Cost

Category (1) Independent Contracts		
52 hours of actual tractor w/dozer operating time excavating 500 feet of trenching (including operator and all necessary costs whatsoever) @ $16.00/hr.	$ 832.00	
Moving tractor to and from project area	200.00	$1,032.00
Category (2) Labor, Supervision, and Technical Services		
1 - Supervising engineer @ $600.00/mo., ½ month	300.00	300.00

Categories (3) through (6)

None

Category (7) Miscellaneous

None except:

20 chemical sample analyses

@ $5.00*/each sample	$ 100.00	$ 100.00
Estimated Total Cost of Stage I		$1,432.00

Stage II

Actual Cost

Categories (1) through (6)

None

Category (7) Miscellaneous

None except:

20 chemical sample analyses

@ $5.00*/each sample	$ 100.00	$ 100.00

Fixed Unit Cost (See Article 13)

50 feet of shafting		
@ $54.42/ft. 1/	$2,721.00	
50 feet of shaft timbering		
@ $9.70/ft. 1/	485.00	3,206.00
Estimated Total Cost of Stage II		$3,306.00

S U M M A R Y

Estimated Total Cost of Stage I	$1,432.00
Estimated Total Cost of Stage II	$3,306.00
Total Estimated Cost of the Project (rounded)	$4,740.00
Government Participation @ 75%	$3,555.00

1/ Includes all costs that might otherwise be allowable cost of the project under Categories (2) through (7) of Article 6(a).

Telefax WESTERN UNION Telefax

W LDK053 PD=RENO NEV 23 958AMP=

OPERATING COMMITTEE DEFENSE MINERALS EXPLORATION ADMIN=
INTERIOR BLDG WASHDC=

REYOURTEL DMEA-4814 PROPOSED SHAFT 4X7 IN CLEAR 1 AND 1/2 COMPARTMENT COST PER FOOT TIMBERING INCLUDING LABOR AND SUPPLY $9.70 PER FOOT SHAFT SINKING WITHOUT TIMBER $57.00 PER FOOT=

S RICKER=

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DATE	INITIALS	CODE
1/24	C	220
"	FLK	700

1270 (1-51)

Form 7
(2-56)

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Date	Surname	Code
1-22	Knouse	700
1-22	Ellis	700
1/22	[illegible]	130
"	Johnson	110
"	Mettenbrey	108
		212
1/22	gb	220
		700

JAN 22 1958

1/22 Kiilsgaard (130
1/22 McMahon (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

SPANGLER RICKER
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION II
1605 EVANS AVENUE
RENO, NEVADA

REFERENCE FIELD TEAM REPORT DMEA 4814 WILLIAM BRANDT KOHLMOOS.

WILL PROPOSED SHAFTS BE TWO COMPARTMENTS ALSO PLEASE ADVISE TOTAL COST PER FOOT FOR SHAFT TIMBERING INCLUDING LABOR AND SUPPLIES.

FLKnouse/izm 1-22-58

cc: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
Confirmation cc to Reg. 2

George C. Selfridge

CHAIRMAN, OPERATING COMMITTEE (HB)

8623

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1/23 | F4K | 700

IN REPLY REFER TO:

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

January 21, 1958

Memorandum

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

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

Subject: Review of field examination report, DMEA 4814 (uranium), William B. Kohlmoos, Rainbow and Cord Claims, Nye County, Nevada

The examining team report that geologic conditions on the applicant's property are favorable for the presence of minable uranium ore deposits. They state that the many scattered showings of low abnormal radioactivity suggest that concentrations of uranium are present over a relatively large area of about 30 claims.

The examining team recommend approval of an exploration project that is somewhat modified from the applicant's proposal. The examiners' proposed project would consist of a two-stage program of surface bulldozer trenching and shallow shaft sinking.

The Rare and Miscellaneous Metals Division, DMEA, made inquiry of the Executive Officer, Region II, as to the feasibility of substituting drilling for shaft sinking. In a memorandum dated January 15, 1958, the Executive Officer reaffirmed the examiners' conclusions that the ground was too ravelly for reliable drilling results.

I am in accordance with the findings of the Field examiners and recommend that a DMEA contract be prepared with provisions as outlined in the field examination report.

W. P. Williams

W. P. Williams

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"	Kubinec	700

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

Date January 21, 1958

DMEA Docket No. 4814
DMEA Contract No.
Commodity Uranium
Name of applicant William Brandt Kohlmoos
Name of property Rainbow and Cord Claims
Location of property Nye County, Nevada
Estimated cost of project

Memorandum ✓

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Review of Field Team Memorandum for January 15
(Application, Field Team Report, etc.)

1. Date of subject document: 1/15/58. 2. Date received by reviewer: 1/17/58.

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)

The rate of shafting plus other data does not satisfy me completely but in view of the small size of the program, I concur with the Field Team.

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1/17	C	220
"	Knouse	700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

January 15, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Reference is made to my telephone conversation with Mr. Knouse on January 2, 1958 regarding our prospect proposal on subject property.

Cost of Analysis:

I agree with Mr. Knouse that the allowed per unit cost of analysis should be $5.00 instead of the $10.00 proposed. Abbott Hanks' charge is $10.00 but the Operator can obtain reliable work in Salt Lake City and elsewhere for $5.00.

Shafts versus Wagon Drilling:

Owing to the exceptional disequilibrium between equivalent and chemical uranium in assays, a better geological picture can be obtained by examination in place in comparison to examination of cuttings from wagon drillings. In addition, the association of the minerals in respect to their association with stratographic horizons can be more readily determined. Drilling of any kind would be unsatisfactory due to the ravelly condition of the ground.

Shaft Costs:

We believe the cost of sinking is reasonable.

Suggest that contract be prepared on a unit cost basis.

S. Ricker

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1/7	[illegible]	200

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

Date January 7, 1958

DMEA Report No. 4814
DMEA Project No.
Commodity Uranium
Name of applicant William B. Kohlmoos
Name of property Rainbow and Cord claims
Location of property Nye County, Nevada
Estimated cost of project $4,937.75

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
From: James Paone, Bureau of Mines Member
Uranium Commodity Committee

Subject: Field Team Report
(Application, Field Team Report, etc.)

1. Date of original documents: 12/20/57 2. Date received by reviewers: 1/2/58

3. Field reports on this property known to reviewers: Yes [ ] No [ ]

4. Field reports on nearby properties known to reviewer: Yes [ ] No [ ]

5. Information available on past production: Yes [ ] No [ ]

6. Other pertinent factors known to reviewers: 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 [x]
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [x] with reservation.
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary) It does not appear that sinking two shafts in bulldozer cuts is the most efficient way to explore the trenches. Inasmuch as the drilling is shallow, for the same amount of money, much more could be learned by a systematic drilling program. Error in computation on page 17, item (4). In general , costs appear to be high.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/3/58	Knouse	700
"	Ellis	700
		225

January 3, 1958

Memorandum

To: The File

From: F. L. Knouse, Mining Engineer
Division of Rare and Miscellaneous Metals

Subject: Telephone call this date to
Executive Officer, Region II
Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Knouse: There are a few questions about the recommended Stage II work for DMEA-4814, William Brandt Kohlmoos, in the Field Team report that I would like to discuss. Please pull your file on the case.

Ricker: I have been out sick until today and the fellows who examined the property are away. I may be able to get in touch with Campbell later today and Jones on Monday or Tuesday. I was just looking the Field Team report over.

Knouse: For Stage II work, the Field Team recommended two 25-foot deep 4x7 feet in cross section shafts at favorable sites within the dozer trenches, Stage I work. The recommended cost/ft. of shaft sinking is $64. Could you get the desired information concerning the mineralization to the 25-foot depth by means of wagon drilling, analyzing the drill cuttings and probing the holes for radioactivity? Normally, drilling cost to a depth of 25 feet should be done for less than $1/ft. after the equipment is on the ground.

Ricker: I don't know; I will have to talk the question over with the boys. However, the drilling sounds good. One would need drills and a compressor for drilling the same as for shaft sinking. That may be the better way to do the job. I'll talk it over with the boys and send you something about it next week.

8623

Knouse: We notice that the Field Team recommended $10/sample for U_3O_8 chemical analyses. The rate in Region III ranges from $3.50 to $5/sample. What is the going rate charged by reliable assayers in your area?

Ricker: We have been doing all the assaying here and I don't know what the assayers charge. If assaying can be done for $5 in Salt Lake and the assayers here want $10, the samples can be sent to Salt Lake.

Knouse: If you stand pat on the shaft sinking program, there are a few items I wish you would check. The Field Team has based its costs on a sinking rate of 1.0 foot/shift. Do you think that is a little slow?

Ricker: That does sound a little slow. I'll have to cover that point with the boys.

Knouse: The Field Team has recommended rental of a compressor from the Operator @ $175/mo. Only depreciation, operation, and maintenance costs can be allowed an operator for owned equipment used on the project. Also, we note that the Field Team recommends timbering the entire length of the shafts and the timber will cost $7.00/ft. Would you please check this item.

Ricker: I'll have to look this recommended program over and we will send you our decision next week.

F. L. Knouse

F. L. Knouse

FLKnouse/gla
cc to: Mr. Knouse

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

December 20, 1957

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12/24	C	220
12/30	JB	130
12/30	C	220
12/31	FLK	700

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

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

Subject: DMEA-4814 (Uranium)
William B. Kohlmoos
Rainbow and Cord claims
Nye County, Nevada
(Your letter, September 20, 1957)

Enclosed are three copies of a report by H. W. Jones, U. S. Bureau of Mines, and R. H. Campbell, U. S. Geological Survey, in which a DMEA exploration loan at a total cost of $4,937.75 is recommended.

Mr. Ricker and I concur in the recommendation.

Roscoe M Smith

Roscoe M. Smith

Encls.

ON-SITE
EXPM

Reviewed by
DMEA OPERATING COMMITTEE
12-30-57
(date)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4814 (Uranium)
William B. Kohlmoos
Rainbow and Cord claims
Nye County, Nevada

by

H. W. Jones
U. S. Bureau of Mines

R. H. Campbell
U. S. Geological Survey

December 20, 1957

Reviewed by
DMEA OPERATING COMMITTEE
12-30-57
(date)

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Introduction	1
Conclusions and Recommendations	1
Location, Accessibility, and Local Facilities	3
History, Property, and Ownership	4
Development	5
Geologic Setting	5
Ore Deposits	7
Sampling	11
Ore Reserves	12
Exploration	13
Exploration Costs	15

ILLUSTRATIONS

Figure 1 . . . . . Index map

2 . . . . . Claim map

3 . . . . . Geologic map

INTRODUCTION

Mr. William Brandt Kohlmoos, P. O. Box 4, Ely, Nevada, applied for Government assistance in a $20,000.00 program under the Defense Minerals Exploration Administration, docket DMEA-4814, to explore for uranium on the Rainbow and Cord group of claims, Nye County, Nevada.

A field examination was requested by the Operating Committee, and was made by H. W. Jones, U. S. Bureau of Mines, and R. H. Campbell, U. S. Geological Survey, on October 15 and 16, 1957, accompanied in part by Mr. Kohlmoos.

The anomalies of the area were checked with a Detectron DG-2 geiger counter. The applicant's workings were mapped and six samples were taken from the exposures.

CONCLUSIONS AND RECOMMENDATIONS

The uranium deposit at the Rainbow No. 1 claim contains secondary uranium minerals in fractures in a clay shale bed. Locally the uranium minerals are associated with individual beds of clay shale and apparently form bedded deposits. On a larger scale, however, the exposures are inadequate to determine whether concentrations of uranium are associated with individual stratigraphic horizons, with the possible buried continuation of an altered granitic

dike, or if the deposits are related to the present topographic surface. The indicated reserves are 150 tons of uranium ore averaging about 0.20 percent U_3O_8, but there is a reasonable probability that a few hundred tons of inferred ore of the same grade may be found by a modest program of bulldozing in the small area between the Rainbow No. 1 prospect shaft and the Rainbow No. 1 adit. Significant reserves additional to those indicated and inferred for the small area in the vicinity of the Rainbow No. 1 adit may be inferred in possible hidden ore bodies in the general area. The disequilibrium between equivalent and chemical uranium in assays of many samples taken from the area, suggests that even near-surface ore deposits might be overlooked in cursory examinations with radioactivity-detecting apparatus.

Although favorable indications continue westward from the Rainbow No. 1 shaft, DMEA participation in exploration in that area is precluded by its proximity to claims controlled by persons other than the applicant.

We recommend approval of DMEA participation in a two-stage exploration program estimated to cost $4,937.75.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Rainbow and Cord claims are in sec. 3, T. 12 N., R. 45 E., M.D.B.&M., approximately, (unsurveyed), Northumberland mining district, Nye County, Nevada (fig. 1). They extend along the summit and on both flanks of the north-trending Toquima Range at an altitude of 8,000 to 8,500 feet.

The mine, located about 40 miles (airline) southeast of Austin, is reached by travelling 12 miles east along U. S. Highway 50 to its juncture with Nevada State Highway 8-A. From this point take an improved gravel road southeasterly for 29 miles across Great Smokey Valley and the Toquima Range into the adjoining Monitor Valley and past the Monitor Valley ranch. Continue on the right road fork down Monitor Valley for 14.6 miles, then west 6.4 miles up a canyon to a large tailings pond. Proceed around the pond and over the mountain divide via rough road 3.0 miles to a small shaft and bulldozed area. From this point the Rainbow No. 1 claim is about 400 yards due east up the ridge. The property is accessible to pick-up trucks and four-wheel-drive vehicles during summer months but deep snows generally prohibit access from December through April.

Experienced miners can be obtained from the mining towns of Austin and Tonopah. A few houses are available three miles northeast at the Northumberland mine camp.

Water must be hauled from a small spring at Northumberland. Power must be generated locally. Some supplies and materials are available in Austin and Tonopah, however Reno, Nevada, 179 miles west of Austin, is the major supply source for the district. The nearest railroad siding is at Battle Mountain, 155 miles north of the mine.

HISTORY, PROPERTY, AND OWNERSHIP

The property was staked by the present owners during the summer of 1955 after an anomaly map of the area was published by the U. S. Atomic Energy Commission. There has been no production of uranium ore from the property or elsewhere in the district.

The property consists of 19 unpatented lode claims (fig. 2) held by right of location by William B. Kohlmoos, P. O. Box 4, Ely, Nevada (partner), and Ted Corder, 1329 Main Street, Susanville, California (partner). The claims are recorded at the Nye County courthouse, Tonopah, Nevada, as follows:

Claim name	Book	Page
Rainbow No. 1	6	150
Rainbow No. 2	6	151
Rainbow No. 3	6	152
Rainbow No. 4	6	153
Rainbow No. 5	6	154
Rainbow No. 6	6	155
Rainbow No. 7	6	156
Rainbow No. 8	6	157
Rainbow No. 9	6	158
Rainbow No. 10	6	159
Rainbow No. 11	6	160
Rainbow No. 12	6	161
Rainbow No. 20	13	389
Cord	6	171
Cord No. 1	13	383
Cord No. 2	13	384
Cord No. 3	13	385
Cord No. 4	13	386
Cord No. 5	13	387

All claims listed are to be included in the project.

DEVELOPMENT

The Rainbow No. 1 claim is explored by a small shaft about 16 feet deep, a short adit about 12 feet long, and three shallow bulldozed cuts. An area around the adit was stripped of overburden to a shallow depth (fig. 3). Additional bulldozer cuts were dug for assessment work on other claims in the group. There are no surface installations or machinery on the property.

GEOLOGIC SETTING

The Rainbow and Cord claims are in an area of generally high relief but sparse outcrops. The bedrock is chiefly clay shale with a few interbedded thin chert beds, and cherty siliceous shale with minor

amounts of interbedded clay shale. A few small dikes of altered granite cut the sedimentary rocks and a small stock of granite crops out approximately one-half mile north of the Cord claim. The sedimentary rocks have been tilted and are locally folded and intensely fractured. They are locally altered, probably by hydrothermal action, possibly related to the alteration of the granitic dikes. A steep north-trending fault of considerable displacement is inferred at the unconformable contact of the two principal sedimentary rock types. It divides the prospected area (fig. 3) so that approximately half of it is underlain by clay shale on the west and half is underlain by siliceous shale on the east.

Both the clay shale and siliceous shale units cover extensive areas and each probably represents a thickness of several hundred feet of sedimentary beds. The siliceous shale unit may have been formed by extensive silicification of clay shale and may be in part equivalent to the clay shale beds west of the fault. Where exposed on the Rainbow No. 1 claim, the tan clay shale is highly contorted, but a generalized strike and dip of about N. 60° W. and 30° to 40° S. conforms with the attitude of beds exposed in the Valley View claim to the west. Lithologically similar shales exposed in the Jane claim a few hundred

yards to the north contain graptolites of probable Silurian age.

At the Rainbow No. 1 claim the north-trending fault contact cuts a west-trending ridge approximately 60 feet to the east of both the prospect shaft and adit. East of the fault the bedrock is not exposed and the structure and lithology are not known in detail; however the float contains abundant fragments of thin-bedded siliceous shale with a coincident slope break on the ridge crest. Bedrock is not exposed on the ridge except in the prospect cuts, shafts, pits, and adits. A blanket of soil and colluvium covers the bedrock to depths ranging from a few inches to a few feet. The weathered sub-soil bedrock is generally loose and highly fractured and much of it can probably be moved easily without blasting.

ORE DEPOSITS

Yellow and greenish-yellow secondary uranium minerals occur as fracture coatings in clay shale in the vicinity of the Rainbow No. 1 adit. Abundant visible secondary uranium minerals are associated with relatively low abnormal radioactivity. The Atomic Energy Commission has identified phosphuranylite as the most abundant mineral with minor amounts of meta-autunite. Samples taken by the applicant and the examiners indicate that the uranium is out of equilibrium with its radioactive distintegration products and the relative proportion of disintegration products is considerably lower than that required for equilibrium. Because of the relatively low radioactivity, and the

relatively weak fluorescence of phosphuranylite, criteria for the identification of ore are poor, and except where the colorful secondary uranium minerals are visibly abundant, the grade of the ore cannot be determined without chemical analysis.

Low abnormal radioactivity, up to 0.1 milliroentgens per hour, is present in many of the discovery pits and prospects in the surrounding claims. The highest radioactivity, however, 1.5 milliroentgens per hour, occurs in association with abundant visible secondary uranium minerals in the vicinity of the adit on the Rainbow No. 1 claim. At the adit and in cuts in its immediate vicinity, secondary uranium minerals are locally abundant. On the right rib of the adit and to the east of its portal abnormal radioactivity is associated with visible secondary uranium minerals, probably chiefly meta-autunite, in fractures in a thin chert bed interbedded in clay shale, and also coating fractures in the clay shale adjacent to the chert in a stratigraphic zone 6 inches to a foot thick.

A sample of this material contained 0.11 percent eU_3O_8 and 0.19 percent cU_3O_8. In cuts to the west of the fault exposed in the face of the adit, abundant fracture coatings of phosphuranylite occur in a contorted bed of clay shale one- and one-half to two feet thick. The stratigraphic horizon in which the ore minerals are most abundant has

no obvious lithologic variation from the beds above or below it. Although the radioactivity of this ore zone is above background it is generally low, averaging approximately 0.5 milliroentgens per hour and ranging up to 1.5 milliroentgens per hour in a small area. Visual estimates, however, indicate that from 0.25 to 1 percent of the material in the ore zone is phosphuranylite, and samples show 0.22 and 0.13 percent eU_3O_8 and 0.19 percent cU_3O_8 respectively. Allowing for the fact that it follows contortions of the sedimentary beds, the ore zone is exposed for a length of as much as 30 feet.

Low abnormal radioactivity is found in several pits to the west of the Rainbow No. 1 shaft, in a roughly west-trending line near the crest of the ridge. Most of these exposures are on the Valley View claim belonging to "Rocky" Wilson, including Wilson's Valley View shaft in which abundant fluorescense is apparently associated with uraniferous hyalite in chert beds. The line of pits approximates the trace of the bedding as projected from the scattered bedrock exposures. Although no ore grade material is exposed, it is possible that ore occurs in one or more stratigraphic horizons along this trace. The line of pits also follows, approximately, the projection of an altered granite dike exposed in the Valley View adit. Although the dike is not exposed in cuts near the Valley View shaft nor further east along the ridge crest, a

continuation of the dike at depth or of the fracture along which it was intruded might be associated with the line of anomalies.

The disequilibrium between uranium and its radioactive daughter products indicates that the presently visible uranium minerals were deposited in the geologically recent past. Although the ore zone locally follows stratigraphic horizons, in this area those horizons are relatively near the surface of the ground and are approximately parallel to it, and it seems possible that deposition was effected by evaporation of water near the topographic surface from mineralizing solutions at or near the top of a former water table. The apparent control by stratigraphic horizons in the vicinity of the Rainbow No. 1 adit may be a local feature in this area where the bedding is nearly parallel to the topographic surface. The mineralizing solutions may have been associated with hot spring activity of the recent geologic past evidenced by nearby small deposits of tufa. Until the habit of the ore body is better known little can be done to project the outer limits of the ore body and to estimate its maximum size and uniformity of grade. The present showings may be the result of reworking of some sort of primary deposit. Such a primary deposit might be inferred to be a large area of low-grade material or to be a

relatively small high-grade primary deposit, either of which could possibly be a significant exploration target if evidence indicating its location, size, and grade could be found.

Several pits on other claims in the area show low abnormal radioactivity, up to 0.1 milliroentgens per hour. As the radioactivity of the ore appears to be an inadequate method of estimating grade, it is impossible to evaluate areas of low abnormal radioactivity of approximately 0.1 milliroentgens per hour where no uranium minerals have been observed without extensive sampling and chemical assays. In view of the low radioactivity of areas containing visible uranium minerals, however, it seems possible that one or more of these low anomalies might lead to the discovery of additional ore bodies.

SAMPLING

Six samples were taken of the most highly radioactive material exposed. The locations of these samples are shown on figure 3.

Sample No.	Thickness, feet	Percent eU_3O_8	Percent cU_3O_8	Percent V_2O_5	Percent Cu	Percent P
520	2.6	0.11	0.19	0.09	0.03	--
521	3.0	0.22	0.32	0.10	0.02	--
522	1.5	0.03	0.09	0.09	0.02	--
523	4.0 vert.	0.01	0.09	0.14	0.03	--
524	4.0 vert.	0.01	0.07	0.11	0.01	--
*521A	Specimen	0.13	0.18	0.08	0.07	0.46

*Specimen containing yellow uranium mineral, tentatively identified as phosphuranylite.

Two samples taken by the A.E.C. representatives assayed as follows:

2123	3.0	0.10	Chip sample in pit.
2124	3.0	0.05	Chip sample, face adit.

The applicant, by letter dated October 18, 1957, submitted an assay of a red clay substance taken from the adit face showing 0.19 percent eU_3O_8 and 0.25 percent cU_3O_8.

ORE RESERVES

There are no measured reserves in the Rainbow No. 1 area. Of the ore body exposed in cuts to the west of the portal of the adit approximately 150 tons of material estimated to average 0.20 percent U_3O_8 is indicated, assuming that ore continues westward into the hillside for a width of 30 feet. A few tens of tons additional ore may be inferred in small areas such as that on the west side of the adit and in other areas of low abnormal radioactivity on the Rainbow No. 1

claim. Because the ore zone west of the adit portal is generally 2 feet thick or less, the ore would probably have to be selectively mined or hand-sorted. Sorting or selective mining will be difficult because of the disequilibrium but it may be aided by recognition of the visible uranium minerals.

The possibilities for an appreciably larger tonnage than that inferred are fair, but until the habit of the ore body is determined, it is impossible to evaluate the maximum potential of the geologic setting. The many scattered showings of low abnormal radioactivity suggest that concentrations of uranium are present over a relatively large area (about 30 claims). This, coupled with demonstrated disequilibrium, suggests that such low anomalies may indicate uraniferous material near ore grade, or even low-grade ore. In addition, exposures of ore-grade material at the Rainbow No. 1 adit indicate that ore-grade concentrations may be found locally. It is not unreasonable to infer, therefore, that one or more hidden ore bodies of significant size and grade are present in the area.

EXPLORATION

The applicant submitted a relatively vague exploration program consisting of bulldozing, drilling, and possible drifting and shaft sinking at a total cost of $20,000. He is willing, however, (see letter

to Mr. Ricker, dated October 18, 1957, from Mr. Kohlmoos) to undertake a less ambitious program essentially restricted to bulldozing on the surface. The small size of the exploration target indicated by the present exposures does not warrant such an ambitious program as the applicant proposed. Moreover, the lack of detailed information on the habit of the ore body makes it difficult to delineate an exploration target amenable to physical exploration by drilling or underground work. It is possible, however, that a two-stage program consisting of bulldozing, stripping the thin overburden from the bedrock, trenching to depths of a few feet into the bedrock by bulldozer, and sinking shallow prospect shafts would disclose continuations of the ore zone presently exposed and at the same time give valuable information on the habit of the ore body. Stage I should consist of bulldozer trenches approximately as indicated on figure 3. Three trenches totalling 400 linear feet should be sufficient to outline immediate continuations of the ore zone exposed at the Rainbow No. 1 adit. The trenches should be cut to a depth of 2 feet into the fractured shale bedrock in order to expose the bedrock structure. Additional deepening may be necessary locally to attain the depth of the ore-bearing horizon. The depth of the trenches would probably average 10 feet. An additional 100 feet of trenching should be made available, subject to the prior

approval of the Government, in order to explore possible continuations of leads exposed in the proposed trenches and to crosscut between the proposed trenches in areas where showings of ore indicate that such crosscutting would be of value.

Stage II should consist of two shallow shafts, each approximately 25 feet deep, at favorable sites within the trenches at locations subject to the prior approval of the Government.

Although additional bulldozing on the ridge crest to the west of the Rainbow No. 1 might be desirable, it would not be practical under the DMEA program as most of it would be within 200 feet of the western edge of the Kohlmoos property.

EXPLORATION COSTS

The work starting date would be delayed until about May 1, due to snow, and could be completed in about three months. The applicant will provide supervision, map and sample the trenches.

Stage I Surface trenching 500 linear feet of trenches, average depth 10 feet, and estimated volume of excavation 2,600 cubic yards. Estimated time to complete trenches two weeks maximum.

(1) Independent Contracts

(a) Move bulldozer in and out of project area--$100.00 each way $200.00

(b) Surface trenching, D-8 bulldozer or equivalent with ripper, 52 hrs. @ $16.00/hr. . . . 832.00

(2) Supervision

Supervisor, 1/2 mo. @ $600.00/mo. 300.00

(3) Operating Materials and Supplies

None

(4) Operating Equipment -- independent contract

None

(7) Miscellaneous

20 samples (to be analyzed chemically for uranium content) @ $10.00/ea. . . . . ~~200.00~~ 100.00 Misc

See Memo F.T. 1-15-59 / 5.00

Estimated total cost of Stage I $1,632.00

Stage II Subject to the prior approval of the Government, sink two shallow shafts, each 4 feet by 7 feet in rock section and approximately 25 feet deep. Estimated two months completion time, or 1.0 ft./shift.

(1) Independent Contracts

None

(2) Labor and Supervision

Supervisor, also working as miner, 2 mos. @ $600.00/mo. $1,200.00

Helper (5-day week) 2 mos. @ $18.00/day 774.00

Total Labor and Supervision $1,974.00

(3) Operating Materials and Supplies

Explosives, 50 ft. @ $2.60/ft.	$130.00	
Fuel, 50 ft. @ $1.40/ft.	70.00	
Drill steel and bits, 50 ft. @ $1.20/ft.	60.00	
Oil and grease, 50 ft. @ $0.50/ft.	25.00	
Msc. hand tools and supplies, 50 ft. @ $1.00/ft.	50.00	
Timber sets and lagging (as required), 50 ft. @ $7.00/ft.	350.00	
Total Operating Materials and Supplies.		$685.00

(4) Operating Equipment

Portable compressor, jackhammer, and accessories (to be furnished by operator on a rental basis), 2 mos. @ ~~$175.00~~/mo. $150.00		300.00 ?

(5) Initial Rehabilitation and Repairs

None

(6) New Buildings, Improvements, etc.

None

(7) Miscellaneous

20 samples (to be analyzed for uranium content) ~~@ $10.00~~/ea. see Memo RTI-15-58 - 5.00	100.00 Misc ~~$200.00~~	
Payroll taxes, insurance, etc., 12.5 percent of $1,974.00	246.75	
Total miscellaneous costs, Stage II.		446.75
Total estimated cost of Stage II		$3,405.75
Total estimated cost of the project		$4,937.75
Government participation at 75 percent		$3,703.31

$32055.75 / 50 ft. = $641.12

Shafting sinking (incl timbering)
" Timbering see II. Exp II 1-23-58 $64.12/ft.
9.70

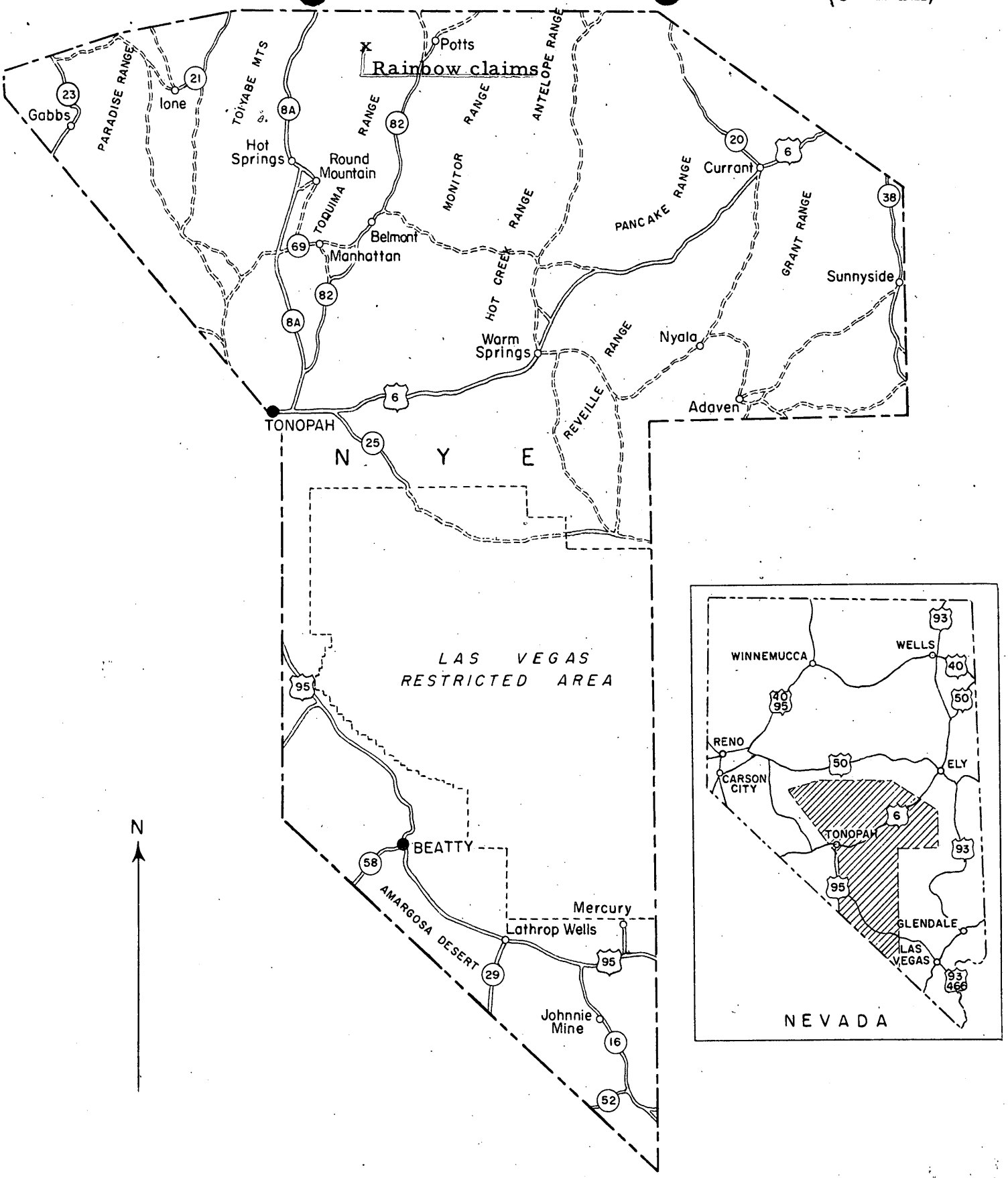

Figure I. INDEX MAP OF NYE COUNTY, NEVADA

0 25 50 75 Miles

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DMEA
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DATE	INITIALS	CODE

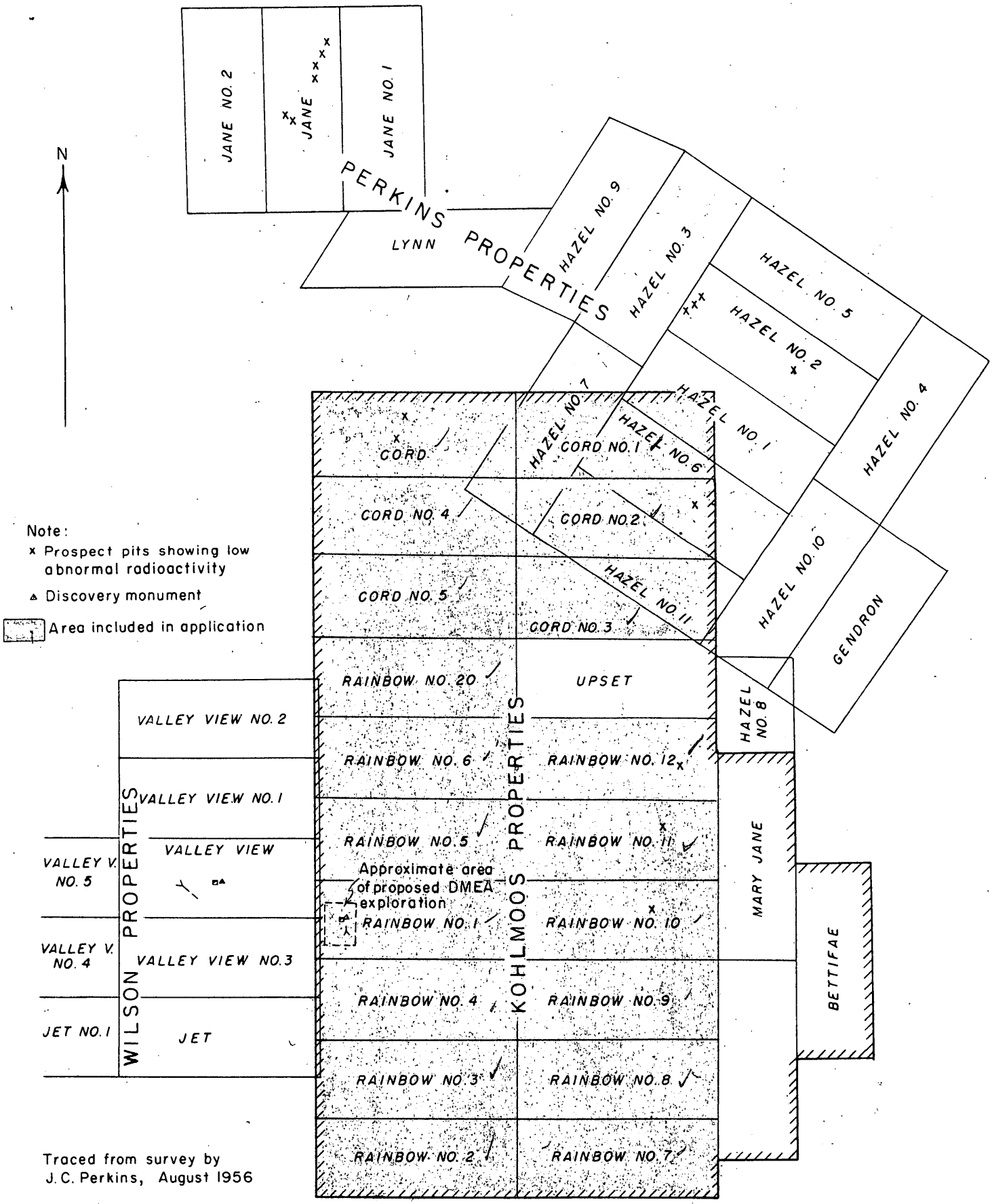

Figure 2. CLAIM MAP, RAINBOW AND CORD CLAIMS, NYE COUNTY, NEVADA

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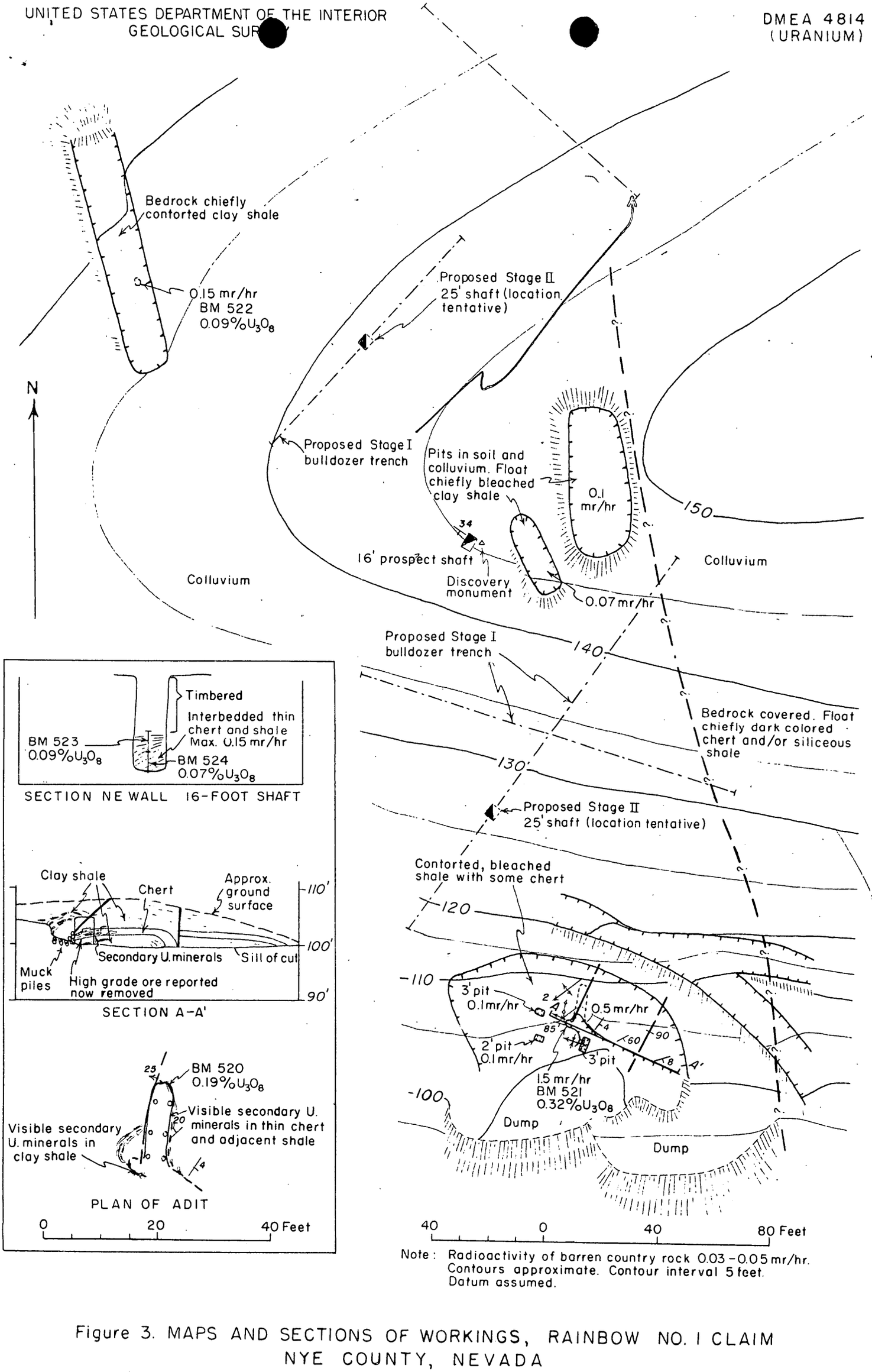
DMEA
RECEIVED DEC 24 1957

DATE	INITIALS	CODE



Note: Radioactivity of barren country rock 0.03-0.05 mr/hr. Contours approximate. Contour interval 5 feet. Datum assumed.

Figure 3. MAPS AND SECTIONS OF WORKINGS, RAINBOW NO. 1 CLAIM NYE COUNTY, NEVADA

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DATE	INITIALS	CODE

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/20	Knouse	700
9/20	Ellis	700
9/22	GCS	130
9/20	Johnson	110
9/23	B	220
		700

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

SEP 20 1957

Re: Docket No. DMEA-4814 (Uranium)
William Brandt Kohlmoos, et al.
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ricker:

The captioned application is referred to Region II Field Team for investigation, a field examination if deemed advisable, and recommendations. You will note from our letter to the Applicant, of even date, that we have requested that copies of drilling bids should be forwarded to you.

Enclosed are copies of memoranda, dated August 22 and September 17, from W. P. Williams, USGS, and dated August 20, 1957 from James Paone, USBM, relating to the proposed project. Also enclosed, for the use of the Field Team, are one extra copy of the application and two copies of the Applicant's letter, dated September 10, 1957, with two sketches.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

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

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

FLKnouse/izm 9-20-57
cc: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/20	Eugene	700
9/20	Elly	700
9/20	Selfridge	130
		110
9/20	Yopes	130
9/20	Nelson	130
9/23	B	220
		700
	(Uranium)	

SEP 20 1957

Mr. William B. Kohlmoos
William Brandt Kohlmoos, et al.
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Kohlmoos:

This will acknowledge receipt of your letter, dated September 10, 1957, enclosing four sketches. The application for assistance in exploring your property has been referred to:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

With regard to the questions raised in your letter, there are enclosed (1) a "Question and Answers" booklet, and (2) DMEA Order - 1 and Amendment thereto, that will, I believe, answer your questions.

Before an application is submitted, the Applicant is required to do the necessary prospecting to look for a suitable target, and as a basis of the work submit an explicit statement of the proposed exploration work. Therefore, the Defense Minerals Exploration Administration will not contribute to the cost of employing a consulting geologist to examine a property and make specific recommendations to explore a property.

In your application you state bids are being requested for the proposed drilling and hole logging, and will be submitted. Since these bids have not been received, you should obtain (four copies each of) bids from three drilling contractors for the drilling you propose to do. Two copies of each of these bids should be forwarded to Mr. Ricker at the above address and two copies each sent to this office.

8623

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

Frank E. Johnson
(by ds)
Acting Administrator

Enclosures

FLKnouse/izm 9-20-57
cc: Mr. Knouse
Admr.'s Reading File
DMEA FT Reg. II (2)

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

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 19 1957

IN REPLY REFER TO

DATE	INITIALS	CODE
9/19	B	220
11	[illegible]	700

Memorandum

September 17, 1957

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

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

Subject: Review of new information from Applicant, DMEA 4814 (uranium), W. B. Kohlmoos, Rainbow claims, Nye County, Nevada.

The subject application, dated July 10, 1957, was incomplete in that it contained no definite exploration proposal or detailed cost estimates.

On August 26, 1957, the Director, Division of Rare and Miscellaneous Metals, asked the Applicant for supplementary information. The Applicant responded on September 10, 1957; but the new material he has submitted makes little if any improvement in the application.

Since DMEA's request for more information was largely unsuccessful, I doubt that much would be gained by repeating the request. For that reason I recommend that the application be referred to the Field Team. It's probable that the Field Team can determine the Applicant's objectives and the worth of the property through field examination.

W. P. Williams

W. P. Williams

September 10, 1957
P. O. Box 4
Ely, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 12 1957

DATE	INITIALS	CODE
9/12	G	220
"	[illegible]	700

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

Re: Docket No. DMEA-4814 (Uranium)
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Ellis:

I have recieved your letter of August 26, 1957, in which you request certain information appertaining to my application for a DMEA loan.

You requested specifically, a sketch of the workings, proposed work, mineralized exposures, and locations of samples. My application included four copies of such a sketch. I herewith enclose four more copies. As for the exact location of the drill holes, my application stated that I would like the professional advice of a consulting geologist, provision for which geologic study was included in the application, but which drill holes would be located in the vicinity of the the radioactive anomaly on the Rainbow #1 claim. "4. (a) para. 5".

For the sake of expediency I have drawn the probable drill hole locations on the sketches enclosed with this letter.

In my original application, 2. Physical Description, (d), (e), and (f) give the locations of the samples plus a narrative of the mineralized exposure, which you have requested in your letter.

The original application also stated that the bulldozer would be used to widen the existing access road in several places to permit entrance of a drill rig, to level drill sites, and to otherwise prepare for the drilling program.

Your letter also requested detailed costs for the work program, which was also included in the application under 6. Estimate of Costs.

In preparing the original application I consulted a mining engineer and also a geologist, both of whom have examined the property, and neither of whom could offer any further information without making a detailed study.

Am I correct in my interpretation of the Defense Production Act, that the purpose of the DMEA is to encourage exploration

for sources of strategic and critical metals and minerals in those areas where favorable targets appear to exist?

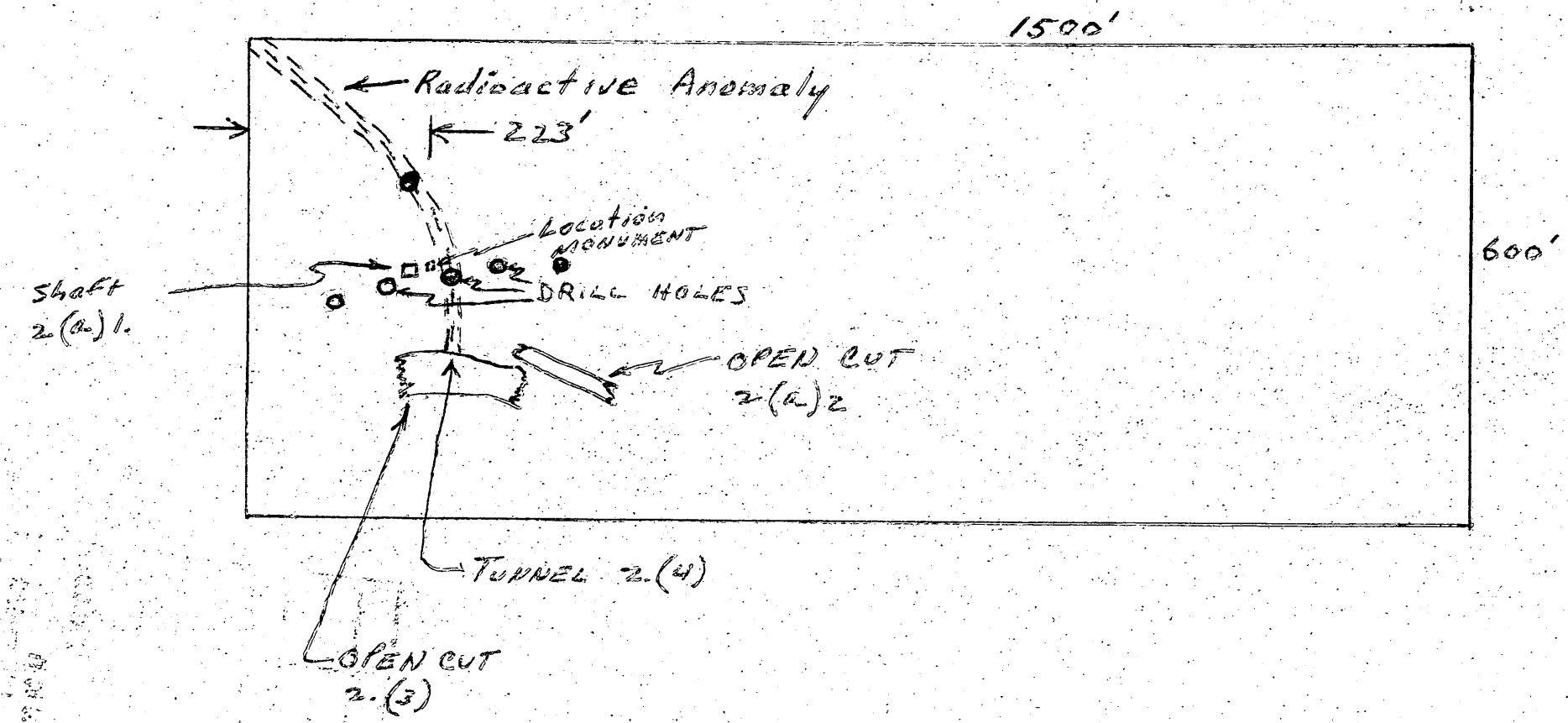
The location included in the application is not a proven mine, but it has been described by numerous officials as one of the very best prospects in Nevada. It has been developed and studied to the point where further surface work would be of no avail. The only logical subsequent development work would be a drilling program, as outlined in the application, and the only possible way the present owners of the claims can proceed with such work is through a DMEA loan.

I would sincerely appreciate hearing from you at an early date.

Yours truly,

W. B. Kohlmoos

W. B. Kohlmoos



W. B. Kohlmoos
P.O. box 4
ELY, NEV.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/26	Knouse	700
8/26	Mittenday	100
8/26	C	220
		700

AUG 26 1957

Mr. W. B. Kohlmoos
William Brandt Kohlmoos, et al.
P. O. Box 4
Ely, Nevada

Re: Docket No. DMEA-4814 (Uranium)
Rainbow and Cord Claims
Nye County, Nevada

Dear Mr. Kohlmoos:

Please furnish the following information so that we may continue to process your application.

In your application you state "The first step in the proposed program is to hire a consulting geologist to study the property and to make a geological map of the claims, together with recommendations on the locations of bulldozed open-cuts and drill sites." In order for us to evaluate the merits of your proposed program, you should submit a detailed description with detailed costs therefor, of the work you propose to do, e.g., drilling, bulldozer cuts, etc. In this connection you should furnish a sketch or map, drawn to scale, that shows (a) location of workings on the property (b) locations and extent of the proposed work and (c) extent of mineralized exposures including locations of samples, indicating sample numbers shown on assay certificates, and radiometric anomalies, all in relation to the claim boundaries. In a narrative you should describe each mineralized exposure and also furnish any additional local geological information as justification for the proposed work.

To speed the processing of your application, you should furnish four copies of the above information.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

FLKnouse/izm
8-23-57
cc to: Mr. Knouse
Admr.'s Reading File
THKiilsgaard, 5224
DMEA FT Reg. 3 (2)

8623

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 23 1957

DATE	INITIALS	
8/23	C	220
8/23	Ellis	700
8-23	Hawise	700
Comments		
	Complete	

IN REPLY REFER TO:

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

Memorandum

August 22, 1957

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

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

Subject: Review of application, DMEA 4814, (uranium and rare earths), W. B. Kohlmoos, Rainbow claims, Nye County, Nevada.

The applicant proposes to explore for uranium ore deposits on a block of 19 contiguous mining claims located in the Northumberland mining district of Nevada.

Past work on the property consists of a shaft 20 feet deep, two trenches, and a 12-foot adit. No ore has been mined on the property.

The applicant's proposed project would consist of geologic mapping, bulldozer trenching, drilling, and possibly drifting and shaft sinking. Total estimated cost of the project would be $20,000.

The applicant appears to be a little premature in his proposal. He states that the final work items and their proportions will depend upon his geologist's findings. It is evident that the applicant has not decided where and how he is going to do his exploration work. He has not submitted a concrete work proposal complete with maps. At present it is not possible to estimate with even fair accuracy what the applicant's vague proposals would cost.

As I have no specific geologic information about the property final evaluation of the application should be obtained through field examination. I would like to suggest, however, that the applicant be asked to indicate definite objectives, to be sought by a concrete exploration proposal.

W. P. Williams

W. P. Williams

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RECEIVED AUG 21 1957

DATE	INITIALS	CODE
8/21	Q	220
"	[illegible]	700
	Konowe	

[illegible]
[illegible]
[illegible]
Washington 25, D. C.

Date August 20, 1957

[illegible] 4814
[illegible]
[illegible] Uranium and Rare earths
[illegible] William Brandt Kohlmoos
[illegible] Rainbow Group
[illegible] Nye County, Nevada
[illegible] $20,000.00

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
From: James Paone, Bureau of Mines Member
Uranium Commodity Committee
Subject: [illegible] Application

1. Date of [illegible] 7/10/57 [illegible] 8/20/57
2. Prior reports on this property [illegible] Yes [ ] No [ ]
4. Prior reports on [illegible] Yes [ ] No [ ]
5. Information available on [illegible] Yes [ ] No [ ]
6. Other [illegible] Yes [ ] No [ ]
7. Explain [illegible] yes [illegible]

8. Factors [illegible]
a. Location [ ]
b. Ownership [ ]
c. Evidence of [illegible] [ ]
d. Geology [ ]
e. Proposed exploration [illegible] [ ]
f. Alternate exploration [illegible] [ ]
g. Costs [ ]
h. [illegible] [ ]

9. Action [illegible]
a. Obtain [illegible] [ ]
b. Refer to Field Team [x]
c. Denial [ ]
d. Agree with [illegible] [ ]
e. [illegible]
f. Discuss [illegible] [ ]
g. Support [illegible] [ ]
h. Request [illegible] [ ]
i. Approval [ ]

10. Remarks (Use back of form if necessary)

From data in the application, the property does not appear to be promising; It is believed the Field Team has information on the subject property which would substantiate a denial.

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

August 19, 1957

William Brandt Kohlmoos
P. O. Box 4
Ely, Nevada

Subject: DMEA 4814

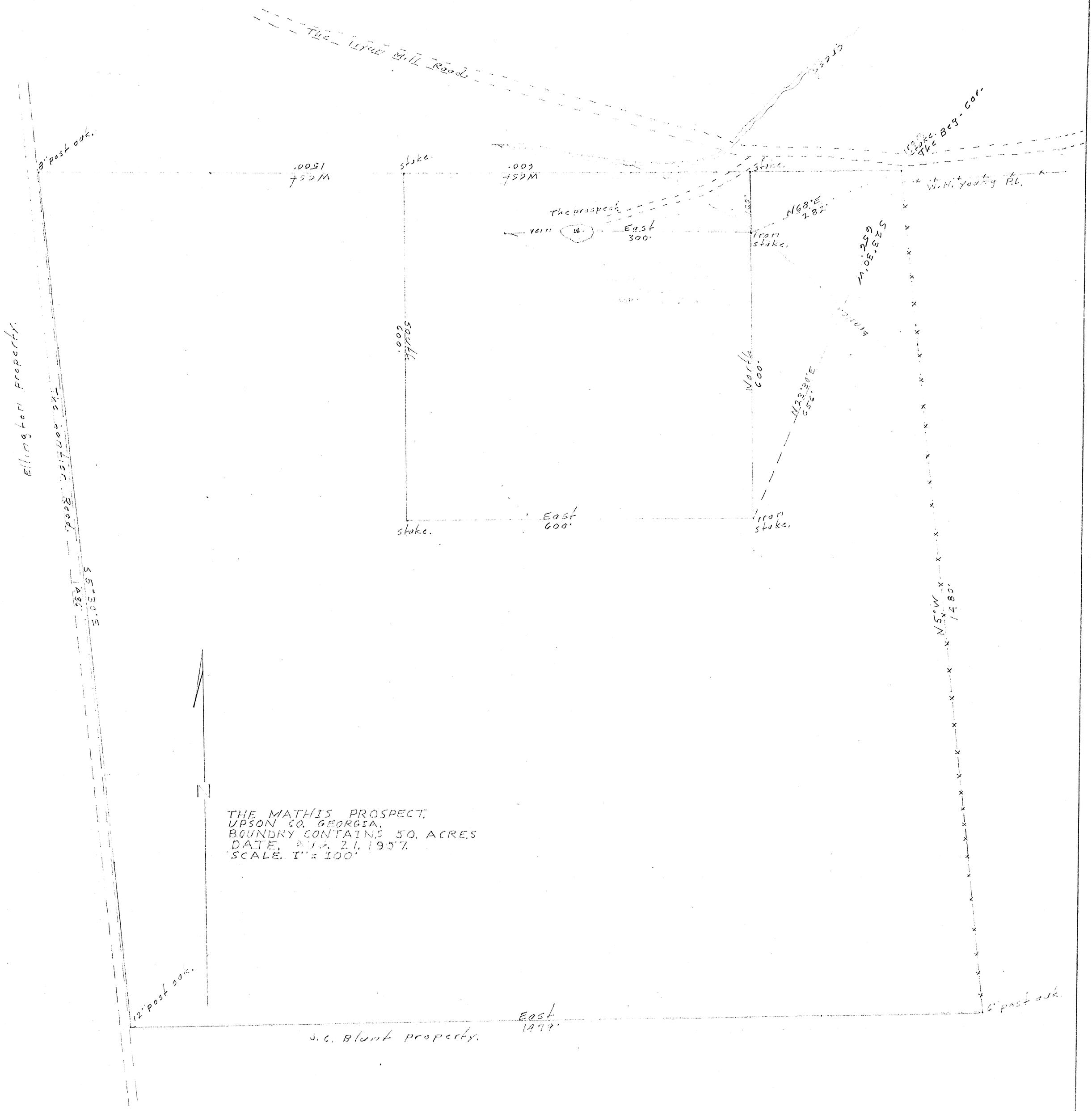
Dear Mr. Kohlmoos,

Your application for exploration assistance, dated July 10, 1957 submitted to our office at Reno, Nevada has been assigned Docket Number 4814 and referred to the Division of Rare & Miscellaneous Metals in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:
Region II


The Lyon Mill Road.
8" post oak.
.0051
752M
stake.
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752M
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Broke. The Beg. Cor.
W. H. Young P.L.
The prospect
vein
East
300.
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N 29°30' E
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.0002
752M
North
600.
N23°30'E
656.
East
600.
stake.
iron
stake.
S5°30'E
1486.
N5°W
1480.
THE MATHIS PROSPECT.
UPSON CO. GEORGIA.
BOUNDRY CONTAINS 50. ACRES
DATE. APR. 21. 1957.
SCALE. 1" = 100'
12" post oak.
East
1477'
6" post oak.
J. C. Blunt property.